

POWER SUPPLY

PREPARATIONS

PLAYBACK MODE

TIME CODE OPERATION

SETUP MENU

OTHERS

DV CAMCORDER

GY-DV550

INSTRUCTIONS



* The illustration shows the GY-DV550 DV Camcorder with the optional lens viewfinder attached.

Thank you for purchasing this JVC product. Before operating this unit, please read the instructions carefully to ensure the best possible performance.

For Customer Use :

Enter below the Serial No. which is located on the body. Retain this information for future reference.

Model No. GY-DV550

Serial No.

This instruction manual is made from 100% recycled paper.

SC96999 (U MODEL)

DV CAMCORDER **DV CAMKORDER CAMESCOPE DV**

GY-DV550

INSTRUCTIONS BEDIENUNGSANLEITUNG MANUEL D'INSTRUCTIONS

INTRODUCTION

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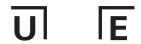


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Thank you for purchasing this JVC product. Before operating this unit, please read the instructions carefully to ensure the best possible performance.

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SC961000 (E MODEL)



(symbol provided by RETAC)

IMPORTANT SAFEGUARDS

- 1. Read all of these instructions.
- 2. Save these instructions for later use.
- 3. All warnings on the product and in the operating instructions should be adhered to.
- Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
 Use a damp cloth for cleaning.
- 5. Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- Do not use this appliance near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 Do not laundry tub, or near a swimming pool, etc.
- Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance.
 - Use only with a cart or stand recommended by the manufacturer, or sold with the appliance. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
 - An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 8. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This appliance
- should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

 9. This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance designed to operate from battery power, refer to the operating instructions.
- 10. This appliance system is equipped with a 3-wire grounding type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
- 11. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it.
- 13. Follow all warnings and instructions marked on the appliance.
- 14. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 15. Never push objects of any kind into this appliance through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
- 16. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17. Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the appliance.
 - c. If the appliance has been exposed to rain or water.
 - d. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.
 - e. If the appliance has been dropped or the cabinet has been damaged.
 - f. When the appliance exhibits a distinct change in performance this indicates a need for service.
- 18. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 19. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.

Thank you for purchasing the JVC GY-DV550 DV Camcorder.

These instructions are for the GY-DV550E.

The instructions are given in three languages: English from page E-2 to E-104, German from page G-2 to G-104, French frompage F-2 to F-104.

This equipment is in conformity with the provisions and protection requirements of the corresponding European Directives. This equipment is designed for professional video appliances and can be used in the following environments:

- residential area (in houses) or rural area
- commercial and light industry; e.g. offices or theatres
- urban outdoors

In order to keep the best performance and furthermore for electromagnetic compatibility we recommend to use cables not exceeding the following length:

Port	Cable	Length	Port	Cable	Length
DC IN AUD IN FROI AUD IN REAF LINE OUT EARPHONE DC OUT GENLOCK/AUX	R Shielded Twist Pair Cable Exclusive Cable Cable with earphone Exclusive Cable IN Coaxial Cable	5 meters 10 meters 10 meters 10 meters 2 meters 1 meter 10 meters	REMOTE MONITOR OUT Y/C OUT DV TC IN TC OUT INTERCOM	Exclusive Cable Coaxial Cable Exclusive Cable Exclusive Cable Coaxial Cable Coaxial Cable Exclusive Cable	5 meters 10 meters 10 meters 4.5 meters 10 meters 10 meters 2 meters
VIDEO OUT	Coaxial Cable	10 meters	PROMPTER OUT VTR/RM	Coaxial Cable Exclusive Cable	10 meters 200 meters MAX

Caution: Where there are strong electromagnetic waves or magnetism, for example near a radio or TV transmitter, transformer, motor, etc., the picture and the sound may be disturbed. In such case, please keep the apparatus away from the sources of the disturbance.

SAFETY PRECAUTIONS

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This unit should be used with 12V DC only.

To prevent electric shocks and fire hazards, do NOT use any other power source.

NOTE

The rating plate (serial number plate) is on the top frame.

CAUTION

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Ce magnétoscope ne doit être utilisé que sur du courant direct en 12V.

ATTENTION:

Afin d'eviter tout resque d'incendie ou d'électrocution, ne pas utillser d'autres sources d'alimentation électrique.

REMARQUE:

La plaque d'identification (numéro de série) se trouve sur le panneau arrière de l'appareil.

WARNING ON LITHIUM BATTERY

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above $100^{\circ}\text{C}~(212^{\circ}\text{F})$ or incinerate.

Replace battery with Matsushita Electric CR2032, use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- . Keep away from children.
- · Do not disassemble and do not dispose of in fire

For Sweden

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt fabrikantens instruktion.

For Norway

ADVARSEL

Lithiumbatteri-Eksplosjonsfare.

Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikantetn.

Brukt batteri returneres apparatieverandøren.

For Denmark

ADVARSELI

Lithiumbatteri–Eksplosionsfare ved fejlagtig handtering. Udskiftning ma kun ske med batteri af samme fabrikat og type. Lever det brugte batteri tilbage til leverandøren.

For Finland

VAROITUS

Paristo voi räjähtää, jos se ön virheellisesti asennettu. Vaihda paristo ainoastaan laltevalmistajan suoaittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.



SAFETY PRECAUTIONS

FOR USA AND CANADA





AUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION FOR USA

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmfull interfrence to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. CAUTION

CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS : (1) THIS DEVICE MAY NOT CAUSE HARMEUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION

INFORMATION (FOR CANADA) RENSEIGNEMENT (POUR CANADA)

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la Class B est conforme à la norme NMB-003 du Canada.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSETHIS APPLIANCETO RAIN OR MOISTURE.

This unit should be used with 12V DC only. CAUTION:

To prevent electric shocks and fire hazards, do NOT use any other power source.

NOTE:

The rating plate (serial number plate) is on the top frame.

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION. NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Ce magnétoscope ne doit être utilisé que sur du courant direct en 12V.

ATTENTION

Afin d'eviter tout resque d'incendie ou d'électrocution. ne pas utillser d'autres sources d'alimentation électrique.

REMARQUE:

La plaque d'identification (numéro de série) se trouve sur le panneau arrière de l'appareil

WARNING ON LITHIUM BATTERY

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat avobe 100°C (212°F) or incinerate

Replace battery with Matsushita Electric CR2032, use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- Keen away from children
- Do not disassemble and do not dispose of in fire.

Thank you for purchasing the DV Camcorder GY-DV550. These instructions are for GY-DV550U.



This unit is a MiniDV video system format camcorder. Videocassettes which are not marked with the MiniDV symbol cannot be used with this unit

The following phenomena may occur when tapes recorded on other units (including another GY-DV550) are recorded or played back on this camcorder.

- The transient section between scenes recorded on other units and those recorded on this unit may appear disturbed.
- Digital noise may appear during playback due to tracking errors

- This unit records and plays back in the SP mode. Recording or playback in the LP mode is not possible.
- Due to manufacturing dispersion of tapes, we recommend not to record pictures within the first 2 to 3 minutes from the beginning of the tape.
- Before recording important scenes, be sure to perform a test recording and confirm that both video and audio are recorded correctly.
- Recorded video and audio contents are for private use. Other use may infringe on the rights of copyright holders.
- JVC cannot assume liabilities that may derive from the impossibility of normal recording or playback of video or audio due to malfunction of the camcorder or the videocassette

MAIN FEATURES

- · Compact, lightweight design Compact and light weight body was realized by use of magnesium die cast
- DV high-quality digital format The 4:1:1 (U MODEL)/4:2:0 (E MODEL), 8-bit, 25 Mbps component digital processing of the format ensures recording and playback with high picture quality.
- · High sound quality thanks to PCM audio Two types of sampling, 16-bit, 48 kHz sampling and 12-bit, 32 kHz sampling, ensure high-quality digital audio.
- 26-pin camera terminal The terminal can be used to connect an external VCR and camera remote control unit. The recording VCR can be selected in the VTR SELECT switch. (Main unit/parallel/external VCR)
- External video input capability External composite video can be recorded with this unit.
- Character mixing capability for monitor output Characters can be mixed for output to the MONITOR OUT connector using menu setting.
- Audio reference recording level selected The audio reference recording level can be set to -20dB or -12dB in the menu.
- Normal/LETTER (16:9) screen switching capability You can switch between 4:3 ratio screen and 16:9 ratio screen in the menu.
- Concentrated LCD display (back-lit)
 The concentrated LCD panel shows the time code and CTL counter, tape remaining time, remaining battery power, audio levels, VCR section setup menus, hour meter data, and a variety of warning indications. The display is back-lit to facilitate viewing in dark locations.
- Time code reader/generator The built-in time code reader/generator can be used to record SMPTE (U MODEL)/EBU (E MODEL) time code and user's
- Time code input/output connectors for slave lock capability This unit can be slave-locked to an external time code generator which is connected to the time code input. The data in the built-in time code generator is output from the time code output terminal
- Built-in monitor loudspeaker for audio checking The input audio can be monitored in recording or EE mode. The playback sound can be monitored in the playback mode. The loudspeaker also outputs an alarm tone in case an abnormal condition occurs in the unit
- Rec check function for convenient recording review
- Camera section designed with 3-CCD system for high-qual-

- Three 1/2" CCDs with 380,000 effective pixels employed. Digital signal processing for reproduction of high-quality picture.
- Super sensitivity F/11, 2000 lux
- Enables shooting at normal indoor illumination eliminating the need for extra illumination.
- LOLUX for 0.75 lux (F1.4) illumination Employment of LOLUX mode ensures +33 dB gain. This is ideal for difficult shooting conditions with almost no illumina-
- Multi-Zone Auto Iris Detection Circuit Multi-zone auto iris detection circuit ensures optimum iris position even in backlit conditions or when a bright subject moves in a frame. Switch provided for selecting over or under level.
- Safety Zone indication in viewfinder Two types of safety zone indicator functions provided. Center mark can be turned ON/OFF
- Zebra pattern video level indication in viewfinder Select video level indicated by zebra pattern by means of menu setting
- Full Auto Shooting (FAS) function Eliminating the need for troublesome switch or filter operations, the FAS function automatically provides a wide range of compatibility with shooting conditions which varies as you move between indoors and outdoors or between bright and dark locations
- Color temperature conversion filters for "3200K", "5600K + 1/8ND", "5600 K + 1/64ND" provided.
- Variable scan shutter
- Eliminates flicker when shooting other screen pictures than NTSC, such as computer monitor screens. Copes with the range from 60.1 Hz to 2084.6 Hz.
- DV (i. LINK) connector
- DV connector (4-pin) provided. Enables transfer of digital data to other equipment provided with DV connector, such as a non-linear editing controller.
- S.S.F. (Super Scene Finder) function Enables memorization of the start point and ending point of each scene or memorization of CUE points
- Camera (Video) output, VCR playback output (composite/ YC) possible
- GENLOCK input connector
- Equipped with remote control system compatible GENLOCK function with SC (Sub Carrier) lock.
- Built-in color bar (SMPTE type) (U MODEL) Built-in colour bar (EBU type) (E MODEL)
- Superior operability with shutter speed and menus selected

3U

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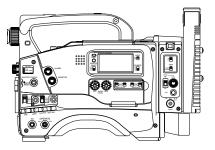
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1-1 Main Unit Configuration

The GY-DV550 configuration is as shown below.







Tripod base

CAUTION:

- The front base mount may be locked while the pin of the tripod base is not inserted into the hole on the rear base mount of the unit. Therefore, after mounting, make sure that these parts are engaged properly.
- When moving the GY-DV550 mounted on a tripod, any impact or vibration should be avoided as this may cause the unit to become detached and to drop from the tripod.
 Be sure to remove the unit from the tripod before transporting it.

6

1. INTRODUCTION

1-2 Precautions for Proper Use

Supply voltage

Make sure that the power is between 11 V and 15 V DC. If the power voltage is too low, abnormal color and increased noise may occur. Do not exceed 15 V DC in any case, or the unit could be damaged.

- · Allowable ambient temperature and humidity Be sure to use the unit within the allowable temperature range of 0°C to 40°C and a relative humidity of 30% to 80%. Using the unit at a temperature or humidity outside the allowable ranges could result not only in malfunction but the impact on the CCD elements could be serious as small white spots may be generated. When storing the GY-DV550 for a long time, the storage temperatures should be -20°C to 60°C.
- · Strong electromagnetic waves or magnetism Noise may appear in the picture or audio and/or the colors may be incorrect if the camera is used near a radio or television transmitting antenna, in places where strong magnetic fields are generated by transformers, motors, etc., or near devices emitting radio waves, such as transceivers or cellular phones.
- Use of wireless microphone near the camera When a wireless microphone or wireless microphone tuner is used near the camera during recording, the tuner could
- · Avoid using or placing the unit in places;
- · subject to extreme heat or cold;
- · with excessive dirt or dust:
- · with high humidity or moisture;
- · subject to smoke or vapour such as near a cooking stove; • subject to strong vibrations or on an unstable surface.
- · also do not leave the unit for long hours in a parked car under direct sunlight or near room heating equipment.
- Protect the unit from being splashed with water (especially when shooting in the rain).
- Protect the unit from being wet when shooting on a beach. In addition, salt and sand may adhere to the camera body. Be sure to clean the camera after use.
- Protect the unit against penetration of dust when using it in a place subject to sandy dust.
- Optical performance of lens

Due to the optical performance of the lens, color divergence phenomena (magnification chromatic aberration) may occur at the periphery of the image. This is not a camera malfunction

- Noise may appear in the viewfinder when switching between the playback picture and the EE picture.
- Setup level

The video signal of the unit's video output is provided with a setup level when shipped from the factory. To turn off setup. set SETUP in the Camera Setup screen to OFF.

- Use the unit in an upright position. If placed on its side, heat release efficiency will deteriorate, adversely affecting the tape transport. Depending on circumstances the tape may also be damaged.
- Vibrations

Colors may fail to appear during VCR playback in locations subjected to vibrations

- Precautions for transportation Do not drop or hit the unit against a hard object.
- Remove the videocassette before transporting the unit.
- . Do not insert an object other than a videocassette in the cassette insertion slot. Be sure to close the cassette cover when the unit is not to be used for a long period
- Do not set the OPERATE switch to OFF or remove the power cable during recording or playback. Otherwise the tape may be damaged.
- The sensitivity level of the provided microphone is set lower than the reference input (- 60 dBs) setting.
- When the unit is not in use, be sure to set the POWER switch to OFF in order to reduce power consumption.
- Cleaning the body: Wipe body with a dry, soft cloth. When it is extremely dirty, soak the cloth in a solution of neutral detergent, wring it out and then wipe. To prevent deformation of the body, etc. and to avoid operation hazards, do not allow volatile liquids such as benzine and thinner to touch the body. and do not wipe it with a cloth soaked in such a liquid.
- The camera may be unstable in the period immediately after the power is turned on, but this is not a malfunction.
- If a tape containing recorded PAL signals is played back, the GY-DV550 automatically enters the STOP mode. If this happens, remove the videocassette so that the unit returns to its normal state
- When turning on the power with the tape inserted or after loading a tape, the built-in head cleaner will emit a sound while operating. However, this is not a malfunction of the unit.

CAUTION:

- Do not point the lens or viewfinder directly at the sun or other strong light source.
- Eye damage could result.
- If the lens or viewfinder is left pointed at the sun, rays may collect inside the unit and cause damage or a fire.
- When carrying the camera, be sure to hold the carrying handle. Holding the lens or viewfinder may result in damage.

1. INTRODUCTION

1-3 Routine and Periodical Maintenance

The GY-DV550 incorporates precision mechanical parts, which will collect dirt, wear out and deteriorate as the unit is used. On the other hand, when the unit has been used for a long period in a normal environment, the heads, drums and tape transport mechanisms also collect dirt deposited on them. Furthermore, dust which penetrates the inside of the VCR section especially during outdoor use will promote the wear and deterioration of mechanical parts by causing poor contact between tape and heads or failing to maintain the video and audio quality at high levels. To prevent wear and deterioration, clean the mechanical parts using a head cleaning tape as routine maintenance. However, cleaning with a head cleaning tape alone is not enough for cleaning the entire tape transport mechanism, it is also recommended to apply periodical maintenance (inspection) to prevent troubles that may be caused by the sudden occurrence of failure. As the replacement, adjustment and servicing of parts require advanced skill and equipment, please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.

Head Cleaning

played back.

• To maintain beautiful pictures and sound, be sure to use a head cleaning tape to clean the head periodically. (Read the "Precautions for Use of Head Cleaning Tape" on page 8.) If head cleaning is not performed periodically, a type of mosaic noise called block noise may appear in the picture or sound may be interrupted





Block Noise

- Use the provided head cleaning tape. Do not use head cleaning tapes other than specified. For instructions on how to use the head cleaning tape and precautions for its use, read the "Precautions for Use of Head Cleaning Tape" on page 8.
- When dirt adheres to the heads of the GY-DV550, the following indications appear during playback and recording check using the RET button on the lens section.
- . "RF" appears on the display panel.
- . "HEAD CLOG" appears on the counter display. . "VTR WARNING (HEAD)" appears in the viewfinder.
- . If this kind of indication appears, please stop the recording. Head cleaning is required. This indicator disappears when the OPERATE is turned OFF, or when the cleaning tape is

OVER CH 2 40 30 20 10 0 dB "HFAD CLOG" indicator

Periodical Maintenance

Contents: Check or replace the following mechanical parts according to the running time.

Running Time	500H	1000 H	1500H	2000H
Drum ass'y (including heads)	0	0	0	•
Head cleaner	☆	•	☆	•
Tape guides & rollers	0	☆	☆	•
Rotary encoder	-	☆	-	•
Belts & gears	☆	•	☆	•
Drive parts	0	0	☆	•

- O: Clean, check and adjust.
- ☆: Clean and check. Replace as required.
- The maintenance contents vary depending on the operating environment and method. Therefore, the above data should be considered as a reference.

Time management

The accumulated running time of the unit can be confirmed with the hour meter display (which shows the accumulated drum running time). For details, see "HOUR METER DISPLAY" on page 102.

For consultations related to the maintenance programming or cost, please contact the person in charge of professional video equipment at your nearest JVC-authorized service agent.

1-4 Precautions for Use of Head Cleaning Tape

Adhere to the following precautions when using the head cleaning tape.

- 1. The tape runs for 10 seconds at a time in the PLAY mode. (The tape stops automatically and then the unit enters the SAVE MODE. However, the display back light is not turned off.) Press the PLAY button after the cleaning tape is fully loaded.
- 2. Do not use the tape more than four times at the most for each cleaning.
- 3. The cleaning tape can be used approximately 100 times
- Use the following chart as a guide for periodical head cleaning.

Operating environment	Low temperature 0°C to 10°C	Room temperature 10°C to 35°C	High temperature 35°C to 40°C
Yardstick for use	1 to 2 times	1 to 2 times	1 to 2 times
of cleaning tape	every 5 hours	every 20 to 30 hours	every 5 hours

- Note 1) When used in a low humidity environment (10% RH to 30% RH), head cleaning should be conducted at intervals half of those given in the above chart.
- Note 2) If an ME80 tape is used immediately after head cleaning, the VTR warning (head) indicator may remain on. In this case, let the tape run as the indicator will turn off after the tape has run for a while.
- Note 3) Use the cleaning tape in the room temperature (10°C to 35°C).
- Note 4) The cleaning tape case contains instructions for use of the cleaning tape. However, some of these instructions differ from the contents of this sheet. When using the cleaning tape, please follow the instructions of this sheet.

For servicing See the service manual of the GY-DV500 (No. 60125) page 2-5, "2.4 MAINTENANCE AND INSPECTION OF MAJOR PARTS".

1. INTRODUCTION

1-5 Videocassette to be Used

 Use JVC's videocassette tapes marked with MiniDV for this unit.

Please use DVM60 or DVM30 type videocassettes.

- Videocassettes cannot be used upside down.
- Avoid storing a videocassette with unevenly wound tape, as this may damage the tape. Rewind it to the beginning before placing a cassette into storage.
- Store videocassettes in a place with little humidity and good ventilation where mould does not form.
- After a videocassette tape has been used repeatedly, it becomes unable to maintain full performance due to an increase in noise caused by dropouts, etc. Do not

continue to use a dirty or damaged tape, as this will reduce the rotary head life.

- Videocassette tapes marked MiniDV are provided with a switch on the back for use in preventing accidental erasure.
- Slide the switch to SAVE to protect the required recording in the tape from being overwritten.
- To record on the tape, slide the switch to REC.



1-6 Battery Pack to be Used

The GY-DV550 can use any of the following battery packs.

- Flat shape type
- Anton-Bauer battery pack: Trimpack 13/14 Series
 Magnum 13/14 Series
 Compack 13/14 Series
 Compack 13/14 Series
 Propack 13/14 Series
 Propack 13/14 Series

To display the remaining battery power accurately, set the VCR Setup Menu item No. 396 BATTERY TYPE according to the type of the battery pack in use. (See page 75)

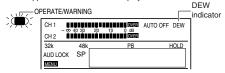
- * An Anton-Bauer battery pack cannot be connected directly to the camera. It is necessary to mount the optional battery holder.
- Battery holder: Anton-Bauer QRQ27
 For details on how to mount the battery holder, see page
 30

1-7 Condensation

- If the unit has been cooled down in a cold place and is then carried to a warm place, the moisture contained in the warm air may adhere to the head drum or tape guides and be cooled into water droplets. This phenomenon is referred to as condensation (dewing). When this occurs, the head drum and tape guides are covered with droplets allowing the tape to be stuck to them, leading to tape damage.
- Condensation occurs in the following cases:
- When the unit is suddenly moved from a cold place to a warm place.
- When a room heater has just started or when the unit is exposed directly to cold air from an air conditioner.
- When the unit is placed in a very humid place.

Do not leave the videocassette inserted when moving the camera under conditions where the temperature environment changes.

 When condensation occurs in this unit, the DEW indicator on the display lights up, and the WARNING LED blinks red. (See page 96) To remedy, leave the unit with the power ON and wait until the WARNING LED stops blinking red and the DEW indicator disappears from the counter display.

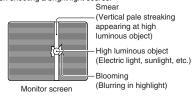


1-8 Characteristic CCD Phenomena

Smear and Blooming

Due to the physical structure of a CCD it is possible to induce vertical streaking (called "smear") when shooting an extremely bright light source. Another effect is the expansion of light around a bright light or object (called "blooming").

The CCD employed in this unit is characterized by inducing very little smear or blooming. Nevertheless, please be careful when shooting a bright light source.



Moire or Aliasing

Shooting stripes or fine patterns may cause a jagged effect or a banding in fine mesh patterns.

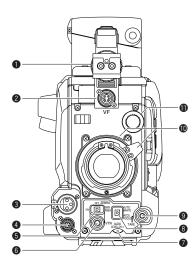
White dots

High temperatures can cause CCD sensor pixels to malfunction with the effect of white dots in the image. This condition is conspicuous especially when gain is applied.

This is a characteristic of the charged-coupled device (CCD). As far as possible, use the unit under conditions where the temperature of the unit does not increase.

2. CONTROLS, INDICATORS AND CONNECTORS

2-1 Front Section



1 Viewfinder mount base, sliding securing ring

Mount the viewfinder on the base and secure it using the sliding securing ring.

See "Attaching the Viewfinder" on page 33.

2 [VF] Viewfinder connector (6-pin)

Connect the cable from the viewfinder here.

[AUDIO IN FRONT] Audio input front connector (XLR 3-pin)

Audio input terminal for connecting camera microphone or external audio devices.

- Set AUDIO IN FRONT LINE/MIC switch (3) on page 23 according to the connecting device.
- When recording audio from this terminal, set CH-1 AUDIO INPUT switch or CH-2 AUDIO INPUT switch to FRONT.

See page 14.



Pin No.	Function
1	GND
2	HOT
3	COLD

-CAUTION:

The provided microphone is a phantom microphone. When using the provided microphone, set AUDIO IN FRONT LINE/MIC switch to MIC+48V ON.

When using audio input device other than a phantom microphone, set AUDIO IN FRONT LINE/MIC switch to LINE or MIC before connecting the device.

[LENS] Lens control connector

Connect 12-pin lens control cable from lens.

[ZEBRA] Switch

When this switch is ON, a zebra pattern is superimposed on the viewfinder areas having video levels with a luminance level of 70% to 80%. This pattern can be used as a reference for manual adjustment of the lens iris.

When CHARACTER MIX of the Camera SETUP Menu screen is set to ON, the zebra pattern will also appear in the MONITOR OUT connector video.

Zebra patterns are also displayed during color bar display.

* The zebra patterns are not generated for the Y/C OUT output

- See "Zebra Pattern Display during Manual Adjustment" on page 87.
- The default value is 70% 80%. The luminance level can be changed with the ZEBRA setting in the VF DISPLAY Menu screen.

See "ZEBRA" item on page 78.

While this switch is pressed to the SKIN AREA side, the color tone areas specified with the SKIN DTL ADJUST item on the ADVANCED PROCESS MENU are indicated in the viewfinder. The switch returns to the OFF position when released.

- See "How to Use Skin Tone Detail" on page 91.
- The Skin Tone Detail color tone areas are not indicated while the VTR playback picture is shown in the viewfinder.

(i) [VTR] VTR trigger button (record start/stop button) Record start/stop can be effected with this button.

(It is interlocked with the VTR trigger button on the lens section.)

② [AUDIO LEVEL CH-1] CH-1 audio input level control

Adjusts the audio input level of the CH1 audio signal. Normally, the camera is used with the control set to the maximum (10) position.

 To use this control, set the VCR Setup Menu item No. 246 CH1 FRONT VR ENABLE to "ENABLE".

-Note:

Even when the VCR Setup Menu item No. 246 is set to DISABLE, the recording level changes slightly when this control is turned.

[AUTO WHITE/ACCU FOCUS] switch

AUTO WHITE:

- First, position a white object to occupy 80% of the centre of the image.
- Setting this switch to the upper position ("AUTO WHITE") will provide automatic adjustment for white balance.
- * It is not activated in preset, full auto shooting, full-time auto white balance and color bar modes.

See "White Balance Adjustment" on page 47. ACCU FOCUS:

 When this switch is set to "ACCU FOCUS" in the lower position, the lens iris will be forced to open for approximately ten seconds.

2-1 Front Section (Cont'd)

. The depth of field can be reduced and the lens focusing can be adjusted more accurately.

CAUTION:

- · As the automatic shutter is activated here, flicker may appear on the screen depending on the lighting conditions (such as a fluorescent lamp, etc.) Colors may appear for white subjects.
- This operation is not possible in the LOLUX mode.

[TAKE] button

The Super Scene Finder (S.S.F.) function retains the time code data for IN point and OUT point or CUE point in the unit's memory.

See "S.S.F. Function" on page 66.

Lens mounting ring/Lens lock lever

Hold the lens and use the lever to turn the ring anticlockwise to release lens

To mount lens make sure the lens guide pin fits well, and then turn the ring clockwise until firm.

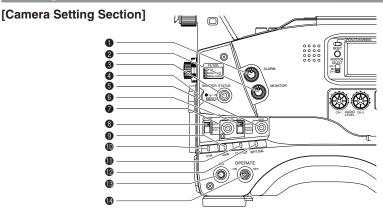
See "Attaching the Zoom Lens" on page 33.

(FILTER) Color temperature conversion filter control knob

This knob changes the internal color temperature filter. See "Camera Settings" on page 44.

2. CONTROLS. INDICATORS AND CONNECTORS

2-2 Right Side Section



● [ALARM] Volume control

Turn to adjust the volume of the alarm tone that is output from the monitoring loudspeaker or earphone in case of a warning or other abnormal condition occurring with the GY-DV550. Turn this control anticlockwise to reduce the volume. Setting this control to the minimum position mutes the alarm tone.

@ [MONITOR] Audio monitor volume control

Adjusts the volume of the monitoring loudspeaker and earphone. The audio is muted when this control is set to the minimum position.

③ [STATUS] Status/menu button

- Pressing this button in the normal screen mode (condition) when menu is not shown) displays a status screen in the viewfinder. The displayed status mode changes each time the button is pressed.
- See "Status Screens" on page 27.
- · Pressing this button for more than 1 second in the normal screen mode displays the Camera Menu screen in the viewfinder. Pressing this button while the menu screen is displayed in the viewfinder makes the menu screen disannear
- See "How to Select from the Camera Menu" on page 77

④ [SHUTTER/MENU] dial

- · Pressing this dial once in the normal screen mode (condition when menu is not shown) displays the shutter speed for approximately 5 seconds. When this dial is turned upwards while the shutter speed is displayed, the shutter speed becomes slower. When turned downwards, the shutter speed becomes faster. The selected shutter speed is memorised for each file. To return the memorised shutter speed to the factory preset, press the dial one more time while the shutter speed is displayed.
- . When this dial is turned upwards or downwards while the menu screen is displayed, the cursor (>) also moves upwards or downwards to allow selection of items in the menu. To change the setting value of the item, press this dial. When the setting value starts blinking, turn this dial upwards or downwards to change the setting.
- See "How to Select from Camera Menu" on page 77.

CAUTION:

Due to the characteristics of the CCD, the screen will appear to be slightly colored when changing the shutter speed greatly. After changing the shutter speed, perform white balance again.

White balance may not work properly for high-speed shutters.

6 [LOLUX] LOLUX On/Off button

This button toggles the LOLUX mode on and off.

- · LOLUX gain gives extremely low light level sensitivity for special applications. This will result in an increase of 33 dB (approximately 45 times) in the LOLUX mode.
- · LOLUX operation takes priority over normal gain setting.
- . If the unit is placed in the LOLUX mode when it is in full auto shooting mode, the auto level control (ALC) (one of the full auto shooting functions) will be made inactive, so that the LOLUX mode is given preference (FAW still remains active).
- See "GAIN BOOST UNDER LOLUX CONDITION" on

6 [BLACK] Black stretch/black compression switch Switches the gain for the dark section of the image.

Set to an appropriate position depending on the video signal to be shot.

: By stretching the signal only for the dark section, contrast in the dark portion of

the image is enhanced.

NORMAL Standard mode. COMPRESS

STRETCH

: When an entire image is relatively light and the contrast is low, the gain of the dark section is compressed to increase the contrast

[FULL AUTO] Full auto shooting ON/OFF button and indicator

- · This switch toggles the full auto shooting function on and
- · The indicator lights when in the full auto mode.
- Full auto shooting combines the auto iris, auto level control (ALC) to automatically adjust the video signal level and the white balance to their optimum levels.

11

2-2 Right Side Section [Cont'd]

- The iris is placed in automatic mode even if the iris mode switch of the lens is in manual.
- The gain will vary continuously to the maximum of +12 dB. The shutter speed will vary continuously to the minimum of 1/240 (U MODEL)/1/200 (E MOD-EL) of a second.
- See "Full Auto Shooting (FAS) function" on page 90.

(3) [AUTO IRIS] Auto iris level switch

This switch selects the automatic iris adjustment reference value according to the condition in which the camera is used.

BACK L: Under back light (Opens the iris more than the standard level. The level of iris can be set in SPOT L/BACK L of the OPERATION MENU screen.) ► See page 79

NORMAL: Normal condition

SPOT L : Under spotlight (Closes the iris more than the standard level. The level of iris can be set in SPOT L/BACK L of the OPERATION MENU screen.) ☞ See page 79

See "SWITCH FUNCTIONS" on page 90.

9 [GAIN] switch

Electronically boosts the light sensitivity when there is insufficient illumination on the subject. The boosting level differs depending on the switch position as follows: (Factory presets)

L: 0 dB (no boosting is applied)

- M: 9 dB (boosted to approximately 3 times the original)
- H : 18 dB (boosted to approximately 8 times the original)
 The boosting level for each switch position can be changed with the OPERATION menu screen. (** See
- page 79.)
 The more the boosting level is increased, the more the resulting image will be noisy.

(IVTR SAVE/STBY) switch

Used to select the status of the GY-DV550 when the power is turned ON and a videocassette is loaded. **STBY:** The GY-DV550 is in the standby mode.

When a recordable videocassette is loaded, the GY-DV550 enters the record-pause mode.

SAVE: The GY-DV550 is in the save mode.

• The status of the GY-DV550 is displayed on the Status screen 1 in the viewfinder.

1 [OUTPUT] Color bar/Camera/Auto knee switch

This switch is used to select the output signal. When the video signal from the shooting camera is selected, the auto knee function is available.

CAM. AUTO KNEE ON:

Outputs the video signal from the shooting camera. In this case mode, the auto knee function is available.

CAM. AUTO KNEE OFF:

Outputs the video signal from the shooting camera. In this mode, the auto knee function is not available

BARS. AUTO KNEE OFF:

Outputs the color bar signal. In this mode, the auto knee function is not available. Set to this position when adjusting the video monitor or when recording the color bar signal.

AUTO KNEE function

When shooting a foreground subject, such as a human being, etc., with a high-brightness background, if the brightness level is set for the foreground subject, the background image will be blurred with white. In such a case, a clearer background is obtained when the auto knee function is used.

It is effective especially in the following cases:

- When shooting a human being indoors with a view to the landscape out through a window.
- When shooting a human being in the shade on a fine day.
- When shooting a high-contrast scene.

- CAUTION:

If a fast moving high-brightness section like a car in sunlight is shot, the auto knee function may change the brightness of the entire image along with the motion of the object. In this case, set the auto knee function to OFF.

(P [WHT.BAL] White balance switch

Three white balance modes are selectable with this switch.

: If white balance is performed with the switch in this position, it will be memorised into B

A : If white balance is performed with the switch in this position, it will be memorised into A

PRST (PRESET): A non-erasable white balance setting at 3200K

 FAW (Full-time Auto White) mode can be set to A, B or PRESET with the OPERATION MENU (see page 79).
 In the FAW mode, video color temperatures are constantly sampled for automatic adjustment to a proper white balance

(B) [NG] button

Pressing this button while recording or in the record-pause mode deletes the S.S.F. data stored in the memory of the GY-DV550 with the S.S.F. (Super Scene Finder) function. This function is only valid in the MARK mode.

See "S.S.F. (Super Scene Finder) FUNCTION" on page 68.

(Page 1987) [OPERATE] switch

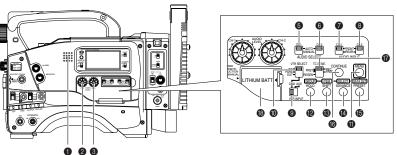
Turn the power ON and OFF with this switch.

 When this switch set to ON while a videocassette is loaded, the GY-DV550 status differs depending on the setting of the VTR (SAVE/STBY) switch ❶.

2. CONTROLS. INDICATORS AND CONNECTORS

2-2 Right Side Section (Cont'd)

[VCR Setting Section]



[Audio setting]

Monitoring loudspeaker

 Enables EE monitoring of the input audio signal during recording, in the record-pause mode or in the stop mode.
 Outputs the playback sound in the playback mode.

The sound to be output can be selected using the MONITOR SELECT switch \odot .

 The loudspeaker volume can be adjusted with the MONITOR volume control @ on page 12.
 The audio from the loudspeaker is not output when an

The audio from the loudspeaker is not output when an earphone is plugged into the EARPHONE jack ② on page 22. The warning alarm tones are also output through this loudspeaker.

See "ALARM INDICATIONS" on pages 96.

② [CH1 AUDIO LEVEL] CH1 audio input level control Adjust the audio input level of the CH1 audio channel with this control.

To use this control, set the CH1 AUDIO SELECT switch
 to "MANUAL".

This control works regardless of the setting of the VCR Setup Menu item No. 246 CH1 FRONT VR ENABLE.

To use this control, set the AUDIO LEVEL CH-1 audio input level control (@ on page 10) on the front section to the maximum (10) position, or set the VCR Setup Menu item No. 246 CH1 FRONT VR ENABLE to "DISABLE".

[CH2 AUDIO LEVEL] CH2 audio input level control
 Adjust the audio input level of the CH2 audio channel with
 this control.

 This control is valid only when the CH2 AUDIO SELECT switch 6 is set to "MANUAL".

MONITOR SELECT] audio monitor selector switch This switch is used to select the monitor sound output from the monitoring loudspeaker or via the EARPHONE jack

② on page 22.

CH-1: The CH1 channel audio is output.

MIX: CH1 and CH2 channel audio are output mixed.

CH-2: The CH2 channel audio is output.

CAUTION:

Make sure to move switches all the way. Do not leave a switch stopped in a midway position. Noise will be generated and operation irregularities will occur.

⑤ [CH-1 AUDIO SELECT] selector switch

This switch is used to select the method for adjusting the audio input level of the CH-1 audio channel.

The reference audio input level to the tape can be set using No. 257 AUDIO REF. SIGNAL LEVEL in the VCR Setup Menu screen (-20dB or -12dB). See page 74

AUTO : The audio input level is held at the reference level even when sounds greater than the reference level are input.

The audio input level does not increase when the input level is low.

MANUAL: The audio input level can be adjusted with the CH-1 AUDIO LEVEL control ❷ or the CH-1 AUDIO LEVEL control ❷ on page 10.

To use the AUDIO LEVEL CH-1 audio input level control on the front section, set the VCR Setup Menu item No. 246 CH1 FRONT VR ENABLE to "FNABI F"

6 [CH-2 AUDIO SELECT] selector switch

This switch is used to select the method for adjusting the audio input level of the CH-2 audio channel.

The reference audio input level to the tape can be set using No. 257 AUDIO REF. SIGNAL LEVEL in the VCR Setup Menu screen (-20dB or -12dB). ☞ See page 74

AUTO : The audio input level is held at the reference level even when sounds greater than the reference level are input.

The audio input level does not increase when the input level is low.

MANUAL: The audio input level can be adjusted with the CH-2 AUDIO LEVEL control ⊚.

7 [CH-1 AUDIO INPUT] selector switch

This switch is used to select the input section of the CH1 audio channel.

FRONT : The sound from the AUDIO IN FRONT connector on the front side section is input.

REAR: The sound from the AUDIO IN REAR connector on the rear side section is input.

3 [CH-2 AUDIO INPUT] selector switch

This switch is used to select the input section of the CH2 audio channel.

FRONT: The sound from the AUDIO IN FRONT connector on the front side section is input.

REAR : The sound from the AUDIO IN REAR connector on the rear side section is input.

2-2 Right Side Section (Cont'd)

[Video setting]

(IVTR INPUT) VTR input setting switch

Select whether to record camera images or composite video from an external device connected to the GENLOCK/AUX IN connector 1 on page 18 with this unit.

CAM: Camera images are recorded

Synchronous signals can be inputted to the GENLOCK/AUX IN connector. Set the VCR Setup Menu item No. 126 INPUT

SELECT to CAMERA. See page 74 AUX: Composite video signals from the GENLOCK/AUX IN connector are recorded. External video signals are also outputted to the viewfinder.

Set the VCR Setup Menu item No. 126 INPUT SELECT to CAMERA. See page 74

- · Camera images are outputted to the VIDEO OUT connector on page 18 and VTR/RM multi-pin connector a on page 21, even with the AUX setting.
- . When setting the VTR/RM switch on page 20 to RM, the GENLOCK/AUX IN connector will be used for synchronous signal input.
- . When AUX is set, GENLOCK is not available for MONITOR OUT and Y/C OUT signals.
- To input the image of the DV connector on page 22, set the VCR Setup Menu item No. 126 INPUT SELECT to IEEE 1394. See page 74

(IVTR SELECT) VTR setting switch

Select whether to use this unit or an external VCR connected to the VTR/RM multi-pin connector of page 21 for recording. This switch is enabled only when [VTR INPUT] switch 9 is set to CAM.

INT: This unit is used to record.

PARA: This unit and external VCR are used to record.

EXIT: Only the external VCR is used to record. Recording on the external VCR can be started and stopped by using the VCR start button on this unit.

[VCR menu/Time date setting]

1 [MENU] button

Press this button to enter the VCR setup menu mode. When the VCR setup menu mode is engaged, the "MENU" indicator in the LCD display lights and the counter display and viewfinder display are changed to the menu indication. In the VCR setup menu mode, pressing this button resumes the normal mode.

● [HOLD/GROUP] button

- Press this button when presetting the time code or user's bit. The presently displayed data is held (the "HOLD" indicator lights on the display) and the leftmost digit of the counter blinks. Pressing this button during presetting of time code or user's bit cancels the operation and recalls the previous display contents.
- · In setup menu mode, this button is used to select the menu group.

⑤ [SHIFT/ITEM] button

- During presetting of time code or user's bit, press this button to select the digit to be set. Each press of the button shifts the digit to be set (which blinks) to the right.
- . In setup menu mode, this button is used to select the menu item.

([ADVANCE/SELECT] button

- During presetting of time code or user's bit, press to select the value of the digit to be set. Each press of the button increases the number by 1.
- . In setup menu mode, this button is used to select the value of a menu item.

(FRESET/DATA SET) button

- During presetting of time code or user's bit, press to save the set value in the preset memory. The set time code or user's bit will be preset in the time code generator.
- · In setup menu mode, this button is used to confirm the menu item setting and save the data in the memory.
- · For details of the presetting of time code or user's bit, see page 63.
- · For details on the setup menus, see page 73.

(CONTINUE) button

If this button is pressed simultaneously with the LOG button 8 on page 19 during the stop mode, the tape winds to the last S.S.F. data OUT point.

See "About the Scene End Cue Up Function" on page

TIME CODE GENERATOR setting switches

(TC GENE) time code generator setting switch

Preset mode/regeneration mode setting switch for the time code generator. In addition the switch is used to select the time code run mode when in the preset mode. In the S.S.F. mode, time code generator will change to the regeneration mode.

REC : Preset mode. Set to this position when newly presetting and recording the time code. The time code mode of the time code generator will be in the REC run mode (time code runs only during recording)

> This position allows you to record continuous time codes when recording scenes one after another.

FREE: Preset mode. Set to this position when newly presetting and recording the time code. The time code mode of the time code generator will be in the FREE run mode (time code runs permanently). Select this setting when the unit should be slavelocked with an external time code generator.

* If this position is used when recording scenes one after another, the time codes become discontinuous at the change points between scenes.

REGEN: Regeneration mode, in which the unit reads existing time codes on the tape and records time codes in continuation of the existing ones. Set to this position when you want to add additional time codes to time codes already recorded on the

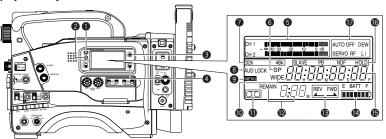
Lithium Battery Installation Compartment

Install a lithium battery (CR2032) in this compartment. The battery is used for the backup of the time code and time date. The GY-DV550 delivered without the battery installed. The provided lithium battery is for test use. It is recommended to install a new lithium battery. A new lithium battery can power the backup for about one year. See "How to Replace Backup Lithium Batteries" on page 36.

2. CONTROLS. INDICATORS AND CONNECTORS

2-2 Right Side Section (Cont'd)

[VCR Display Section]



1 [OPERATE/WARNING] indicator

Normally lights green.

Lights orange during the VTR SAVE (tape protect) mode. This indicator lights or blinks in red in the case of a warning condition related to the remaining tape time, remaining battery power or other abnormal condition in the unit. For details, see "ALARM INDICATIONS" on pages 96.

@ [RESET] button

- Press to reset the CTL counter value.
- * Pressing the button during presetting of time code or user's bit resets the time code or user's bit data to "00:00:00:00".

[LIGHT] switch

Turns the illumination of the back-lit display ON or OFF. ON: The display is illuminated.

OFF: The display is not illuminated.

(Keep this switch at OFF during battery operation of the GY-DV550 or when it is required to reduce the power consumption for some reason.)

4 [COUNTER] switch

Selects the contents displayed on the LCD counter display. The displayed contents when TC or UB is set can be selected using the VCR Setup Menu item No. 516 DISPLAY

CTL : Set to this position to display the CTL counter.

TC : Set to this position to display time codes or for presetting the time code. (When the Menu item No. 516 DISPLAY SELECT is set to "TC")

Time (Hour, Min., Sec.) is displayed, (When the Menu item No. 516 DISPLAY SELECT is set to "CLOCK")

UB : Set to this position to display the user's bits of time codes or presetting the user's bit. (When the Menu item No. 516 DISPLAY SELECT is set to "TC") Date (Day, month, year) is displayed. (When the Menu item No. 516 DISPLAY SELECT is set to "CLOCK")

See "VCR Setup Menu Contents" on page 75.

Audio level meters

Show the audio input level of the CH-1 and CH-2 channels in the record mode or EE mode.

In the playback mode, the meters show the playback audio level

"OVER" lights in case of excessive input.

The reference recording level to the tape can be set using No. 257 AUDIO REF. SIGNAL LEV in the VCR Setup Menu screen (-20dB or -12dB). See page 74

CAUTION:

Immediately after the power is switched ON, the level meters may fluctuate. This is not a malfunction.

SP indicator

Indicates the tape speed in record mode.

32k/48k sampling frequency indication

Indicates whether audio recording or playback occurs with 12-bit, 32 kHz sampling or 16-bit 48 kHz sampling.

 In the recording mode, the sampling frequency is set using the VCR Setup Menu item No. 245 SAMPLING RATE. In the playback mode, the indication conforms to the sampling rate of the recorded sound.

(3) [AUD LOCK] indicator

Indicates whether the audio signal is locked to the video signal during recording and playback.

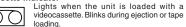
[MENU] indicator

Appears when the MENU button
 on page 15 is pressed to select the VCR Setup Menu.

WIDE indicator

- During IEEE1394 input, the unit will display the "WIDE" indicator if the inputted data is of 16:9 aspect ratio.
- · During playback and in the search modes, the "WIDE" indicator is displayed if the recording was made in the WIDE mode. The indicator remains off if the recording was made in the NORMAL or LETTER mode.

Cassette indicator



videocassette. Blinks during ejection or tape

The remaining tape time (minutes and seconds) is shown. For details, see page "Remaining Tape Time Display" on page 24.

15

2-2 Right Side Section (Cont'd)

Tape transport direction indicators

REV FWD. One of the indicators lights according to the tape transport direction.

is displayed in the record-pause mode and in the still picture mode.

Remaining Battery Power Display

The 7-dot segment bar display shows the remaining battery

* To display the remaining battery power accurately, set the VCR Setup Menu item No. 396 BATTERY TYPE according to the type of the battery pack in use. See "Remaining Battery Power Display" on page 24.

(5) Counter display

- Usually, this section shows the data of the CTL counter, time code or user's bit. The display mode can be selected with the @ COUNTER switch.
- Displays the VCR setup menu data when the GY-DV550 is in the VCR setup menu mode by pressing the MENU button 1 on page 15. The VCR setup menu includes the hour meter (accumulated drum operating time).
- · This section shows an error code when an abnormal condition occurs with the unit.
- See "Counter Display Contents" on page 24.
- See "TROUBLES WITH ERROR CODE OUTPUTS" on page 100.

Section for time code related indications

■ [SLAVE] Slave lock indicator

This is the slave lock indicator which lights when the builtin time code generator is slave-locked (synchronized) with the LTC time code signal input at the TC IN connector. For the slave lock of the time code, see page 64.

■ [PB] Time code playback indicator

Lights when the time code is in playback mode.

■ [NDF] Non-drop frame indicator (U MODEL)

Lights when the internal time code generator or the playback time code framing mode is non-drop frame. "DF" is displayed in the drop-frame mode.

It never lights when the CTL counter is displayed.

■ [HOLD] indicator

Lights when the time code generator display is held by pressing the HOLD button in the time code setting block. The time code or user's bit can be preset while this indicator is lit

See "Displaying Time Code" on page 62.

Warning indicators

■ [AUTO OFF] indicator

Lights when a non-recoverable error (e.g. tape winding error, drum stopped, etc.) occurs with the unit. This indicator also lights if condensation occurs.

See "TROUBLES WITH ERROR CODE OUTPUTS" on page 100.

■ [DEW] indicator

Lights when condensation (dewing) occurs on the drum or other mechanism in the unit.

The unit rejects all operations while this indicator is lit. When the condensation has disappeared, the indicator turns off and the unit accepts operations again.

■ [SERVO] indicator

Lights in the case of trouble with the drum servo during recording to indicate that normal recording is not being accomplished.

■ [RF] indicator

Lights when the video head is clogged. Head clogging is detected during playback and recording check using the RET button on the lens section. Note that it is not detected during recording.

* Should this indicator light up, clean the head using the provided head cleaning tape. For instructions on head cleaning tape, read "Precautions for Use of Head Cleaning Tape" on page 8.

■ [Li] Lithium indicator

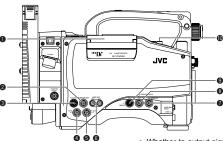
Lights and indicates the necessity of replacement when the lithium battery that backs up data of the built-in time code generator is nearly exhausted, See "Inserting and Replacing Backup Lithium Batteries" on page 36.

For servicing

The protocol of VCR control is not printed in this service manual.

2. CONTROLS. INDICATORS AND CONNECTORS

2-3 Left Side Section



Cassette cover

Pressing the EJECT switch on top of the section opens this cover so that a videocassette can be inserted or removed from the unit. The cover can be locked automatically by pushing and closing it.

If the cassette cover is not closed, the GY-DV550 will remain inoperative.

Memo:

To prevent penetration of foreign objects into the unit, do not leave the unit with the cassette cover open.

[MONITOR OUT] monitor output connector (BNC)

Connector for composite video signal output. The following video signals are outputted

. E-E video or playback video of VCR

Screen mixed with characters.

 External video signal (When VTR INPUT switch is set to AUX) Select whether to output the E-E video/playback video of VCR or character-mixed screen by CHARACTER MIX of the Camera Setup screen. See page 83

- · Select whether to output signals that include setup in the E-E video in SETUP of the Camera Setup screen. See page 83
- * Setup is not included during E-E of IEEE1394. (U MODEL)
- VITC time code is not outputted from this connector.

(4P) [Y/C OUT] connector

Separate YC video signal output connector.

(BNC)

Input connector for the SMPTE-standard LTC signal. The built-in time code generator can be slave-locked with the input time codes. If the user's bits should also be slave-locked, set the VCR Setup Menu item No. 403 U-BIT SLAVE to "TC&UB".

When the TC GENE switch (10 on page 15) is set to REC or REGEN, or the VCR Setup Menu item No. 398 SSF MODE is set to "CUE MODE" or "MARK MODE", slave-locking will not take place. For the slave lock of time code, see page 64.

6 TC OUT connector (BNC)

Output connector for the LTC signal from the built-in time code generator.

The time code recorded on the tape is not output in play mode. (RCA)

Output connector for audio signals.

- Outputs the input audio signal in the record and stop
- · Outputs the playback audio signal in the playback mode. · Alarm sound is not output.

[VIDEO OUT] Video output connector (BNC)

Connector for composite video signal output. Camera images are constantly outputted as through images. Camera images are outputted even during external video signal input (when VTR INPUT switch on page 15 is set to AUX).

· Whether to output signals with setup can be selected in SETUP of the Camera Setup screen. See page 83 (U MODEL)

3 [GENLOCK/AUX IN] Generationlock/Aux signal input connector

Synchronous signals (black burst signals) are inputted when the GY-DV550's camera image is synchronized with an external component. Composite video signals are inputted when recording video signals from an external device with this unit. Which video signals to input can be selected using the VTR INPUT switch on page 15.

- Video signals from this connector are not outputted to the VTR/RM multi-pin connector 3 on page 21.
- · When the camera remote control unit is connected with setting the MODE switch 6 on page 20 to RM, this connector will be used for synchronous signal input regardless of the VTR INPUT switch setting.
- The camera cannot be synchronized with a VCR
- When the power is switched ON while an external sync signal is input, the screen moves in a vertical direction for a few seconds. this is not a malfunction.
- · If the external sync signal is disrupted during recording, the "SYnc inh" (SYNC INHIBIT) indicator is displayed on the counter display and recording stops.
- If the external sync signal is disrupted during playback, playback of the disturbed video image continues. Start playback again after synchronization is obtained and the signal is stabilized.
- The screen will distort when inputting sync signals to both the main unit and camera remote control unit.
- This external video signal input (AUX IN) connector is an auxiliary connector. The bandwidth of Y signals will be 6.75 MHz (8 bit) regardless of the inputted signal bandwidth.

9 [REMOTE] connector

A part of the unit's functions can be controlled externally. For connecting the local remote control unit (RM-LP55/RM-LP-57), nonlinear editing device, etc.

- . When connecting the local remote control unit, Set VTR Setup menu No. 050 REMOTE SELECT to LOCAL or IEEE1394.
- When connecting a nonlinear editing device, set to IEEE1394+RS232C

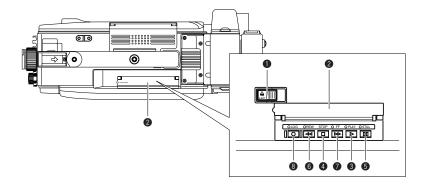
For details, please consult your JVC dealer.

If you make an error in the setting, disconnect the connector cable before performing setting again.

Microphone attachment holes

For attaching the microphone holder KA-A50 (optional). See "Attaching the Microphone (optional)" on page 34.

2-4 Top Section



1 [EJECT] switch

Slide to the side when inserting or ejecting the videocassette. Sliding this switch opens the cassette cover. If the switch is moved while the power is off, the cassette cover opens but it is not possible to insert or eject the cassette.

2 Operation cover

Open this cover when operating in the playback mode. Otherwise, keep this cover closed.

[PLAY] button

Press to start playback. In play mode, the unit outputs the video and audio signals of normal playback and the LED indicator above the PLAY button lights.

* If the auto tracking is active at the moment the play mode is entered, the playback video will be interfered with digital

(STOP) button

Press to enter stop mode. The drum keeps rotating in stop mode. However, when stop mode has continued for about 30 minutes, the unit enters the tape protect mode, in which the drum stops rotation and the tape tensioner is released. It takes more time than usual to enter the record or play mode from the tape protect mode.

* The time until the tape protect mode is initiated can be set to 3 or 30 minutes with the VCR Setup Menu item No. 307 LONG PAUSE TIME. When used in a cold environment, the setting will be 3 minutes regardless of the setting on the VCR Setup Menu. See page 75.

6 [STILL] button

Press to enter the still picture mode during playback or in the search or stop mode.

When the still picture mode has continued for about 30 minutes, the unit automatically switches to the stop mode. (Tape protect mode)

The time until the tape protect mode is initiated can be set to 3 minutes or 30 minutes with the VCR Setup Menu item No. 307 LONG PAUSE TIME.

When used in a cold environment, the setting will be 3 minutes regardless of the setting on the VCR Setup Menu.

@ [REW] button

Press to rewind the tape.

- · Pressing the button in stop or fast forward mode initiates the rewind mode. The LED indicator above the REW button lights in this mode.
- · Pressing the button during playback, still or forward search initiates reverse search at about 10 times the normal play speed. The LED indicators above the PLAY and REW buttons light during reverse search.

7 [FF] button

Press to fast forward tape.

- · Pressing the button in stop or rewind mode initiates fast forward mode. The LED indicator above the FF button lights in this mode.
- Pressing the button during playback, still or reverse search initiates forward search at about 10 times the normal play speed. The LED indicators above the PLAY and FF buttons light during forward search.

(1) [LOG] button

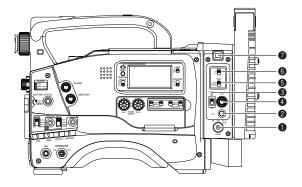
- . When the REW button is pressed while this button is kept pressed, the S.S.F. data stored in the unit's memory are written to the tape. The LED indicator above the LOG button lights while S.S.F. data is being written to the tape.
- When the CONTINUE button (6) on page 15) is pressed while this button is kept pressed in the stop mode, the tape winds to the S.S.F. data's last OUT point, after which the unit enters the record-pause mode. (Scene End Cue Up) The FF button's LED blinks during Scene End Cue Up. See "Writing S.S.F. Data to Tape" on page 69.

-CAUTION:

- . Only the EJECT switch and STOP button work during recording.
- · If the cassette cover is open, all operations are rejected

2. CONTROLS. INDICATORS AND CONNECTORS

2-5 Adapter Section



1 [POWER] power source setting switch

The power source to this unit is selected using this switch. When turning on the power, set this switch first.

DC IN/BATT: Use this setting when supplying power from the DC INPUT connector of this unit or from

the battery. : Use this setting when not supplying power to

OFF this unit. RM

: Use this setting when supplying power from the camera control unit through the VTR/RM multi-pin connector 3.

-CAUTION: -

When connecting an external VCR, set this switch to DC IN/BATT and supply power from the DC INPUT connector or the battery of this unit.

@ [CALL] button

This button is pressed when sending call signals to a camera control unit operator without using the intercom headset. When this button is held down, BACK TALLY lamp @ blinks and call signals are sent to the camera control unit. When releasing this button, the unit stops sending the call signals and BACK TALLY lamp of turns off.

3 [INCOM MIC] intercom microphone ON/OFF switch

Microphone ON/OFF switch for the intercom headset. Set the switch to OFF when not using the microphone of the headset

4 [INTERCOM LEVEL] intercom receiver volume Knob for controlling the intercom headset receiver volume.

[INCOM MIC] intercom microphone setting switch This switch is used to select the microphone type of the intercom headset

CARBON: Use this setting when using a carbon-type microphone

DYNAMIC: Use this setting when using a dynamic-type microphone.

6 [MODE] setting switch

This switch is used to select the usage mode of the VTR/ RM multi-pin connector.

RM : This setting is used when connecting with the camera control unit.

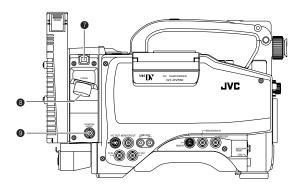
VTR: This setting is used when connecting and recording using an external VCR

BACK Tally lamp

This lamp lights when the unit is in the recording mode. The lamp flashes when the unit is shifting to the recording mode. The lamp status and the lighting method can be selected in No.082 BACK TALLY MODE of the VCR Setup menu. See page 74, "BACK TALLY MODE"

The lamp blinks when the camera control unit is connected and while CALL button 2 is held down. The lamp turns off when the CALL button is released. The lamp flashes when a call signal is received from a camera control unit operator. For details on the tally lamp display when connecting the camera remote control unit, See page 95.

2-5 Adapter Section (continued)



(26P) [VTR/RM] VTR/RM multi-pin connector

This connector is used to connect an external VCR or camera control unit. Camera image signals are outputted from this connector.

Set MODE switch 6 according to the connecting device.

Memo:

- Camera images of this unit are recorded on the external VCR. Compost video signals from GENLOCK/ AUX IN connector on page 18 are not recorded.
- When recording on an external VCR, set the VTR INPUT switch on page 15 to CAM and set the VTR SELECT switch to PARA or EXT.
- Only CH1 audio can be outputted for audio signals.

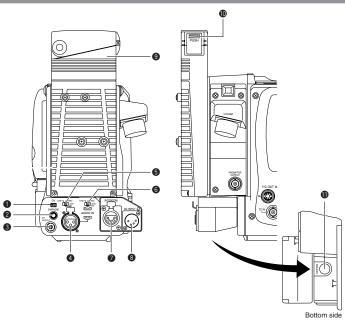
[PROMPTER OUTPUT] prompter output connector

Return video signals of the external VCR or signals inputted to the AUX input connector of the camera remote control unit are outputted through VTR/RM multi-pin connector

8.

2. CONTROLS, INDICATORS AND CONNECTORS

2-6 Rear Section



1 [DV] connector

Using a DV cable (optional), a digital video component with DV connector can be connected here.

This connector is used for output of the DV signal or to input the VCR control signal from the digital video component with DV connector.

 To remote control the VCR with a VCR control signal from this connector, set the VCR Setup Menu item No. 050 REMOTE SELECT to "IEEE1394".

2 [EARPHONE] earphone jack

This is a mini-jack for connecting an audio monitoring earphone. Plug in an earphone or headphone with a 3.5 mm diameter plug. Audio is outputted in monaural.

The earphone can also be used to monitor alarm tones depending on situations.

The sound from the monitoring loudspeaker is interrupted when an earphone is connected here.

③ [DC OUTPUT] connector

Power output connector to a wireless microphone transmitter, etc. The supply voltage is identical to the voltage supplied to the unit (DC 12V max. 0.1 A).



No.	Signal
1)	GND
2	_
3	_
4	DC +12V (power through)

(Surface profile)

[AUDIO IN REAR] audio input rear connector (XLR 3-pin)

Connect the external audio equipment or microphone to this connector. Set the AUDIO IN REAR LINE/MIC select switch according to the connected equipment.

To record the audio of this connector, set the CH-1 AUDIO INPUT switch or the CH-2 AUDIO INPUT switch on page 14 to "REAR".

(AUDIO IN connector)



[No.	Signal
[1	GND
	2	НОТ
	3	COLD

[3 [AUDIO IN REAR LINE/MIC] AUDIO IN REAR select switch

Selects the audio signal input to the 4 AUDIO IN REAR connector

LINE: Set to this position when connected to audio equipment, etc. The reference input level is +4 dBs.

MIC : Set to this position when the microphone is connected. The reference input level is -60 dBs.

MIC +48V ON

Set to this position when the microphone requiring +48 V power supply (phantom microphone, etc.) is connected.

This connector supplies +48 V DC current.

2-6 Rear Section (Cont'd)

[AUDIO IN FRONT LINE/MIC] AUDIO IN FRONT select switch

Selects the audio signal input to the AUDIO IN FRONT connector **3** on page 10.

LINE: Set to this position when connected to audio equipment, etc. The reference input level is +4 dBs.

MIC: Set to this position when the microphone is connected. The reference input level is -60 dBs.

MIC +48V ON:

Set to this position when a microphone requiring +48 V power supply (phantom microphone, etc.) is connected. This connector supplies +48 V DC current.

Use this setting when using the provided microphone.

-CAUTION:

When connecting a component that does not require +48 V power supply, make sure that the switch is not set to this position before the connection is made.

[INTERCOM] intercom input terminal (XLR 5-pin) Input terminal for the intercom headset.

Connect the JVC Intercom KA-310 to this terminal. This terminal is enabled when the VTR/RM connector (26-pin) on page 21 is connected to the camera control unit. (Enabled when the MODE switch **9** on page 20 is set to RM.)

3 [DC INPUT] connector (XLR 4-pin)

Power input connector for 12 V DC. Connect with the AA-P250 optional AC power adapter. When a cable is connected here, the power supply from the battery pack is interrupted and the source is switched to the power supplied through this connector.

When supplying power to the unit from this connector or battery, set the POWER switch
 on page 20 to DC IN/BATT.



No.	Signal
1	GND
2	_
3	_
(4)	+12V

Battery holder

Mount a Flat Shape type battery pack here.

When supplying power to the unit from DC INPUT connector or battery- set the POWER switch on page 20 to DC IN/BATT.

See "Attaching a Flat Shape Type Battery Pack" on page 38.

Battery holder lock release knob

This knob is used to open the battery case cover. Press the knob to open the cover.

() [BREAKER]

The breaker trips when the power consumption exceeds the capacity.

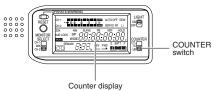
If the breaker trips, confirm that the power consumption does not exceed the wattage rating. Then press BREAKER before turning the power ON again to put the camera in the operating status.

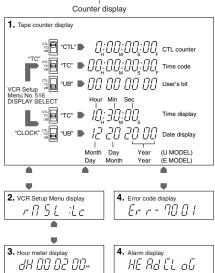
If the unit still does not work normally, please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.

For servicing See the service manual page 1-1, "1.1 RESETING THE POWER CIRCUIT PROTECTION BREAKER".

2. CONTROLS, INDICATORS AND CONNECTORS

2-7 Counter Display Contents





Remaining Tape Time Display

This display shows the remaining tape time (minutes/seconds) in record and play modes.

. Example: 30 minutes of remaining tape.

- This indicator blinks when remaining tape time is equivalent to less than 2 minutes.
- * An alarm sounds as a warning when remaining tape time is equivalent to less than 2 minutes in the record mode



 The following display appears when no videocassette is loaded or during the calculation of remaining tape that takes place immediately after a videocassette is inserted.

The counter display shows the following 4 types of information.

1. Tape counter display

The counter display usually functions as a tape counter (hour, minute, second, frame). It can be switched to a CTL counter, time code or user's bit display by using the COUNTER switch. (When the VCR Setup Menu item No. 516 DISPLAY SELECT is set to "TC".)

- CTL counter: Time between -9 hr. 59 min. 59 sec. 29 frames and 9 hr. 59 min. 59 sec. 29 (U)/24 (E) frames can be displayed.
 - * CTL counter indication may also corrupt at playback of segment which time code signal is not continuously recorded.
- Time code : Time between 0 hour and 23 hr. 59 min. 59 sec. 29 (U)/24 (E) frames can be displayed.

 User's bit : Hexadecimal number from 0 to F is displayed

When the VCR Setup Menu item No. 516 DISPLAY SELECT is set to "CLOCK", the date and time are displayed. Set the COUNTER switch to TC or UB.

TC: Time (Hour, Min., Sec.) is displayed.

in 8 digits

UB: Date (Month, Day, Year) is displayed. (U MODEL) UB: Date (Day, Month, Year) is displayed. (E MODEL)

Press the MENU button to switch to the VCR Setup Menu setting display.

2. VCR Setup Menu setting display

This display is used when setting the setup menus. After setting of the setup menus, the tape counter display returns. For details, see "DISPLAYING AND SETTING VCR SETUP MENUS" on page 73.

3. Hour meter display

The hour meter is displayed by selecting the HM group from the VCR Setup Menu.

The hour meter data refers to the accumulated head drum running time.

4. Error code/Alarm display

The error code or alarm indicator is displayed automatically in case an abnormal condition occurs with the unit.

- See "TROUBLES WITH ERROR CODE OUTPUTS" on page 100.
- See "ALARM INDICATIONS" on page 96.

Remaining Battery Power Display

The 7-dot segment bar display shows the remaining battery power. The lighted segment bars decrease as the remaining battery power decreases.

 To display the remaining battery power accurately, set the VCR Setup Menu item No. 396 BATTERY TYPE according to the type of the battery pack in use.

E BATT F

All segment bars light when a fully charged battery pack is attached.



The last 2 segment bars and "BATT" start to blink when the battery is nearly exhausted. Replace with a fully charged battery pack.

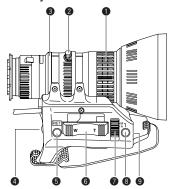


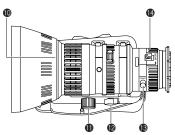
When the battery capacity has run out, "E" and "BATT" blink and the unit stops operation automatically.

23

2-8 Lens (optional)

[S14 x 7.3B12]





FOCUS ring

Manual focus ring.

2 ZOOM lever/ring

This is the manual zoom ring equipped with a zoom lever. To adjust the zoom manually, turn the zoom mode knob **②** to position "M".

(3) IRIS ring

Manual iris ring. To activate the auto iris feature, set the Iris Mode switch ${\bf 0}$ to A.

4 [VTR] Trigger button

To start/stop shooting.

6 [RET] return video button

- When GY-DV550 is in the record-pause or stop mode, press this button to check the immediately preceding image recorded.
- When the camera control unit is connected, the return video signals can be monitored on the viewfinder while pushing this button.
- When an external VCR is connected, the return video and return audio signals can be monitored while pushing this button.

(When VTR SELECT switch is set to EXT.)

6 ZOOM servo control lever

To operate the servo zoom feature with this lever, set the ZOOM knob $\ensuremath{\mathfrak{Q}}$ to S.

- Pressing the W section of this lever increases the angle of the lens for a wider shooting angle.
- Pressing the T section of this lever narrows the lens angle perspective for telephoto shots.
- Pushing harder changes the speed of the zoom.

IRIS mode switch

A: Activates the auto iris feature.

M: Allows manual iris control.

Momentary auto iris button

When the IRIS MODE switch of is at "M", pushing this button activates the Auto Iris Function while it is held down only.

9 [S] IRIS speed adjusting control

For adjusting the iris operation speed.

Memo:

If the speed becomes too fast, hunting may occur. To avoid the phenomena described above, perform adjustment again.

FILTER thread

Protect the lens with a clear filter or UV filter by screwing the filter onto the thread inside the lens hood from the front. Other filters can be used for various effects.

-CAUTION

The filter thread section rotates, so pay attention when mounting a polarizing filter.

ZOOM servo connector

Connect an optional zoom servo unit here.

2 ZOOM mode knob

- S: Servo zoom mode. Allows operation by the zoom servo control lever .
- M: Manual zoom mode. Allows zoom control by the zoom lever/ring ②.

BACK FOCUS ring/fixing screw

For back focus adjustment only. Secure with the screw knob after adjustment.

See "Back Focus Adjustment" on page 46.

Macro focusing ring (for close-up shooting)

By rotating this ring in the direction of the arrow, close-up shooting of very small objects becomes possible.

Normal focus adjustment and zooming are not available in the macro mode.

To shoot images in the macro mode, set the focus ring ① to the infinite position and the zoom ring ② to the maximum wide-angle position. To adjust the focus of the macro image, rotate this ring in the direction of the arrow until the object is focused.

CAUTION:

- The back-focus knob is located close to the macro ring, be careful not to mistake the back-focus knob for the macro ring.
- After the required operation, be sure to return the macro focusing ring to the normal position.
- See "Attaching the Zoom Lens (optional)" on page 33.
- See "Back Focus Adjustment" on page 46.

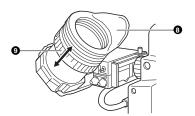
2. CONTROLS. INDICATORS AND CONNECTORS

2-9 1.5-Inch Viewfinder (optional)

[VF-P115B]







Stopper screw

This screw prevents the viewfinder from coming off the camera

2 Mounting guide

To attach on the camera.

Onnector

Connect to the camera.

[CONT] contrast adjustment

To adjust the contours of the viewfinder image.

⑤ [BRIGHT] brightness adjustment

To adjust the brightness of the viewfinder.

[TALLY] switch

Set this switch to OFF to prevent the tally light form turning on and informing people that they are being recorded. However, the REC indicator lamp in the eyepiece will not turn off.

Tally light

Lights when recording is in progress. To prevent this light from coming on, set the tally switch 6 to "OFF".

8 Eyepiece

Ensures that ambient light does not reach the viewfinder screen or falls into the eye of the cameraman.

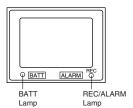
The eyepiece can be opened to allow direct observation of the viewfinder screen.

Eyepiece focusing ring

Loosen this ring to move the eyepiece back or forth to adjust the diopter.

2-10 Indications in Viewfinder

WARNING LED INDICATORS INSIDE THE VIEWFINDER



The viewfinder has two LED indicators below the screen. These LEDs light or blink to indicate the present status of the camera or the VCR.

• [BATT] battery lamp This lights red when the battery voltage becomes too low for

operating the camera. REC/ALARM lamp

The internal VCR status is displayed when the VTR SELECT switch is set to INT or PARA.

This lights or blinks green under the following circumstances.

Steady green: During recording.
Blinks green: • While the GY-DV550 switches from record-pause to recording.

 Immediately before the tape is running out or when it has run out.

• When an error occurs in the GY-DV550. The external VCR status is displayed when VTR SELECT switch is set to EXT.

Steady green: During recording.

Blinks green: • Immediately before the tape is running out.

· When an error occurs in the VCR.

VIEWFINDER SCREEN DISPLAY

The following indications are displayed on the viewfinder screen. (However, this information is not displayed while the VCR section is playing back a tape.)

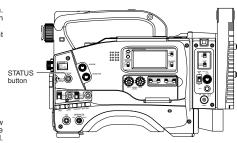
- Status screens (screens for use in checking the current camera settings)
- Alarm message display
- Time date display
- Safety zone display
- Setting screen (screen for use in the camera and VCR setup)
- Auto white balance display
- Shutter speed display

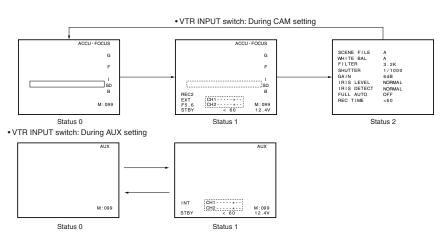
■ Status Screens

Press the STATUS button during normal screen display to show one of the status screens in the viewfinder. One of the three status screens will be displayed every time the button is pressed. (Status 0, 1, 2)

The status 2 screen will not appear during external video signal input (when the VTR INPUT switch is set to AUX).

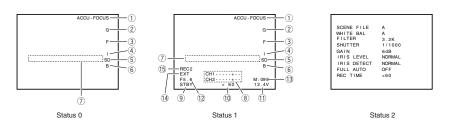
In addition, AUX will appear on the upper right of status screen 0 and 1 and camera setting related display will not be made.





2. CONTROLS. INDICATORS AND CONNECTORS

2-10 Indications in Viewfinder (Cont'd)



Status 0

Display Position	Display	Function	
1)	ACCU-FOCUS	Blinks during the ACCU-FOCUS operation.	
	SKIN AREA	Blinks while the skin tone detail color area is displayed.	
	S	Displayed when the SHUTTER or V-SCAN is ON.	
	FAS	Displayed when the Full Auto Shooting is ON.	
	ALC	Displayed when the ALC alone is ON.	
	IEEE 1394	Displayed when VCR Setup menu No.126 VIDEO INPUT is set to IEEE1394.	
	AUX	Displayed during external video signal input.	
2	G	Displayed in other modes than 0 dB, LOLUX and ALC.	
	L	Displayed during LOLUX operation.	Not displayed
3	F	Displayed when FAW alone is ON.	during external
4	Į.	Displayed when IRIS BACK LIGHT or IRIS SPOT LIGHT is selected.	video signal input (when the
(5)	SD	Displayed while the Skin Detail function is in operation.	VCR INPUT
6	В	Displayed when BLACK STRETCH or BLACK COMPRESSION is selected.	switch is set to AUX).
7	Event display	See the table below.	

(7) Event display ... Not displayed during external video signal input or IEEE1394 input. Event is displayed in the viewfinder for only about 2 seconds when any of the following switches is operated.

Switch	Event Display Contents	
ZEBRA	ZEBRA	ON, OFF
BLACK	BLACK	STRETCH, NORMAL, COMPRESS
GAIN	GAIN	−3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, ALC
WHT. BAL	WHITE BAL	A, B, PRESET, FAW
FULL AUTO	FULL AUTO	ON, OFF
AUTO IRIS	IRIS	BACK L, NORMAL, SPOT L
LOLUX	LOLUX	ON, OFF
FILTER knob	FILTER	3.2K, 5.6K+1/8ND, 5.6K+1/64ND
VTR	VTR	STBY, SAVE
AUTO KNEE	AUTO KNEE	ON, OFF

2-10 Indications in Viewfinder (Cont'd)

Status 1

In addition to the information on the Status 0 screen, this screen displays audio indicators and information on remaining tape, voltage and lens F-number (or FILTER POSITION).

Display position	Display	Function
8	(Example) CH1+ CH2+	Shows the input level of the audio input channel. Display ON/OFF can be selected using the VF DISPLAY menu screen. See "AUDIO DISPLAY" on page 78.
9	STBY SAVE STOP REC FF REW EJECT	VCR in standby mode VCR in save mode VCR in stop mode VCR in frecord mode VCR in fast-forward mode VCR in rewind mode VCR in region mode VCR in region mode VCR in specific mode
10	(Example) < 60 (Example) 12: 34: 56: 20	Remaining tape indication (displayed in 1-minute steps) When the tape is used for a long time, the remaining tape may not be indicated accurately. At the beginning of the tape, in particular, the indication may show smaller value than the actual one. Time code display Time code display is available when the "RECTIME" item on the VF DISPLAY menu screen is set to TIME CODE. See See "RECTIME" on page 78.
(1)	(Example) 12.4V	Voltage indication (displayed in 0.1 V steps) The indicator flashes when the battery is low. The indicator will not appear when the camera remote control unit is connected.
12	F-number: OPEN, F2, F2.8, F4, F5.6, F8, F11, F16, CLOSE FILTER: FIL1, FIL2, FIL3	The F-number of the connected lens or the filter position of the unit is displayed. Whether to display the F-number or filter position, or no display is selected in F. NO/FILTER of the VF DISPLAY screen. The F-number may not be displayed depending on the lens type or when the lens is removed. Expressed and the lens is removed. The See page 78 Not displayed during external video signal input or IEEE 1394 input.
13	(Example) M: 099	In the Super Scene Finder (S.S.F.) mode, the number of memorized scenes is shown. M: In MARK mode C: In CUE mode Number: Number of memorized scenes
14)	EXT, INT, PARA	Displays whether the main unit is used for recording or the external VCR connected to the VTR/RM multi-pin connector. The displays will differ depending on the VTR SELECT switch setting. INT is constantly displayed during external video input or IEEE1394 input. INT is constantly displayed when the VTR/RM switch is set to RM.
15	REC2	The display will light during external VCR recording. The display flashes when there is a warning on the external VCR. The display will not appear when the VTR/RM switch is set to RM.

• Status 2 ... Not displayed during external video signal input or IEEE1394 input.

This screen displays the camera setup statuses.

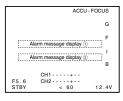
Event display is not available while this screen is displayed.

Indication	Indication Contents
SCENE FILE	A, B, OFF
WHITE BAL	A, B, PRESET, FAW, MANUAL (When remote control unit w/manual balance is connected.)
FILTER	3.2K, 5.6K+1/8ND, 5.6K+1/64ND
SHUTTER	OFF, 1/100 (U)/1/120(E), 1/250, 1/500, 1/1000, 1/2000, 1/60.1 (U)/1/50.1 (E) to 1/2084.6 (U)/
	1/2067.8 (E) (in VARIABLE mode), EEI (in ALC mode)
GAIN	-3dB, 0dB, 3dB, 6dB, 9dB, 12dB, 18dB, LOLUX, ALC
IRIS LEVEL	NORMAL, BACK L, SPOT L
FULL AUTO	ON, OFF
REC TIME	Remaining tape time or time code.

2. CONTROLS, INDICATORS AND CONNECTORS

2-10 Indications in Viewfinder (Cont'd)

■ Alarm Message Display

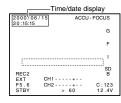


The following alarm messages are displayed on the status 0 and status 1 screens.

Event display is not made when an alarm message is displayed in alarm message display @.

	Indication	Contents
1	CLOSE CASSETTE COVER VTR WARNING [HEAD] VTR WARNING [SERVO] VTR WARNING [DEW] VTR WARNING [HARD] VTR WARNING [STOP] VTR WARNING [STOP]	The cassette cover is not closed. Head clogging Servo error Condensation Hardware error Operation stopped Rewinding abnormality
2	TAPE NEAR END TAPE END NO TAPE	Remaining tape time is less than about 2 minutes in the record mode Tape end reached REC INHIBITAn unrecordable videocassette (the switch on the back of the cassette is set to SAVE) is inserted. VTR trigger is pressed with no tape loaded.

■ Time/Date Display



When setting DISPLAY item of the TIME DATE menu screen to ON, the time and date will appear as shown in the diagram on the left. The time and date are recorded on tape during recording as well.

For the display formats of the time and date, see page 84. For setting the time and date, see page 43.

2-10 Indication in Viewfinder (Cont'd)

■ Safety Zone

Two types of safety zone items can be displayed in the viewfinder. Select the required one with the SAFETY ZONE item on the VF DISPLAY menu screen. The CENTER MARK item can be used to select whether the safety zone center mark indicator should be displayed or not (ON/OFF).







■ Setting the Screen Display



Screen used for making various settings of the camera and VCR.

- See "Camera Menu Screen Flow" on page 76.
- See "VCR Setup Menu" on page 72.

■ Auto White Balance Display



This screen appears during the auto white balance adjustment operation to display various data.

See "White Balance Adjustment" on page 47.

■ Shutter Speed Display



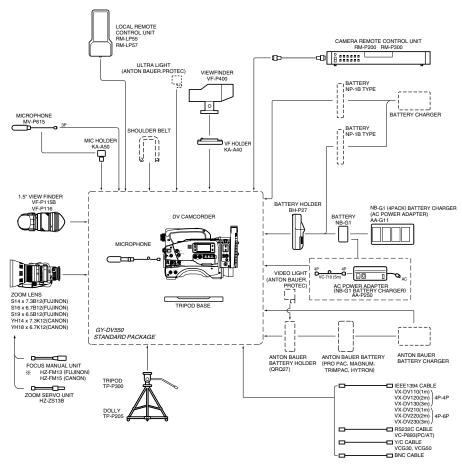
When the SHUTTER dial is pressed, a shutter speed is displayed (for approx. 5 sec.). In addition, whenever the shutter speed is altered by using the SHUTTER dial, the shutter speed is displayed. While this display is shown, other displays disappear.

See "SHUTTER dial" on page 12.

3. BASIC SYSTEM CONNECTIONS AND ADJUSTMENTS

3-1 Basic System

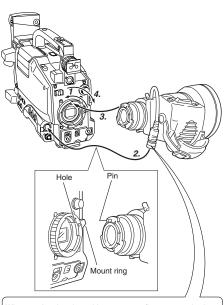
For information on connection with the individual attachments, refer to the page explaining the respective connection methods.



** HZ-FM13 cannot be used with S14X7.3B12/U.
Please use the Focus Manual Unit (FMM-8, CHF-3, CFC-12-990) manufactured by Fujinon.

3. BASIC SYSTEM CONNECTIONS AND ADJUSTMENTS

3-2 Attaching the Zoom Lens (optional)



- 1. Loosen the mount ring.
- 2. Connect the cable connector.
- 3. Attach the lens with its pin aligned with the hole in the mount.

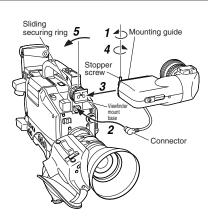
4. Tighten the mount ring.

CAUTION:

Be sure to tighten the mount ring completely. Incomplete tightening may result in the lens dropping off or disturbed back focus.

When unplugging the cable connector, first remove the lens itself. Then grasp this portion and pull straight out.

3-3 Attaching the Viewfinder (optional)

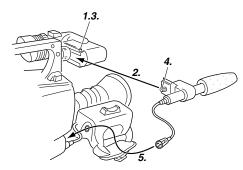


- Loosen the stopper screw on the viewfinder.
- 2. Connect the connector.
- Align the mounting guide with the camera's viewfinder mount base and attach the viewfinder.
- 4. Tighten the stopper screw.
- 5. Tighten the sliding securing ring.
- * To detach the viewfinder, reverse the mounting procedure.

3. BASIC SYSTEM CONNECTIONS AND ADJUSTMENTS

3-4 Attaching the Microphone (provided)

Provided Microphone



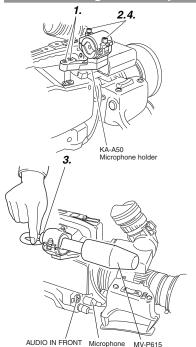
Connecting the provided microphone to the viewfinder. The provided microphone is a phantom microphone.

- 1. Loosen the stopper screw on the viewfinder.
- **2.**Attach the microphone to the attachment guide on the viewfinder as illustrated.
- **3.** Confirm that there is no gap between the microphone and the viewfinder, and then tighten the stopper screw.
- **4.** Tighten the microphone screw. The microphone should be firmly attached.
- Connect the cable from the microphone to the AUDIO IN FRONT connector on the front section of the camera.
- Secure the microphone cable using the cable clamp located on the front of the camera.

-CAUTION:

When this microphone is attached, the range that the viewfinder can be moved to the left will be reduced. Please purchase a separately sold microphone if you prefer to observe through the viewfinder using your left eye.

3-5 Attaching the Microphone (optional)



With the optional KA-A50 microphone holder, the optional microphones MV-P615 (Phantom microphone) can be used.

■ Attaching the Microphone with KA-A50

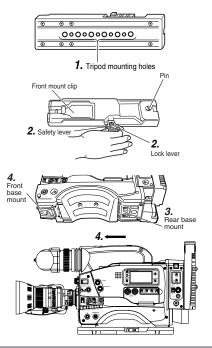
- 1. Secure the microphone holder with 2 screws.
- 2. Turn the small knob located on the outer side of the microphone holder anticlockwise to loosen it, and loosen the large knob located on the inner side in the same way. Rotate the large knob fully anticlockwise to open the holder.
- Attach the microphone to the microphone holder so that the microphone does not interfere with the cassette cover.
- 4. Set the microphone holder so that the height is level, and tighten the inside and outside knobs to secure the microphone
- **5.** Connect the microphone cable to the AUDIO IN FRONT connector
- Secure the microphone cable using the cable clamp located on the front of the camera.
- 7. Make sure to perform the correct settings for use of a phantom microphone.

Note:

 When the light mounted on the camera is used at the same time, if the microphone in use has a long sound collecting section (ultra-directional type, etc.), the microphone's shadow may influence the image.

3. BASIC SYSTEM CONNECTIONS AND ADJUSTMENTS

3-6 Attaching the Tripod Base (provided)



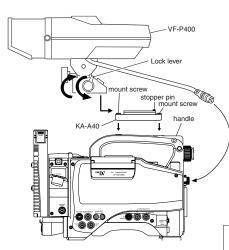
Use the provided tripod base to place the camera on a tripod.

- Attach the tripod base on the tripod by using the hole that balances the unit most optimally.
- **2.** While pushing the safety lever, pull the lock lever toward the front until the front mount clip clicks into place.
- **3.** Place the unit on the tripod base by aligning the rear base mount of the unit with the pin on the tripod base.
- 4. Push the unit from the upward direction and slide it toward the front so that the front base mount of the unit is locked by the front mount clip of the tripod base as it clicks into place.

CAUTION:

- The front base mount may be locked while the pin of the tripod base is not inserted into the hole on the rear base mount of the unit. Therefore, after mounting, make sure that these parts are engaged properly.
- When moving the unit mounted on a tripod, any impact or vibration should be avoided as this may cause the unit to become detached and to drop from the tripod.
 Be sure to remove the unit from the tripod before transporting it
- The tripod base (KA-510) cannot be mounted.

3-7 Attaching the 4-inch Viewfinder (Optional)



Use the optional viewfinder holder (KA-A40) to mount the 4-inch viewfinder (VF-P400) on the unit.

- **1.** Mount the viewfinder holder on the handle section of the
 - * Mount it so that the stopper pin of the viewfinder holder comes to face the front of the unit.
- 2. Fix the viewfinder holder securely using two screws.

-CAUTION:

Unless the screws are securely fixed, the viewfinder may drop. Exercise maximum caution.

- **3.** Loosen the lock lever of the 4-inch viewfinder, and slide the viewfinder forward along the viewfinder holder guide.
- Turn clockwise the lock lever of the 4-inch viewfinder and fix it.
- Connect the viewfinder cable connector to the viewfinder connector of the unit.

For servicing

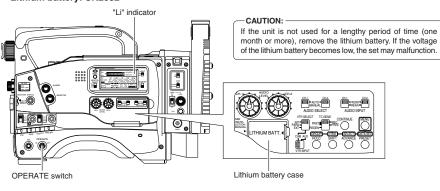
To use KA-510, see the service manual page 1-20, "1.12.8 Trpod base".

3. BASIC SYSTEM CONNECTIONS AND ADJUSTMENTS

3-8 Inserting and Replacing Backup Lithium Batteries

The GY-DV550 uses a lithium battery for backup of the time code data and time date data. Install the provided lithium battery before actually using the unit.

Lithium battery: CR2032



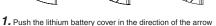
When the lithium battery is not in place or the battery is exhausted and requires a replacement, the "Li" indicator in the LCD display will light up.

Replace lithium batteries with the OPERATE switch set to ON. Doing it with the OPERATE switch set to OFF will cause the loss of backup data.

■ How to Install the Lithium Battery

as illustrated and remove the cover.

Lithium battery cover RESET switch



- **2.** Slide the battery into place with its \bigoplus marked surface facing upward.
- **3.** Return the lithium battery cover to its original position in the unit.

-Note:

Do not press the RESET switch when installing or removing the lithium battery.

■ How to Remove Lithium Batteries

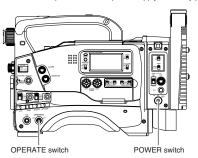


The lithium battery is easily removed if you press at the edge of the lithium battery at the place indicated in the illustration on the left and then pull the battery out.

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4. POWER SUPPLY

The GY-DV550 is operable with AC power supply or battery pack.



To operate the unit using AC power supply or battery, set the POWER switch to DC IN/BATT.

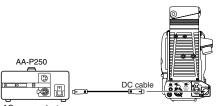
-CAUTION:

When supplying power to the unit from cameral control unit through the VTR/RM multi-pin connector, set the POWER switch to RM.

It is not possible to supply power to the main unit from an external VCR through the VTR/RM multi-pin connector.

4-1 AC Operation

Use the JVC AA-P250 AC power adapter (max. rated output 12.5 V DC, 3.5 A) as the AC power supply.



AC power adapter

Precautions for Connection with the AC POWER ADAPTER(AA-P250)

Always use the DC cable equipped with a ferrite core and supplied with the AA-P250.

The DC cable VC-710(5m) can not be used.

If the cable is not equipped with a ferrite core, please contact your JVC dealer.

Do not use any power source with large fluctuations in the power source voltage, or power sources generating noise, such as ripples.

- After making sure that the power switches of the GY-DV550 and of the AA-P250 are set to OFF, connect the DC cable from the AA-P250 to the DC INPUT connector of the GY-DV550 as shown in the illustration.
- 2. When the AA-P250 is used, set the CHARGE/CAMERA switch to CAMERA
- 3. Set the POWER switch of the main unit to DC IN/BATT, and set the OPERATE switch to ON.
 - * For details, read the instruction manual of the AA-P250.

Note:-

Do not remove or connect the DC cable while recording is being performed.

4-2 Battery Pack Operation

The GY-DV550 can be operated with the following battery packs.

- Flat shape type battery pack
- Anton-Bauer battery pack
- Propack 13/14 Series
- Trimpack 13/14 Series
- Magnum 13/14 Series
- Compack 13/14 Series



An Anton-Bauer battery pack cannot be connected directly to the GY-DV550. It is necessary to mount the optional battery holder.

Battery holder: Anton-Bauer QRQ27

For details on how to mount the battery holder, see page 39.

- When the DC cable is connected to the DC INPUT connector, the power supply from the battery pack is interrupted and the
 power starts to be supplied through the DC INPUT connector.
- Do not connect or disconnect the DC cable while operating with a battery pack.
- The following symptoms may occur if the DC cable is connected or disconnected while operating with a battery pack.
- The power is cut off for a moment when the DC cable is disconnected.
- Noise to the video and audio signals occurs. Audio signal are muted.
- When operation is continued with DC input after the battery pack capacity has been used up, set the OPERATE switch to OFF after the DC power is applied. Then switch ON again.
- If the GY-DV550 is left with the battery pack attached, a small amount of power is consumed even if the OPERATE switch on the GY-DV550 is set to OFF. Remove the battery pack when the GY-DV550 is not going to be used.

4. POWER SUPPLY

Lock release

lever

4-2 Battery Pack Operation (Cont'd)

ATTACHING A FLAT SHAPE TYPE BATTERY PACK

- Open the battery case cover while pushing the lock release lever.
- Insert the battery pack into the battery case with its electrodes facing the unit.
- 3. Close the battery case cover.

Be sure to set the POWER switch to OFF before replacing the battery pack.



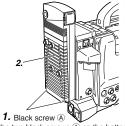
4. POWER SUPPLY

4-2 Battery Pack Operation (Cont'd)

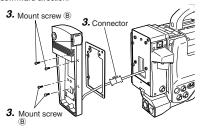
USING AN ANTON-BAUER BATTERY PACK

To use an Anton-Bauer battery pack (Propack 13/14, Trimpack 13/14, Magnum 13/14, Compack 13/14 Series), it is necessary to detach the battery case from the GY-DV550 and replace it with the Anton-Bauer battery holder. Use the following battery holder. Battery holder: Anton-Bauer OR027

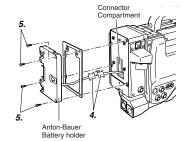
Detaching the Battery Case From the GY-DV550 and Attaching The Anton-Bauer Battery



- 1. Remove the two black screws (A) on the battery case.
- Remove the lower half of the battery case cover in the downward direction.

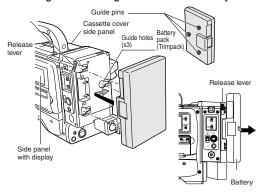


3. To remove the battery case, remove the four screws ® fixing the battery case and the connector connecting the battery case to this unit.



- **4.** Connect the connectors protruding from the GY-DV550 with the connectors on the battery holder.
 - * Following connection of the connectors, insert them into the connector compartment.
- Secure the battery holder to the GY-DV550 with the four mount screws provided with the battery holder.
- * Take care not to pinch the wires. This could result in damage.

Attaching and Detaching an Anton-Bauer Battery Pack



Attaching the Battery Pack

- Align the 3 guide pins of the battery pack with the guide holes on the battery holder, and push straight to insert the battery pack.
 The battery cannot be attached properly if the guide pins are not inserted straight.
- Slide the battery pack toward the side panel where the cassette cover is located until it clicks. Now the battery pack has been attached.

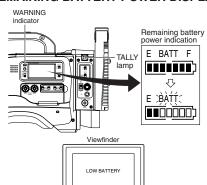
Detaching the Battery Pack

While pushing and holding the release lever, slide the battery pack toward the side panel where the LCD display is located, then pull the battery pack outward to remove.

4. POWER SUPPLY

4-2 Battery Pack Operation (Cont'd)

REMAINING BATTERY POWER DISPLAY



-O BATT ALARM O

To display the remaining battery power accurately, set the VCR Setup Menu item No. 396 BATTERY TYPE according to the type of the battery pack in use.

See page 75.

The status of the remaining battery power can be checked by the remaining battery power indication.

™ See page 24.

- When the remaining battery power is nearly exhausted, the following warning messages will appear. In this case, replace with a fully charged battery as soon as possible.
- Remaining battery power indication:
 Segment bar and "BATT" indicator start to blink
- WARNING indicator and TALLY lamp blink
- Viewfinder:
- · BATT lamp lights.
- TALL lamp blinks.
- . During status 1 mode, the voltage display flashes.
- Alarm sound beeps

After the remaining battery power warnings appear, the GY-DV550 automatically stops operation if the battery power operation is continued.

Operating Time with Battery Pack

BATT lamp

When the VF-P115B is used as the viewfinder and a fully charged battery pack is attached, the approximate continuous operating time is as follows:

Battery Pack	Continuous Operating Time (at 25 °C)
NP-1B	60 minutes
Magnum 14	130 minutes
NP-L40	80 minutes

- Battery operating time may differ depending on the number of times the battery has been charged, charging conditions and the operating environment, etc. Use the values in the table on the left for approximate reference times.
- Operating time is reduced in areas with a cold environment.
- Operating time is reduced when the power zoom lens is used frequently.

PRECAUTIONS FOR THE BATTERY PACK

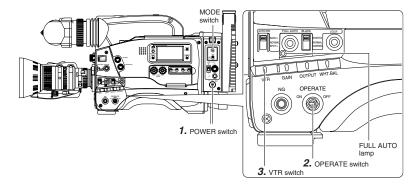
- When the battery pack is not in use, it must be stored in a cool, dry place.
- Do not leave the battery pack in a place where it might be subject to a high temperature (under direct sunlight in a car, etc.), this could cause leakage of the fluid or shorten service life
- When the terminal section of the battery pack gets dirty, the operating time will be shortened.
- If the operating time becomes greatly reduced even immediately after recharging, the service life of the battery pack is nearly finished. Purchase a new battery pack.

Recharging

- Recharge the battery pack after completely discharging it.
 Repeated recharging with residual charge remaining could result in reduced battery capacity.
- If the battery capacity is reduced by repeating incomplete recharging, or recharging without discharging, once discharge the battery pack completely, then recharge it to restore the battery capacity.
- If the battery pack is recharged with its internal temperature raised immediately after use, recharging may not be performed completely.

5. PREPARATIONS

5-1 Turning the Power ON



- 1. Select the power supplying method to the unit with the POWER switch.
- . When supplying power to the unit from the DC IN connector or battery, set the POWER switch to DC IN/BATT.
- . When supplying power to the unit from camera control unit through the VTR/RM multi-pin connector, set the switch to RM.

- Memo: -

It is not possible to supply power to the main unit from an external VCR through the VTR/RM multi-pin connector. When the POWER switch is set to RM, power supply other than the camera will no turn on during the following conditions. At this time, the FULL AUTO lamp will flash.

- . When the MODE switch is set to VTR.
- · When the MODE switch is set to RM and remote control signals are not being received from the camera control unit.
- 2. Turn the OPERATE switch to ON.
- The power is then supplied to the unit.
- Video image is output to the viewfinder.
- The display of the VCR section is turned on.
- 3. Select the GY-DV550 operation mode with the VTR switch.
 - The GY-DV550 operation mode may differ when the power is turned ON and when the cassette is loaded depending on the setting of the VTR switch as follows:

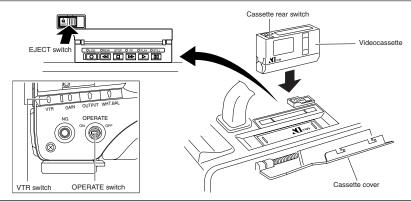
VTR switch setting	GY-DV550 operation mode
SAVE	GY-DV550 enters the SAVE mode (tape protect mode) and stops the drum motor. "SAVE" is displayed in the VCR operation indicating section of the Status 1 mode screen in the viewfinder. In this mode, the tape is effectively protected. In this condition, press the VTR trigger button to start recording. However, it takes longer for the operation to take place from this condition than from the STBY mode.
STBY	When a recordable videocassette is loaded, the GY-DV550 enters the record-pause mode automatically. (The drum motor is still rotating.) "STBY" is displayed on the Status 1 screen in the viewfinder. In this condition, pressing the VTR trigger button starts recording immediately.

CAUTION:

- Wait at least 5 seconds before turning the OPERATE ON again once it has been turned OFF.
- When the OPERATE is turned OFF, the unit automatically enters the tape protect mode. It takes approximately 5 seconds to
 enter the tape protect mode. Do not turn the OPERATE ON again within this interval.
- . External VCR will not enter the SAVE mode.
- Do not directly turn the POWER switch to OFF with a tape inserted. (The unit will not enter the tape protect mode.)

5. PREPARATIONS

5-2 Cassette Loading and Unloading



- A cassette cannot be loaded or unloaded while the GY-DV550 is in OPERATE OFF mode.
- · Use a videocassette tape marked MiniDV.
- The videocassette should be held vertical and inserted straight into the slot.

Loading the Cassette

- 1. Set the OPERATE switch to ON.
- Slide the EJECT switch to the side to open the cassette cover.
- **3.** Insert a videocassette into the cassette slot after removing the tape slack.

Ensure that the videocassette is fully inserted.



The cassette indicator on the display blinks during tape loading and lights steadily after the loading has been completed.

- 4. Slowly close the cassette cover by pushing it in all the way. When the cassette cover is closed, the OPERATE LED lights up green and the unit is in the condition where it can be operated. In the SAVE mode, the OPERATE LED lights orange.
- The condition at the completion of loading varies depending on the position of the VTR switch and the switch on the back of the videocassette as shown below.

VTR switch	Switch on Back of Videocassette	
VIA SWILCH	REC	SAVE
STBY	Enters record- pause mode after back-spacing.	The unit enters stop mode. "REC INH" is
SAVE	In the record-pause mode and the drum rotation is stopped.	displayed for a few seconds on the counter display.

* Recording can be started by pressing the VTR trigger button from the record-pause condition. For details on how to record, see page 53.

After the cassette cover is closed, it takes about 8 seconds before the unit can start recording or before it enters the stop mode.

CAUTION:

The GY-DV550 cannot be operated while the cassette cover is open. Make sure to close the cover before operating the unit

Unloading the Cassette

- 1. Set the OPERATE switch to ON.
- 2. Slide the EJECT switch all the way to the side to start tape ejection.



The cassette indicator on the display blinks during tape ejection and turns off after the ejection has been completed.

- It takes a few seconds before the cassette is ejected after the EJECT switch is moved.
- 3. Take out the videocassette
- 4. Close the cassette cover.

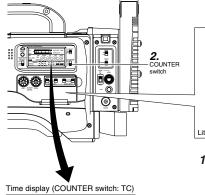
-CAUTION:

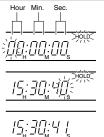
Do not leave the unit for a long period with the cassette cover open as dirt or other foreign objects may enter the VCR section and cause malfunction.

5. PREPARATIONS

5-3 Setting the Date and Time

The date and time of the built-in clock should be set. Powered by the backup lithium battery, the set date and time data continue to count even when the power is switched off. Whether to display the set date and time data on the viewfinder and whether to record the data on the sub-time code area of the tape during recording can be set in DISPLAY item of the Camera TIME DATE menu screen.



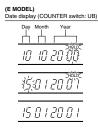


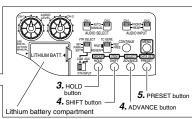
(U MODEL)
Date display (COUNTER switch: UB)

Month Day Year

10 10 20 31 31

0 1 15 20 0 1





- Check that the lithium battery has been inserted.
- Turn ON the power and set the counter display to the date/ time mode.
 - Set the VCR Setup Menu item No. 516 DISPLAY SELECT to "CLOCK" and then press the DATA SET button.
 - See "Displaying and Setting VCR Setup Menus" on page 73.
 - See "VCR Setup Menu Contents" on page 75.
- Set the COUNTER switch to TC or UB.
- To set the time: Set the switch to TC.
 The time (Hour, Min., Sec.) is indicated on the counter display. (24-hour clock system)
- To set the date: Set the switch to UB.
 The date (Month, Day, Year) (U MODEL)/(Day, Month, Year) (E MODEL) is indicated on the counter display.
- 3. Press the HOLD button to enter the setting mode. The "HOLD" indicator lights up on the display to indicate that the unit is in the setting mode. The leftmost digit on the counter blinks.
- 4. Set the date and time.
 - Each time the ADVANCE button is pressed, the value of the blinking digit increases.
 - Each time the SHIFT button is pressed, the digit to the right of the currently blinking one starts blinking. When pressed while the rightmost digit is blinking, the leftmost digit starts blinking again.

Repeat the above procedure to set the value of all the digits.

To decide the set date and time data, press the PRESET button.

The "HOLD" indicator on the display turns off and the date/time display stops blinking.

The time starts counting.

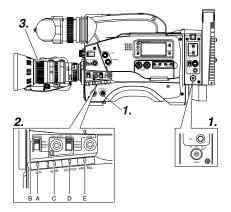
- When setting DISPLÄY item of the Camera TIME DATE menu screen to ON, the date and time data are displayed on the viewfinder. In addition, the time and date data are recorded on the tape during recording. The viewfinder display format can be selected in the Camera TIME DATE menu screen.
- See "Time/Date Display" on page 30.
- See "TIME DATE screen" on page 84.

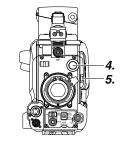
-Memo:

To display and set the time code or user's bit, set the VCR Setup Menu item No. 516 DISPLAY SELECT to "TC".

6. SETTING AND ADJUSTMENTS BEFORE SHOOTING

6-1 Camera Settings





1. POWER ON

- ① First place a charged battery pack in the battery case on the rear section of the unit. If battery pack is not used, connect DC power to the DC INPUT connector on the rear section of the unit using the AC power adapter (AA-P250) to supply DC 12 V current.
- 2) Set the OPERATE switch on the unit to ON.

2. SWITCH positions

- A. Set the VTR switch to STBY.
- B. AUTO IRIS switch: set to NORMAL.
- C. GAIN switch; set to L. The L position is 0 dB.
- D. OUTPUT switch; set to CAM\AUTO KNEE OFF.
- E. WHT. BAL (Auto White Balance) switch; set to A or B.
- 3. Set the lens' iris mode switch to "A" (AUTO IRIS side)
- **4.** Choose the proper color temperature conversion filter.

	FILTER	Suitable Location
1	3200K	Indoors, dark outdoors
2	5600K+1/8ND	Outdoors
3	5600K+1/64ND	Outdoors under clear sky

5. Using the SHUTTER dial, set the shutter speed to OFF.

6-2 Screen Size (4:3/16:9 aspect ratio) Mode Selection

The screen size of recorded images can be selected in ASPECT RATIO item of the Camera OPERATION menu screen. See page 79

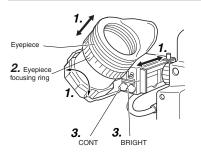
- To record using the standard screen, set ASPECT RATIO to 4:3.
- When setting ASPECT RATIO to LETTER, images are recorded on a screen of 16:9 aspect ratio split horizontally. In this case, the viewfinder screen will show a 16:9 screen that is horizontally split.

Memo:

- The safety zone of the standard screen or 16:9 screen can be displayed on the viewfinder by setting SAFETY ZONE item of the Camera VF DISPLAY menu screen.

 See page 78.
- When setting ASPECT RATIO to LETTER, 16:9 screen detection ID signal will not be outputted from the Y/C OUT connector.

6-3 Viewfinder Adjustment



- 1. Adjust the position and angle of the viewfinder.
- 2. Diopter adjustment

Rotate the eyepiece focusing ring until the viewfinder screen image is clearly visible.

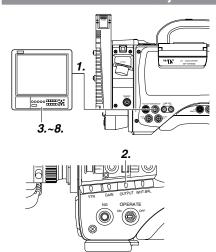
3. Brightness and contrast adjustment

When the ambient brightness changes, etc., the brightness and contrast of the viewfinder screen can be adjusted with the BRIGHT and CONT controls.

Memo

The screen size of the viewfinder can be changed by selecting ASPECT RATIO (4:3 or 16:9 aspect ratio screen) in the OPERATION MENU screen.

6-4 External Monitor Adjustment



■ SMTPE type color bars (U MODEL)

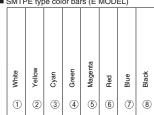
White	Yellow		Су	an	Green	Magenta	Red		Blue	
1	2		(3)	4	(5)		6		7
Blue 8	1 /	ack	Mag (1	_	Black	Cyan 12		Black 13		White
Black (15)		Wh			Black		18	19	20	21)

The color bar screen has a configuration as shown above. The description hereinafter refers to the positions in the color bar screen using the numbers.

Display the camera built-in color bar signal on the video monitor and adjust the colors, contrast and brightness.

- Connect a color video monitor to the MONITOR OUT connector of the GY-DV550.
- Set the OUTPUT switch to BARS to output the color bar signal (SMTPE (U MODEL)/EBU (E MODEL) type color bars).
- **3.** Set the monitor's BLUE CHECK function to ON so that the screen turns entirely blue.
- **4.** Adjust the CHROMA control of the monitor so that there is no difference in brightness between the color bars ① and ⑧, ⑦ and ⑭.
- 5. With the BLUE CHECK function ON, adjust the PHASE control of the monitor so that there is no difference in brightness between the color bars ③ and ⑩, ⑤ and ⑫.
- 6. If the phase control adjustment above causes a difference in brightness between the color bars ① and ⑧, ⑦ and ⑭, start again from the CHROMA control adjustment in step 4.
- 7. Set the monitor's BLUE CHECK function to OFF to switch the monitor back to the standard screen (R, G and B will all appear).
- 8. Use the monitor's brightness control to adjust so that the color bars ® and ® disappear but ② is visible.

■ SMTPE type color bars (E MODEL)

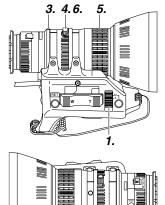


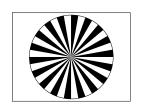
The colour bar screen has a configuration as shown above. The description hereinafter refers to the positions in the colour bar screen using the numbers.

6. SETTING AND ADJUSTMENTS BEFORE SHOOTING

7.8.10.

6-5 Back Focus Adjustment





Siemens star chart

It is only necessary to perform this when the lens is attached for the first time or when focusing is not correct in both the telephoto and wide-angle positions. Adjust the viewfinder for sharpness first.

It is easier to adjust back focus when the subject is more than 3 meters from the camera.

The optimal subject for this adjustment is a Siemens star chart

- 1. Set the IRIS mode switch to M (Manual).
- 2. Set the zoom mode to MANU (Manual).
- **3.** Open the iris ring. If the illumination is too strong, reduce it or move to a darker place.
- Turn the zoom lever until the lens is at the maximum telephoto position.
- 5. Bring the subject into focus.
- 6. Set the lens to maximum wide-angle.
- 7. Loosen the back focus ring retaining knob.
- **8.** View the same subject and adjust the back focus ring for the best possible focus.
- **9.** Repeat steps **4.** through **8.** about three times for fine adjustment until the subject remains in focus in both the telephoto position and the wide-angle position.
- 10. Tighten the back focus ring retaining knob to secure the ring.

-Memo:

ACCU FOCUS can also be used in the above step 3.

6-6 White Balance Adjustment

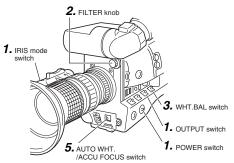
Since the color of light (color temperature) varies depending on the light source, it is necessary to re-adjust the white balance when the main light source illuminating the subject changes.

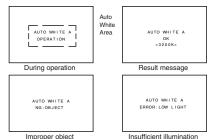
-Note

When a subject illuminated by a halogen lamp with a color temperature of 3,200K is shot while the color temperature conversion filter setting is set to 5,600K + ND, a proper white balance adjustment and (FAW) Full Time Auto White balance may not be accomplishable. In this case, change the color temperature conversion filter setting to 3,200K and then carry out the white balance adjustment and (FAW) again.

• Do not adjust using any highly reflective objects, such as metal, etc., as this may result in improper white balance adjustment.

WHITE BALANCE ADJUSTMENT





AUTO WHITE A ERROR: OVER LIGHT

Excessive illumination

Two kinds of white balance adjustment results can be stored in memories AUTO1 and AUTO2.

■ Adjustment procedure

- 1. Set the following switches.
 - Set the OPERATE switch to ON.
 - Set the OUTPUT switch to CAM-AUTO KNEE OFF.
 - Set the IRIS mode switch of the lens to A (Auto).
- 2. Set the FILTER knob according to the current lighting.
- 3. Set the WHT.BAL switch to A or B.
- 4. Place a white object near the centre of the screen under the same lighting conditions as the target subject and zoom in to fill the screen with white.
- **5.** Tilt the AUTO WHT./ACCU FOCUS switch upward (to AUTO WHITE) once and release it.
- "AUTO WHITE A, B OPERATION" is displayed in the viewfinder while the auto white balance adjustment circuit operates.

When the white balance has been adjusted correctly, the approximate color temperature is displayed together with "AUTO WHITE A. B OK" for about 5 seconds.

Error messages

If the adjustment ends abnormally, an error message, as described below, blinks for about 5 seconds.

• NG: OBJECT (Improper object)

Displayed when there is not enough white color on an object or the color temperature is not suitable.

Replace the color temperature conversion filter or use another white object and re-adjust the white balance.

ERROR: LOW LIGHT (Insufficient illumination)

Displayed when the illumination is dim. Increase the illumination and then re-adjust the white balance.

• ERROR: OVER LIGHT (Excessive illumination)

Displayed when the light is excessively bright. Decrease the illumination and then re-adjust the white balance.

—CAUTION:

- The FAW (Full-time Auto White balance) function cannot provide optimum white balance with a subject outside the FAW adjustment range, for example when it contains only a single color or not enough white color.
- The accuracy of the FAW (Full-time Auto White balance) is inferior to that of the manual white balance.
- When the power is turned on with the FAW mode selected, it takes about 10 seconds for the FAW adjustment to be completed. Do not shoot within this interval

FULL-TIME AUTO WHITE BALANCE (FAW)

The FAW function adjusts the white balance value automatically as the lighting condition changes.

This mode is convenient when you have no time to adjust the white balance or when the camera is moved frequently in and out of places under different lighting conditions.

■ Setting procedure

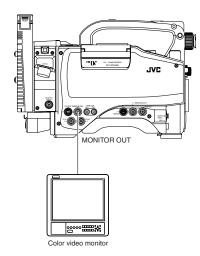
The FAW function can be activated with item "FAW" on the OPERATION MENU.

This item allows allocation of the FAW function to one of the WHT.BAL switch positions, A, B or PRESET.

See "OPERATION SCREEN" on page 79.

6. SETTING AND ADJUSTMENTS BEFORE SHOOTING

6-7 Mixing Characters to MONITOR OUT



When mixing characters in the MONITOR OUT connector video, set CHARACTER in the Camera SETUP MENU screen to ON.

See page 83

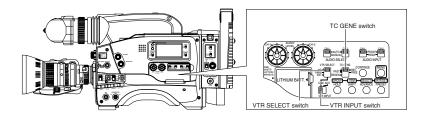
Various characters (status screen display) are displayed by superposing the camera or external input images.

−Memo

- Color signals are not included in the return video signals of the external VCR connected to the VTR/ RM multi-pin connector.
- When setting CHARACTER MIX to OFF, characters will not be displayed on the images from the MONITOR OUT connector.

E-E images/playback image are outputted as monitor output (composite video signals).

6-8 Switch Settings of the VCR Section



■ Selecting the video input signals

Video signals recorded on this unit is selected using the VTR INPUT switch.

- . When recording camera images, set to CAM.
- · When recording composite video signals from the GENLOCK/AUX IN connector, set to AUX. See "Recording External Video Signals" on page 57

■ Selecting the VCR to record

Whether to record using this unit or the external VCR connected to the VTR/RM multi-pin connector is selected using the VTR SELECT switch.

- . When recording with this unit only, set to INT.
- When recording with an external VCR, set to EXT or PARA. See "Recording with an external VCR" on page 58

■ Audio input signal selection

Use the AUDIO INPUT switch to select whether the sound recorded on audio channel 1 or 2 is the sound from the AUDIO INPUT connector on the front section or the sound from the AUDIO INPUT connector on the rear section. See page 50.

■ Audio recording level adjustment selection

Select "AUTO" or "MANUAL" for the recording level adjustment mode for each audio channel. See page 51.

■ VCR Setup Menu setting

REMOTE SELECT

Confirm that "LOCAL" is selected if you want to operate on the GY-DV550 only.

BACK TALLY MODE

Select the lightning pattern of the BACK TALLY lamp.

INPUT SELECT

Select the input video signal (camera images or DV terminal images). To record the GY-DV550's camera image, set to

LOW CUT IN

For each audio input connector, select whether or not the lower frequency components of the audio signal are cut. Set to this position to eliminate the wind noise of the microphone.

SAMPLING RATE

Select the sampling rate for audio recording (48 kHz or 32

• CH1 FRONT VR ENABLE

Set whether or not the front section's audio volume control should be used. The front section's audio volume control only affects the CH1 audio channel.

AUDIO REF. SIGNAL LEVEL

The reference recording level to the tape is selected (-20dB

LONG PAUSE TIME

Select the time (in minutes) until the GY-DV550 enters the tape protection mode (drum rotation stops) when the recordpause mode is continued for long time.

Select the mode of the S.S.F. (Super Scene Finder) function. S.S.F. function: Stores the time code of desired scenes or cue points in the unit's memory.

See "S.S.F. function" on page 66.

DISPLAY SELECT

Select the counter display (time code or date/time indication) when the COUNTER switch is set to "TC" or "UB".

■ Setting the time code recording function

The GY-DV550 records SMPTE-standard (U MODEL)/EBUstandard (E MODEL) time code during recording. Set the switches according to applications.

- To record a time code as set in the built-in time code generator:
- · Set the TC GENE switch to REC.

This position allows you to record continuous time codes when recording scenes one after another.

VCR Setup Menu setting (U MODEL)

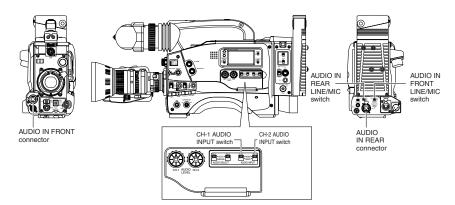
Select the time code generator's framing mode as drop frame or non-drop using the VCR Setup Menu item No. 416 "MON DROP/DROP"

- To record a time code in continuation of the existing time code on the tape:
- Set the TC GENE switch to REGEN.
- Set the VCR Setup Menu item No. 302 BACK SPACE to "CTANDARD"

For details on the time code operations including time code presetting, see "TIME CODE OPERATION" on page 62.

6. SETTING AND ADJUSTMENTS BEFORE SHOOTING

6-9 Audio Input Signal Selection



The GY-DV550 is provided with the AUDIO INPUT connector on the front section and the AUDIO INPUT connectors at the rear section for audio input.

Two channels of sound can be recorded on the tape in digital

Using the AUDIO INPUT switch, select for each channel (CH1 and CH2) whether the sound to be recorded should be the sound from the AUDIO INPLIT connector on the front section. or the sound from the AUDIO INPUT connectors on the rear

■ Selecting the CH-1 channel input sound

Make the selection using the CH-1 AUDIO INPUT switch.

FRONT: The sound from the AUDIO INPUT connector on the front section is recorded on the CH-1 channel.

: The sound from the AUDIO INPUT connector on

the rear section is recorded on the CH-1 channel.

■ Selecting the CH-2 channel input sound

Make the selection using the CH-2 AUDIO INPUT switch.

FRONT: The sound from the AUDIO INPUT connector on the front section is recorded on the CH-2 channel.

REAR : The sound from the AUDIO INPUT connector on the rear section is recorded on the CH-2 channel.

■ Selection of front audio input and rear audio input connectors

Select the audio signal input to the AUDIO IN FRONT and AUDIO IN REAR connector using the [LINE/MIC] switch. Make settings for the AUDIO IN FRONT and AUDIO IN REAR connectors separately.

: Set to this position when connected to audio equipment, etc.

The reference input level is +4 dBs.

: Set to this position when using a monaural microphone.

The reference input level is -60 dBs.

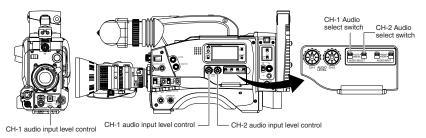
MIC +48 V : Set to this position when a microphone (phantom microphone) requiring +48 V DC

power supply is connected.

When connecting a component that does not require +48 V power supply, make sure that the LINE/MIC switch is not set to MIC +48V.

Neglecting this could cause damage to the connected component.

6-10 Audio Input Level Adjustment



For each audio channel, use the AUDIO SELECT switches to select whether the audio input level adjustment should be set to AUTO mode or MANUAL mode.

- When set to AUTO: Audio input level is fixed. In this mode, the audio input level control does not function.
- When set to MANUAL: Audio input level can be adjusted using the audio input level controls for each audio input.

Memo:

The reference level for audio input to tape can be set in VTR Setup menu No. 257 AUDIO REF. SIGNAL LEVEL (-20dB or -12dB). The level will change for both CH1 and CH2.

■ Adjusting the audio input level control of the front section

The audio input level control on the front section only affects the CH-1 channel sound.

To use the audio input level control on the front section, make the following settings.

- Set the CH-1 AUDIO SELECT switch to MANUAL.
- Set the VCR Setup Menu item No. 246 CH1 FRONT VR ENABLE to "ENABLE".

-CAUTION:

The audio input level controls on the side section work regardless of the setting of the VCR Setup Menu item No. 246 CH1 FRONT VR ENABLE.

Manual Adjustment of Audio Input Level

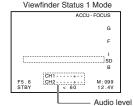
The audio input level can be adjusted manually when the GY-DV550 is in the record, record-pause or stop mode.

- Set the AUDIO SELECT switch of the channel whose audio input level that you want to adjust manually to MANUAL.
- Rotate the audio input level control corresponding to the audio input to be adjusted.
- Adjust so that the peak level does not exceed the -3dB point when a loud sound is input.

How to use the audio input level control on the front section

- Set the audio input level control on the front section to maximum (10) position.
- Initially, adjust the audio input level using the CH1 recording level control on the side.
- ③ When a loud sound is input during recording, use the audio input level control on the front section to lower the audio input level.





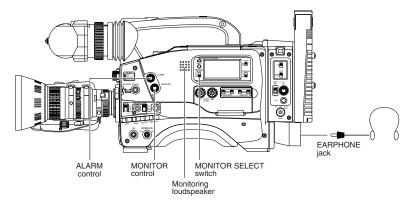
Indicator level (reference)

-CAUTION:

When the AUDIO INPUT LINE/MIC switch on the rear section is set to MIC, be sure to check that the microphone is connected to the AUDIO IN FRONT or AUDIO INPUT REAR connector. If the microphone is not connected, increasing the audio input level could cause noise from the input connector to be recorded on the tape. When the microphone is not connected to the front AUDIO INPUT or rear AUDIO INPUT connector, set the LINE/MIC switch to LINE or turn down the audio input level control.

6. SETTING AND ADJUSTMENTS BEFORE SHOOTING

6-11 Monitoring Audio during Recording

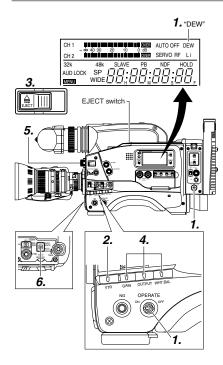


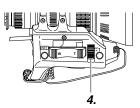
The audio input during recording, in record-pause or stop mode can be monitored through the monitoring loudspeaker or earnhone

- The monitoring audio is not output from the loudspeaker while the EARPHONE jack is in use.
- Select the audio channel to be monitored using the MONITOR SELECT switch.
- CH-1: The sound input to the CH-1 channel is output.
- MIX : The sound input to the CH1 and CH2 channels is output mixed.
- CH-2: The sound input to the CH-2 channel is output.
- The MONITOR volume control adjusts the monitoring volume.
- The loudspeaker or earphone outputs an alarm tone in the case of an abnormal condition occurring in the unit.
 An alarm tone is also output when the tape end is reached or when the battery is running down. The alarm tone volume can be adjusted with the ALARM control. For details on the alarm tone, see page 97.
- * Do not increase the audio monitoring volume excessively; otherwise howling with the camera microphone may occur.

52

7-1 Basic Recording Operation







 Set the POWER switch to DC IN/BATT and turn the OPERATE switch to ON.

Power is supplied to the unit.

Check that the condensation indicator "DEW" does not appear on the display. If it is lit, wait until the indicator goes out

2. Set the VTR switch to the STBY position.

Even when the VTR switch is set to the "SAVE" position, pressing the VTR trigger button will start recording. However, in this case, it is necessary to wait a short time until the recording actually starts.

For details on the SAVE mode, see page 55.

- 3. Slide the EJECT switch to open the cassette cover.
 - Ensure that the switch on the back of the videocassette is set to REC and insert the cassette correctly.
 When the cassette is inserted, the tape is loaded and the unit enters the record-pause mode.
 - Slowly close the cassette cover.
 - Use a videocassette marked MiniDV.
 - If the cassette cover is not closed, the GY-DV550 will remain inoperative.
 - Following loading of the cassette and when the OPERATE switch is turned ON/OFF, the built-in head cleaner will emit a sound while operating. This does not indicate a malfunction.
 - After the cassette cover is closed, it takes about 8 seconds before the unit is ready for recording.
- 4. Set the switches as required.
- GAIN : Sensitivity suitable for the subject
 OUTPUT : "CAM/AUTO KNEE ON"
- OUTPUT : CAM/AC
- WHT-BAL : "A" or "B"
- . Set the IRIS switch of the lens to "A".
- **5.** Select the FILTER according to the lighting condition.

Position 1 (3200K): For shooting indoors or outdoors when

illumination is not sufficient

Position 2 (5600K + 1/8ND):

For shooting outdoors.

Position 3 (5600K + 1/64ND):

For shooting outdoors under a clear sky.

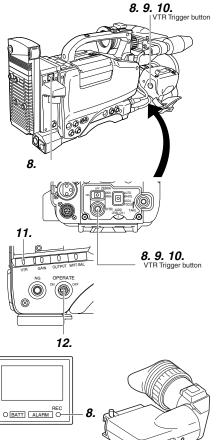
- 6. Adjust the white balance.
 - See "White Balance Adjustment" on page 47.
- 7. Point the camera at the subject and determine the angle of view and focus with the zoom lever and the focusing ring.

For servicing

The QUICK REC mode of this unit is different from conventional models such as GY-X1, GY-X2 and GY-X2B. It is not a fully automatic mode operation. In this case it is a function that shortens the time initial on the start of the recording.

7. SHOOTING OPERATION

7-1 Basic Recording Operation (Cont'd)



Press the VTR trigger button on the GY-DV550 or lens to start recording.

Once recording has started, the BACK TALLY lamp on the rear section of the unit and the tally lamp on the viewfinder light red, and the REC indication in the viewfinder lights green.

-Note:

- * The lightning conditions of the BACK TALLY lamp on the rear section of the unit can be changed by setting the VCR Setup Menu item No. 082 BACK TALLY MODE.
- * The lamp in the viewfinder and on the front section will blink from when the button is pressed and until recording actually starts.
- 9. To stop recording, press the VTR trigger button again. The TALLY lamp and REC indicator lamp go out and the unit enters the record-pause mode.

When the VTR trigger button is pressed, the unit enters the record-pause mode after rewinding the tape for about 2 seconds (back-spacing).

10. To restart recording:

Press the VTR trigger button on the GY-DV550 or lens.

11. Ending recording:

Enter record-pause mode and perform the following operations as required.

■ When it is required to unload the videocassette:

- Slide the EJECT switch.
- When it is required to put the unit in save mode:
- Set the VTR switch to SAVE.
 Drum rotation stops and the GY-DV550 enters the tape protection/power-saving mode.
- 12. When shooting is completely finished, eject the cassette and set the OPERATE switch to "OFF".

When the unit is not going to be used for a long period, detach the battery pack.

About the QUICK REC START Mode

If the VTR trigger button is pressed immediately after the videocassette is inserted, the mode becomes the QUICK REC START mode that enables quick start of recording. However, when shooting starts in the middle of the tape, a blank space appears as the new scene will not be linked smoothly with the previous image.

Also, the time code does not continue. (Some overlap may also occur.)

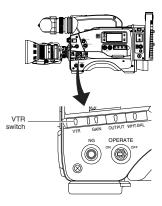
- Note:

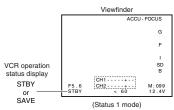
• The unit enters stop mode at tape-end automatically, and if kept longer than 3 minutes or 30 minutes in this mode, SAVE mode is maintained. See "Menu No. 307: LONG PAUSE TIME" on page 75.

8. TALLY lamp

- If the VTR trigger button is pushed very quickly and repeatedly, or the OPERATE switch is moved immediately after being
 pressed, the viewfinder REC indicator lamp may blink and the GY-DV550 may not enter the record mode. To remedy this
 condition set the OPERATE switch to OFF and wait for 5 seconds or more before turning the power on again.
- A neat transition to the next recorded scene cannot be guaranteed if you end a recording by turning the OPERATE switch, POWER switch or DC power supply OFF, or by removing the battery pack.
- Before recording a scene that is particularly important, perform test shooting to ensure that normal recording is possible.
- The power consumption can be reduced by setting the LIGHT switch on the display and TALLY lamp to OFF.
- The microphone may pick up the sound of the lens' iris if the iris is changed abruptly or the iris is manually moved abruptly
 during recording. If you find the noise annoying, please purchase an optional microphone in order to move the microphone
 away from the lens or ensure that the iris is not changed abruptly during shooting.

7-2 VCR Save Mode





When a recordable videocassette is loaded, the GY-DV550 enters the record-pause mode. However, the record-pause operation condition differs depending on the setting of the VTR switch.

VTR switch setting

- STBY: The GY-DV550 enters the record-pause mode, and the drum is rotating at this time. (Standby mode) The "STBY" indicator appears in the VCR operation status display in the viewfinder (in Status 1 mode).
 - In this condition, recording starts immediately when the VTR trigger button is pressed.
- SAVE : The GY-DV550 enters the record-pause mode but the drum is not rotating. (Save mode).
 - The tape is protected.
 - The "SAVE" indicator appears in the viewfinder (in Status 1 mode).

The OPERATE indicator lights orange.

-CAUTION:

- When the VCR Setup Menu item No. 396 SSF MODE is set to the CUE MODE or MARK mode, the VCR save mode is not entered.
- External VCR will not enter the SAVE mode

Recording from the Save mode

 In the save mode, pressing the VTR trigger button will start recording.

However, in this case, it takes several seconds before the GY-DV550 starts recording.

 Pressing the VTR trigger button again interrupts the recording and the GY-DV550 enters the save mode again.

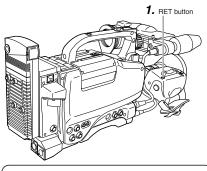
7-3 If Unit is Left in Record-Pause (Standby) Mode

When the GY-DV550 has remained in record-pause (standby) mode for about 30 minutes, the unit enters the save mode, in which the drum rotation is stopped automatically and the tape tension is released. (Tape protect mode)

- To start recording from the tape protect mode, press the VTR trigger button; the drum starts to rotate and recording starts in about 3 seconds.
- To return to the record-pause mode from the tape protect mode, press the VTR trigger button TWICE; the drum starts to rotate.
- The time until the unit enters the tape protect mode after it is placed in record-pause mode can be set to 3 minutes or 30 minutes with the VCR Setup Menu item No. 307 LONG PAUSE TIME.
- When used in a cold environment, the setting will be 3 minutes regardless of the setting on the VCR Setup Menu.
- See page 75.

7. SHOOTING OPERATION

7-4 Checking Recorded Contents in Record-Pause Mode (Recording Check Function)

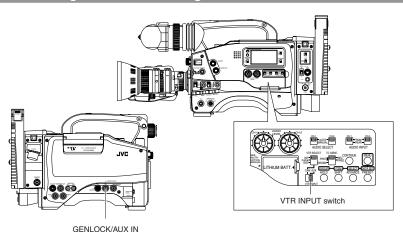


- * During recording check, the following indications will appear if the error rate increases due to head clogging, etc.
- . "RF" appears on the display panel.
- "HEAD CLOG" appears on the counter display.
- "VTR WARNING (HEAD)" appears in the viewfinder.
- * Recording check cannot be performed for an external VCR.

In the record-pause or stop mode, approximately 7 seconds of the last recorded portion can be played back.

- The recorded contents can be checked in the viewfinder or on a monitor connected to the MONITOR OUT or Y/C OUT connectors
- In the viewfinder or on the monitor connected to the MONITOR OUT or Y/C OUT connectors, the video image from the VCR section is output.
- In the record-pause or stop mode, press the RET button on the camera lens section.
 - The tape is slightly rewound and played back for approximately 7 seconds.
 - After playback is finished, the tape returns to the position at which the RET button is pressed and the record-pause mode resumes.
- When the RET button is kept pressed, the tape is rewound and played back for approximately 18 seconds at maximum.
- While the RET button is pressed, the record-mode is not entered even if the VTR trigger button is pressed.

7-5 Recording External Video Signals



Other than camera images, composite video signals from an external device connected to the GENLOCK/AUX IN connector can also be recorded with this unit.

When recording external video signals, perform the following connection and setting.

■ Input the stabilized composite video signals to the GENLOCK/ AUX IN connector.

Input level: 1V (P-P) ±0.3V (P-P)

■ Set the VTR INPUT switch to AUX.

- Memo:

- External video signals can only be recorded on the VCR of this unit. The VTR SELECT switch setting is ignored.
- External video signals will not be recorded on the external VCR connected to the VTR/RM connector.
- During external video signal recording, recording check by pressing the RET button on the lens section cannot be performed.
- When setting the VTR/RM switch to RM, external video signals will not be recorded even if the VTR INPUT switch is set AUX.
- The GENLOCK/AUX IN connector will function as a synchronous signal input connector.
- The camera images will be outputted from the VIDEO OUT connector and VTR/RM multi-pin connector even when setting the VTR INPUT switch to AUX. For details concerning the output images when setting
- For details concerning the output images when setting the VTR INPUT switch to AUX, see the following table.
- Whether to add setup signals can be selected in SETUP item of the Camera SETUP menu screen. (U MODEL)

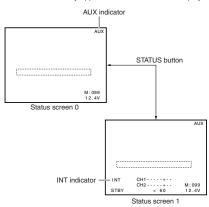
Output signals when setting the VTR INPUT switch to AUX

Viewfinder	MONITOR OUT			VTR/RM (26-pin)
AUX (external) video	AUX (external) video	AUX (external) video	Camera images	

■ About the status screen display of the viewfinder

During external video signal recording, camera setting related information will not be displayed on the status screens. The displayed status screens are as follows:

- Status screens 0 and 1 are displayed. Status screen 2 will not be displayed.
- AUX will appear on the upper right of the screen.
- INT will constantly appear in the VTR SELECT display.

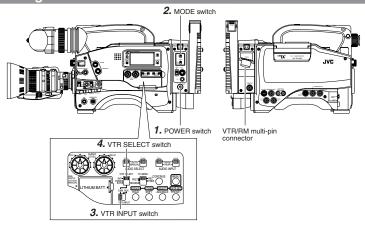


-CAUTION:

Do not change the VTR INPUT switch setting during recording.

7. SHOOTING OPERATION

7-6 Recording with an External VCR



With this unit, camera images can be recorded on an external VCR connected to the VTR/RM multi-pin connector.

There are 2 types of external VCR recording: parallel recording where recording is performed on both the unit and external VCR and independent recording where recording is performed only on the external VCR.

When recording on an external VCR, perform the following connection and settings.

 Connect the external VCR to the VTR/RM multi-pin connector. See the following table for compatible VCRs and connecting cables.

Connecti	ng VCR	Connecting cable
Model	Connector	Connecting cable
S-VHS (U MODEL) BR-S405	14-pin	VC-P482 (2m) VC-P484 (4m)
D9 BR-D40+SA-S40	26-pin	VC-P454B (4m)

For the connection of other VCRs, contact your nearest JVC dealer.

Settings

1. Selecting the power source
Set the POWER switch to DC IN/BATT.

-CAUTION:

It is not possible to supply power to the main unit from an external VCR through the VTR/RM multi-pin connector.

2. Selecting the device connected to the VTR/RM multi-pin connector

To connect the external VCR, set the MODE switch to VTR.

3. Set the VTR INPUT switch to CAM.

Memo:

External video signals will not be outputted to the VTR/RM connector (26-pin) even when setting the VTR INPUT switch to AUX.

- **4.** Select the recording VCR using the VTR SELECT switch.
 - For parallel recording (this unit and external VCR), set the switch to PARA
 - To record only with the external VCR, set the switch to EXT.

Memo

VTR SELECT information is displayed in status screen 1 of the viewfinder according to the VTR SELECT switch setting (PARA or EXT display).

 The output video signals from the VTR/RM multi-pin connector can be selected in 26 PIN OUT item on the Camera SETUP menu screen.

Other than composite signals, another type of video signals can be selected.

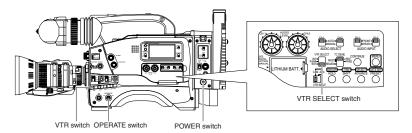
(Y/C, RGB, and component video signals)

See "26 PIN OUT" on page 83.

Memo:

Only CH1 audio signal will be outputted from VTR/RM multi-pin connector for the audio signal.

7-6 Recording with an External VCR (Cont'd)



Operation

- 1. Set the OPERATE switch to ON.
 - Camera images will be outputted from the VTR/RM multipin connector.
 - Standby signal will be sent to the external VCR.
- For parallel recording (this unit and external VCR), set the VTR switch to STBY.
 - · This unit will enter the standby mode.

Memo:

The external VCR will not enter the SAVE mode even when setting the VTR switch to SAVE.

- 3. Press the VTR trigger button to start recording.
- To pause recording, press the VTR trigger button again.
- During recording, the REC/ALARM lamp on the viewfinder will light. In addition, "REC 2" will appear on status screen 1 of the viewfinder.

VCR SELECT information
EXT: External VCR
PARA: External VCR + this unit
INT: This unit

- Memo:

When the VTR SELECT switch is set to EXT, the TALLY lamp turns on during recording.

About the return video/audio signal monitor of the external VCR

With this unit, the return video signals and audio signals of the external VCR can be checked through the VTR/RM multi-pin connector.

External VCR mode	Return signals		
During playback	Playback images and playback sound		
Other than playback	E-E images and E-E sound of external VCR		

Operation

1. Set the VTR SELECT switch to EXT.

-CAUTION:

Do not change the VTR SELECT switch setting during recording.

2. Press the RET button on the lens section.

The return video and audio of the external VCR can be monitored wile the RET is held down.

Return video: Can be monitored on the viewfinder.

Return audio: Can be monitored using speakers or earphones.

- Memo:

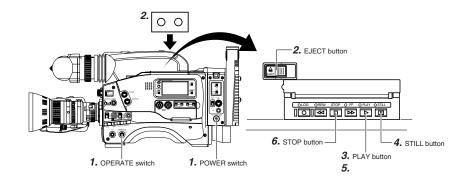
 During monitoring of the return audio, the volume can be adjusted using MONITOR volume. However, the return audio is not displayed on the audio level meter of the display. The AUDIO MONITOR switch is also disabled.

About the external VCR alarm display

- When the alarm of the external VCR is on, the REC/ALARM lamp of the viewfinder will flash. Furthermore, the REC 2 indicator on the viewfinder status screen 1 will also flash.
- The battery alarm of the external VCR will not be displayed on this unit.

8. PLAYBACK MODE

8-1 Playback Procedure



Operation

- Set the POWER switch to DC IN/BATT, and set the OPERATE switch to ON.
- 2. Load the recorded videocassette correctly.
- Slide the EJECT switch to the side. When the cassette cover opens, insert the videocassette and then close the cassette cover again.
- When a recordable videocassette (with the switch on the back of the cassette set to REC) is loaded, the unit enters the record-pause mode (STBY mode). In this case, press the STOP button to release the recordpause mode.
- 3. Press the PLAY button.
- ➡ The PLAY indicator lights and playback starts.
- **4.** Press the STILL button to stop playback temporarily.
- → The STILL indicator lights and the unit enters the still mode.
- 5. To re-start playback, press the PLAY button.
 - The STILL indicator goes out and playback starts again.
- 6. To stop playback, press the STOP button.
 - → The PLAY indicator goes out and the unit enters the stop mode.

CAUTION:

 When the still picture mode or stop mode has continued for about 30 minutes, the unit automatically switches to the save mode to protect the tape.

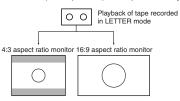
The time until the tape protect mode is initiated can be set to 3 or 30 minutes with the VCR Setup Menu item No. 307 LONG PAUSE TIME.

When used in a cold environment, the setting will be 3 minutes regardless of the setting on the VCR Setup Menu

- Noise may appear in the picture during still mode.
- When the automatic tracking function is activated at the start of the playback mode, digital noise may appear on the playback image.
- This unit does not allow manual tracking adjustment.
- When playing back a tape recorded on another unit, digital noise may appear during playback.
- When turning on the power with the tape inserted or after loading a tape, the built-in head cleaner will emit a sound while operating. However, this is not a malfunction of the unit.

Memo:

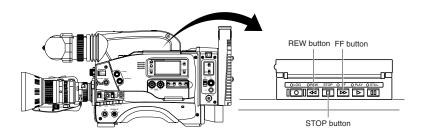
 If a tape recorded in the LETTER mode is played back on a 4:3 aspect ratio monitor TV. Images will be displayed in the letter box (16:9 aspect ratio) that is split horizontally.



- When playing back tape recorded in the LETTER or WIDE mode, 16:9 screen detection ID signal will not be outputted from the Y/C OUT connector.
- ID signal is also not outputted when inputting WIDE signals via the DV connector (IEEE1394 signals).

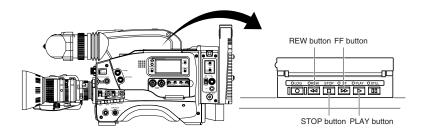
8. PLAYBACK MODE

8-2 Fast-Forward, Rewind



- Press the FF button in stop mode to fast forward the tape. Press the REW button in stop mode to rewind the tape.
- Press the STOP button to stop fast forwarding or rewinding.
- When the tape approaches the end during fast forwarding or rewinding, the tape speed decelerates to protect the tape.
- The time required for fast forwarding and rewinding may become longer when used in a cold environment. This is not a malfunction.

8-3 Search



- Press the FF button in play mode to search the tape in the forward direction at about 10 times the normal speed.
- Press the REW button in play mode to search the tape in the reverse direction at about 10 times the normal speed.
- Press the PLAY button to resume normal playback.
- Press the STOP button to stop.

- The audio is reproduced during the search.
- Video noise may be observed or the image may become unstable during the search, but this is not a malfunction.

9. TIME CODE OPERATION

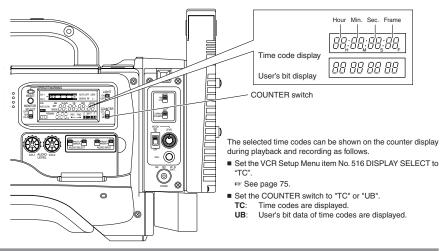
The GY-DV550 records SMPTE-standard (U MODEL)/EBU-standard (E MODEL) time codes and user's bits. In the play or record mode, the reproduced time codes or user's bits are shown on the counter display.

The LTC signal from the built-in time code generator is output through the TC OUT connector.

In the play mode, the time code recorded on the tape is not output through the units connectors.

Do not directly turn off the POWER switch in the record-pause mode; otherwise, time codes will not continue.
 Be absolutely sure to turn off the OPERATE switch beforehand.

9-1 Displaying Time Code



9-2 Presetting and Recording of Time Code

The time code or user's bit data to be recorded onto the tape can be preset to a desired value.

TC GENE Switch

ADD SPICE TO BE COME TO THE CO

■ Setting the time code related switches

• Set the TC GENE switch to REC or FREE.

REC : The data preset in the time code generator runs only during recording.

Use this setting if it is required to record continual time codes across different scenes.

* However, approximately ±1-frame variations may occur in scene transition accuracy.

FREE: The time code starts to run from the time it is preset in the time code generator.

■ Setting the VCR Setup Menu (U MODEL)

 Set the VCR Setup Menu item No. 516 DISPLAY SELECT to "TC".

Select the time code generator's framing mode using the VCR Setup Menu item No. 416 NON DROP/DROP.

DROP : The time code generator's running method is set to the drop frame mode.

Use this setting when placing emphasis on the recording time.

recording time.
The "DF" indicator lights up on the display in the

drop-frame mode.

NON DROP: The time code generator's running method is set to the non drop frame mode.

Use this setting when placing emphasis on the number of frames.

In the NON DROP frame mode, the "NDF" indicator lights on the display.



Drop frame/Non-drop frame mode (U MODEL)

In the NTSC system, the actual number of frames per 1 second is approximately 29.97 frames, but the number of frames that becomes the processing reference of the time code is 30 frames. To compensate for this difference, the mode called drop mode drops frame 00 and 01 for every minute that cannot be divided by 10.

The non-drop frame mode is when no frames are dropped and the actual time shift is neglected.

Note:

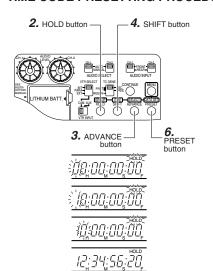
When the VCR Setup Menu item No. 398 SSF MODE is set to CUE MODE or MARK MODE, the time code generator's running method is internally set to the REGEN mode.

When this is the case and you want to enter the preset mode, set the VCR Setup Menu item No. 398 SSF MODE to "OFF", or set the TC GENE switch to the REC or FREE position again.

9. TIME CODE OPERATION

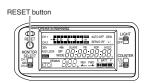
9-2 Presetting and Recording of Time Code (Cont'd)

TIME CODE PRESETTING PROCEDURE



- Display the time code on the counter display.
 Set the COUNTER switch to "TC".
 - Time code up to 23 hrs. 59 min. 59 sec. 29 frames can be preset.
- 2. Place the time code generator in preset mode. Press the HOLD button.
 - The "HOLD" indicator lights on the display to indicate the preset mode. The first digit of the counter display blinks.
- Set the value of the blinking digit. Press the ADVANCE button.
 - · The value of the blinking digit changes.
- 4. Change the blinking digit. Press the SHIFT button.
 - · The blinking digit changes.
- Set the desired value for all digits.Repeat steps 3. and 4. for each digit.
- Preset the set data in the memory. Press the PRESET button.
 - The set data is saved as the time code generator value.
 Following the above operation, the "HOLD" indicator disappears from the display, the counter stops blinking and the time code is preset.
 - If the REC/FREE switch is set to FREE, the time code starts to run.
- If you preset a wrong time code, perform steps 2. 3. 4. 5. and 6. again.

PRESETTING USER'S BIT DATA



- Pressing the RESET button in the preset mode resets the time code or user's bit data to 00 00 00 00.
- If you press the HOLD button by mistake, press the HOLD button once more to return to the previous display.

- Display user's bit data on the counter display and perform the same procedure as the time code presetting procedure.
- The user's bit can be specified using numerals or alphabetic letters from 0 to F for each digit.

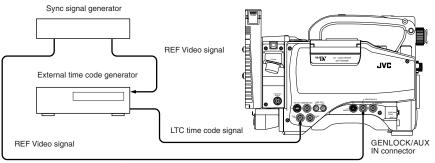
-Note:

Do not set "F" to all user's bit, or the data can not be read.

9. TIME CODE OPERATION

9-3 Recording Time Codes by Slave-Locking the Built-in Time Code Generator with External TCG

The built-in time code generator can be synchronized (slave-locked) with the SMPTE-standard (U MODEL)/EBU-standard (E MODEL) LTC time code signal which is input through the TC IN connector. Once the slave locking has been carried out, the built-in time code generator runs even when the external time code input stops. Even when the power is switched off, it continues to run on the backup lithium battery.



 Input the reference video signal into the external time code generator and the GENLOCK/AUX IN connector of this unit.

Note:

When the power is switched ON while external sync signal is input, the screen moves in a vertical direction for a few seconds. This is not a malfunction.

- Input the SMPTE standard LTC time code signal into the TC IN connector.
- 3. Display time code on the counter display.
- 4. Set the switches in the TC GENERATOR block as follows.
 - Set the TC GENE switch to "FREE".
 - * While the TC GENE switch is set to "REC" or "REGEN", slave-locking will not take place.

■ Set the related VCR Setup Menus.

- Set the VCR Setup Menu item No. 398 SSF MODE to "OFF"
- * If set to CUE mode or MARK mode, the slave-locking will not take place.
- Set the VCR Setup Menu item No. 403 U-BIT SLAVE. Set to "TC&UB" when the user's bits should also be slave-locked with the external time code generator.
- The framing mode will be the same mode as the automatically entered time code (drop frame of non-drop frame)

During the non-drop frame mode, the NDF indicator will light on the display.

During the drop frame mode, the DF indicator will light on the display.

(U MODEL)

- **5.** Set and operate the external time code generator.
 - ➡ The built-in time code generator is slave-locked with the input external time code data.

The SLAVE indicator lights on the display.



- * If the external time code generator phase is not genlocked with the phase of the camera video signals, the "SLAVE" display will flicker.
- Once slave locking has been made, the built-in time code generator keeps on running even when the external time code generator is stopped.

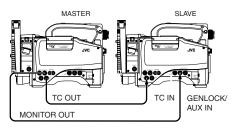
Note:

Do not connect or disconnect slaves during recording as this may disturb the servo lock.

Multi-Camcorder Master-Slave Connection

When there is only one slave GY-DV550, connect it as indicated in the figure below.

When connecting several GY-DV550s as slaves, input the REF video signal to GENLOCK/AUX IN connectors of all these units from the sync signal generator.



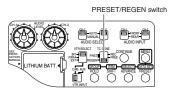
9. TIME CODE OPERATION

9-4 Recording Time Codes in Continuation of Time Codes Recorded on Tape

The GY-DV550 also incorporates a time code reader. Therefore, when the unit enters record mode from record-pause mode, it can read the time code data recorded on the tape and record time codes in continuation of the existing data. The recorded user's bit data is identical to the user's bit data recorded on tape.

* However, approximately ±1-frame variations may occur in scene transition accuracy.

To enable this, set the time code related switches as follows before starting recording.



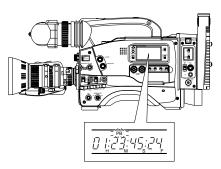
Setting

- Set the VCR Setup Menu item No. 302 BACK SPACE to "STANDARD".
- Set the VCR Setup Menu item No. 516 DISPLAY SELECT to "TC".
- See page 75.
- Set the counter display to show time codes or user's bit data.
- Set the TC GENE switch to REGEN.
- The framing mode of the time code will be the mode automatically recorded on the tape (drop frame or non-drop frame)

(U MODEL)

9-5 Reproducing Time Codes

The GY-DV550 incorporates a time code reader. During playback, the time code or user's bit data recorded on the tape is displayed on the counter display.



- Set the VCR Setup Menu item No. 516 DISPLAY SELECT to "TC".
- See page 75.
- Set the counter display to indicate time code or user's bit
- Reproducing time codes Press the PLAY button.
- The "PB" indicator lights up on the display and the time code or user's bit data are indicated.
- When playing back sections where the time code is not recorded, the time code progression stops.
 The playback mode continues.

-Note:

- Time code more than two hours can not be displayed correctly by consumer DV equipment, which has no capability to display more than two hours.
- The time code being played back will not be outputted to the TC OUT connector.

10. S.S.F. (Super Scene Finder) FUNCTION

10-1 Explanation of the S.S.F. Function

During recording, the S.S.F. function records the time code data at the point of time of a desired recorded scene in the unit's memory. Using the S.S.F. data stored in memory during after-processing of the recorded image allows efficient use of the tape. The S.S.F. function comprises the two modes CUE and MARK. Select the mode using the VCR Setup Menu item No. 398 S.S.F. MODE.

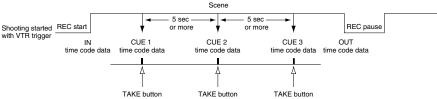
When the VCR Setup Menu item No. 398 SSF MODE is set to CUE MODE or MARK MODE, the time code generator's running method is internally set to the REGEN mode.

When shooting in either of the modes, the time code data is stored in the unit's memory when the TAKE button on the front section is pressed.

The model ID data, reel number, the number of each scene, and the time code data of IN points, OUT points, and CUE points are recorded as S.S.F. data.

■ CUE Mode:

When the TAKE button is pressed at the desired scene during shooting of a given cut, the time code data at that point is stored as CUE data in the unit's memory. The time code data at the time when recording is started or stopped with the VTR TRIGGER button are stored in the unit's memory as scene data.



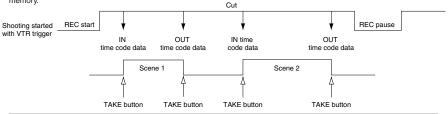
-Note:

- Leave an interval of at least 5 seconds between memorization of CUE data.
- If the TAKE button is pressed within 5 seconds from the previous point, the new point is not memorized.
- In the CUE mode, time code log data stored on the camera memory may differ from the actual time code recorded on tape at the time of pressing the TAKE button. This difference may be within 3 frames and it is not a malfunction.

■ MARK MODE

During shooting of a given cut, press the TAKE button at beginning of a desired scene and then press the TAKE button again at the ending of the scene.

The time code data at the point where the TAKE button is pressed first becomes the start point of the scene and time code data at the point where the TAKE button is pressed the second time becomes the ending point, and both are stored in the unit's memory.



- The number of scenes that can be registered is 127, and up to 238 registered scene numbers can be stored in memory.
 When either of these capacities is reached, the indication showing the number of registered scenes on the viewfinder screen becomes "M: ---".
- Up to 253 CUE points can be stored in memory.
- For each registered CUE point, the scene number decreases by two.
- When recording in the S.Ś.F. mode, the reel number (cassette number) for each cassette is recorded in the memory of the GY-DV550 and on tape.
- When the videocassette is replaced, new S.S.F. data is generated. S.S.F. data for six videocassettes can be stored in the internal memory.

Before recording the seventh cassette in the S.S.F. mode, be sure that necessary data has been transferred from the memory to the non-linear editing controller or other component, or write data to the tape for each recording. See See page 69.

-Note:

- When recording is not performed in the S.S.F. mode, be sure to set the VCR SETUP MENU item No. 398 SSF MODE to OFF.

 Popular to record S.S.F. data continuously on the same target the persistent provided the target for every string during the continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target the second S.S.F. data continuously on the same target that the same target tha
- Be sure to record S.S.F. data continuously on the same tape. It is not possible to rewind the tape for overwriting during the
 recording.
- If the tape is rewound in the middle of a recording, or after similar operation is performed, be sure to use the Scene End Cue Up function in order to ensure that new data are recorded in continuation of the existing data.

 See "About the Scene End Cue Up Function" on page 69.
- * In the S.S.F. mode, the STBY/SAVE switch does not activate the VTR save mode. (The save mode is activated by a long pause.)

10. S.S.F. (Super Scene Finder) FUNCTION

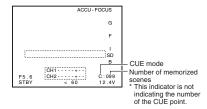
10-2 How to Use the S.S.F. Function



CUE Mode

VTR trigger button

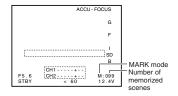
- Set the S.S.F. mode as CUE mode. Set the VCR Setup Menu item No. 398 S.S.F. MODE to "CUE".
- See page 75.
- The CUE mode is indicated in the lower part of the Status
 screen in the viewfinder.



- 2. Press the VTR trigger button to start the recording.
- **3.** When you reach the point that you want to memorize as the CUE point, press the TAKE button.
 - The time code data of the point where the TAKE button is pressed is stored in the unit's memory as CUE data.
 The LOG button's LED lights during memorization of the CUE point and the "s" mark is shown in the viewfinder.
 - Press the TAKE button each time you reach a point that you want to memorize as CUE data.
- Stop the recording.
 Press the VTR trigger button.

MARK Mode

- Set the S.S.F. mode as MARK mode. Set the VCR Setup Menu item No. 398 S.S.F. MODE to "MARK"
 - See page 75.
 - The MARK mode is indicated in the lower part of the Status 1 screen in the viewfinder.



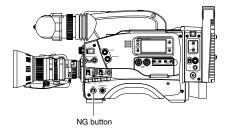
- 2. Press the VTR trigger button to start the recording.
- When you reach the scene that you want to memorize, press the TAKE button.
 - The time code data of the point where the TAKE button is pressed is stored in the unit's memory as the start point of the scene.
- **4.** When you reach the scene that you want to memorize as the ending point, press the TAKE button again.
- The time code data of the point where the TAKE button is pressed is stored in the unit's memory as the ending point of the scene.
- The LOG button's LED lights during memorization of the IN point and the "*" mark is shown in the viewfinder. The LOG button's LED remains off during memorization of the OUT point and the "*" mark is not shown in the viewfinder.
- For each scene that you want to memorize, repeat steps 3. and 4.
- **5.** Stop the recording. Press the VTR trigger button.

Note:

Once a tape with recorded S.S.F. data is rewound but not ejected before playback or recording is performed on it again, the
previous S.S.F. data cannot be automatically erased when S.S.F. data are recorded (when you overwrite the previous image).
 Therefore, the S.S.F. data of the overlapped sections will not correspond to the video image.
 Furthermore, please note that the time code data may differ from the actual data if recording is started in the CUE mode in
this situation

10. S.S.F. (Super Scene Finder) FUNCTION

10-3 Deleting S.S.F. Data



The S.S.F. data recorded in the unit's memory can be deleted in the record mode and the record-pause mode.

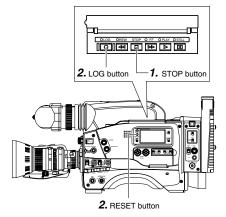
This function is only valid in the MARK mode.

- In the record mode, press the NG button after the IN point or OUT point has been stored.
- When pressed after the IN point has been stored, the S.S.F. data of the scene being recorded are deleted. When pressed after the OUT point has been stored, the S.S.F. data of the immediately preceding scene are deleted. When the NG button is used for deleting operation, the next scene number is updated to a new number.
- In the record-pause mode, press the NG button.
 The S.S.F. data of the immediately preceding scene are deleted.

-Note

The NG button is only valid for the immediately preceding scene. The erase of scene data by the NG button cannot be confirmed on the unit.

10-4 Resetting S.S.F. Data

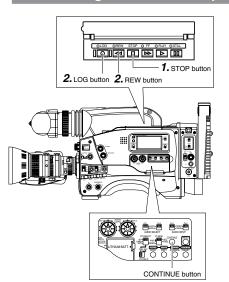


Operation

- 1. Press the STOP button to enter the stop mode.
- Press the RESET button while the LOG button is kept pressed.
 - All the S.S.F. data held in the memory are erased.
 However, the reel number is not cleared.

10. S.S.F. (Super Scene Finder) FUNCTION

10-5 Writing S.S.F. Data to Tape



S.S.F. data stored in the unitís memory can be written to the beginning of tape.

Precautions when writing S.S.F. data

 When S.S.F. data stored in the memory of the GY-DV550 is written to the beginning of the rewound tape, approximately 5 seconds of recorded video and/or sound will be erased at the beginning.

In the case of important recordings, leave 5 seconds or more of the tape unrecorded before starting recording.

 Writing of S.S.F. data should be done with the DC cable disconnected.

Operation

- 1. Press the STOP button to enter the stop mode.
- Press the REW button while the LOG button is kept pressed.
 The REW indicator blinks during tape transport in the writing position.
 - The LOG indicator lights while S.S.F. data are being written to the tane.
- When writing to the tape is completed, the LOG indicator goes out.

About the Scene End Cue Up Function

■ When the CONTINUE button is pressed while the LOG button is kept pressed in the stop mode, the tape winds to the S.S.F. data's last OUT point, after which the unit enters the record-pause mode. (Scene End Cue Up) The FF button's LED blinks during the Scene End Cue Up mode.

Note:

Once a tape with recorded S.S.F. data is ejected and then reinserted again, the previous data will be erased if new S.S.F. data are recorded on the tape.

10-6 Outputting S.S.F. Data

The S.S.F. data in the memory of the main unit or that recorded at the beginning of the tape can be output via the REMOTE connector using the RS-232C controller.

For how to make connections for this, refer to "Connecting a PC" on page 71.

Operation

In the stopped condition, the GY-DV550 answers with the S.S.F. data when it receives the RS-232C command D5h "S.S.F. DATA SENSE" from the PC.

(Indication example)

ID NO: 2c97

TILLL IN	TLLL NO. 1010					
SCENE	MARK IN	MARK OUT	CUE			
001M	00:00:00:16	00:00:04:19				
002M	00:00:06:03	00:00:08:08				
003C	00:03:15:17	00:03:57:00				
004C	00:03:58:18	00:05:37:24	00:04:00:21			
004C	00:03:58:18	00:05:37:24	00:04:07:22			
004C	00:03:58:18	00:05:37:24	00:04:18:23			
END						

Operation

- When recording in the S.S.F. mode is completed, and the cassette tape has not been taken out, the S.S.F. data stored in the memory of the GY-DV550 are output when the RS-232C command D5h is received.
- If the tape recorded in S.S.F. mode is ejected and then loaded again, the GY-DV550 rewinds the tape to the beginning and plays back for about 10 seconds when it receives the RS-232C command D5h.

During the playback, the model ID data and reel number recorded on the tape are read. If corresponding S.S.F. data are found in the memory, these data are output.

If corresponding S.S.F. data are not found in the memory, the tape is rewound to the beginning once more, and after about 20 seconds of slow playback the stop mode is entered. During slow playback, if S.S.F. data are written at the beginning of the tape, these data are read out, and after the

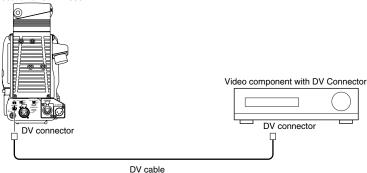
stop mode is entered the S.S.F. data are output.

* If S.S.F. data does not exist, the 05h (NOT TARGET) command is output.

11. USING EXTERNAL COMPONENTS

11-1 Connecting a Video Component with DV Connector

Rear section of GY-DV550



When connecting the GY-DV550 to other component with DV connector, be sure to observe the following procedure.

- When using the GY-DV550 as playback component
- 1. Turn ON both units.
- Confirm that the VCR Setup Menu item No.126 INPUT SELECT is set to "CAMERA" (cA).
- * If set to "IEEE1394", set it to "CAMERA" and then turn ON the power again.
- 3. Insert the videocassette.
- 4. Connect the DV cable.
 - * Always connect the DV cable last.

Memo:

 When the GY-DV550 is controlled through the DV connector, set the VCR Setup Menu item No.050 REMOTE SELECT to "IEEE1394".

However, the following functions may not work depending on the component that the GY-DV550 is connected to. $\begin{tabular}{ll} \end{tabular}$

REC

FF (FWD search is possible)

- REW (REV search is possible)

 When the DV cable is connected for communication
- with another component, to stabilize the IEEE1394 output signal, the STILL mode is activated for a few seconds and the LED of the STILL button on the top section of the GY-DV550 lights when the mode is switched to PLAY or x1 FWD search.
- The x1 FWD search only works during IEEE1394 control or RS-232C control.
- The operation method differs with the characteristics and specifications of the connected equipment. Even if connection is possible, operation or data communication may sometimes be impossible to perform.

- When using the GY-DV550 as recording component
- 1. Turn ON both units.
- Set VCR Setup menu No. 257 AUDIO REF. SIGNAL LEV. For proper E-E audio output, set the VCR Setup Menu No. 257 to the audio reference level of the tape on the player (-12 dB or -20 dB).

Memo

When VCR Setup menu No. 126 INPUT SELECT is set to IEEE1394, No. 257 AUDIO REF. SIGNAL LEV setting cannot be changed.

- 3. Set the VCR Setup Menu item No.126 INPUT SELECT to "IEEE1394" (IE).
- 4. Insert the videocassette.
- 5. Connect the DV cable.
 - * Always connect the DV cable last.

Mem

- When recording while controlling the GY-DV550 through the DV connector from another component with DV connector, set the VCR Setup Menu item No.050 REMOTE SELECT to "IEEE1394".
 In this case, it takes approximately 2 to 3 seconds
- before recording starts on the GY-DV550.

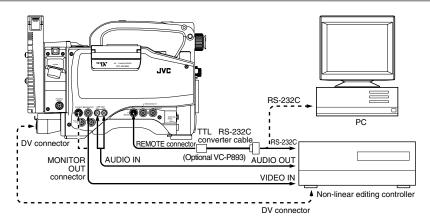
 The audio recording level to the tape constitutes an input signal reference level regardless of setting the VCR Setup Menu No. 257 AUDIO REF. SIGNAL LEV.
- When the GY-DV550 is used as camera, and a backup recording is made on another component via the DV connector, set the VCR Setup Menu item No.126 INPUT SELECT to "CAMERA".

Note:

If the above procedure is not performed correctly, the playback picture may be disturbed or the sound may fall out. If this happens, redo the connection by performing steps 1. to 4. described above.

11. USING EXTERNAL COMPONENTS

11-2 Connecting a PC



Perform the following settings when connecting the unit to a Non-linear editing controller, etc.

Connections

Connect the GY-DV550's VTR REMOTE connector to the RS-232C connector on the PC or the non-linear editing controller using the TTL ⇔ RS-232C converter cable.

Or connect the GY-DV550's DV connector and the DV connector of the non-linear editing controller using a DV cable.

For compatible non-linear editing controller, consult with your JVC dealer.

Settings

- To remote control the PC or non-linear editing controller by means of RS-232C, set the VCR Setup Menu item No. 050 REMOTE SELECT to "IEEE1394+RS232C". See page 74.
- To remote control the GY-DV550's VCR using the DV connector's IEEE1394 option, set the VCR Setup Menu item No. 050 REMOTE SELECT to "IEEE1394". © See page 74.

-Note:

- When a cable is connected to the REMOTE connector, the VTR Setup Menu is not displayed in the viewfinder. Make settings
 on the VTR Setup Menu while the cable is not connected.
- When a cable is connected to the REMOTE connector, the VCR operation mode will not be displayed correctly on the Status 1 screen in the viewfinder.
- The S.S.F. data stored in the memory of the unit or at the beginning of the tape can be output through the REMOTE terminal.

 □ See page 69.

12. SETUP MENU

12-1 VCR Setup Menu

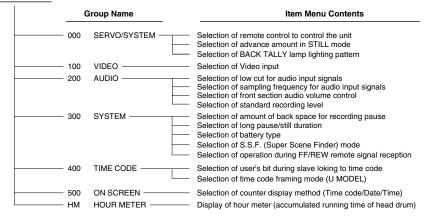
The setup menus for the VCR section can be set while observing the menu in the viewfinder and on the unit's counter display. The set contents are stored in the memory and retained even after the power is switched OFF.

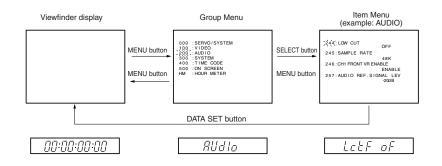
VCR SETUP MENU CONFIGURATION

The VCR Setup Menu is a two-layer construction.

The VCR Setup Menu consists of five group menus divided according to functions. When a Group menu is selected, the menu's Item menu opens. Each Item menu contains one or several items, and the various items can be set individually as required.

VCR Setup Menu





For servicing

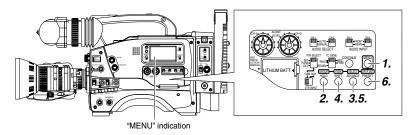
See the service manual page 1-23,

"1.14 SERVICE MENU (VCR)".

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12-1 VCR Setup Menu (Cont'd)

DISPLAYING AND SETTING VCR SETUP MENUS



Viewfinder

- 000 :SERVO/SYSTEM 100 :VIDEO 200 : AUDIO 300 :SYSTEM 400 :TIME CODE 500 :ON SCREEN HM :HOUR METER

GROUP menu screen

Counter display

AUdlo

244: LOW CUT 245:SAMPLE RATE 48K 246:CH1 FRONT VR ENABLE 257:AUDIO REF.SIGNAL LEV -20dB

Item menu screen

LctF of



DATA SET display

JAPIA SET

- 1. Engaging the VCR Setup Menu mode. Press the MENU button.
 - The "MENU" indication in the display section starts blinking and the VCR Setup Menu appears in the viewfinder and on the counter display.

Note:

When a cable is connected to the REMOTE connector, the VTR Setup Menu is not displayed in the viewfinder.

- 2. Selecting the GROUP.
 - Press the GROUP button.
 - · Each time the GROUP button is pressed the selected GROUP number is shown blinking on the viewfinder screen. The counter display shows the selected group.
- 3. Open the Item menu of the selected GROUP. Press the SELECT button.
- 4. Selecting the Item.
 - Press the ITEM button.
 - Each time the ITEM button is pressed the selected item number is shown blinking on the viewfinder screen. The counter display shows the selected item.
- **5.** Changing the setting value of the item.
 - Press the SELECT button and select the setting value.
 - When multiple items should be set, repeat the operations of steps 4. and 5.
 - To set menu items in other groups, press the MENU button. When the relevant group menu is displayed, perform the setting.
 - When the GROUP button is pressed, the items of the higher order group menu are displayed.
- 6. Saving the setting value. Press the DATA SET button.
 - "DATA SET" appears in the viewfinder and on the counter display and the setting value is saved in the GY-DV550's memory. The display returns to the normal screen mode when data has been saved.
 - If the MENU button is pressed without pressing the DATA SET button, the display returns to the normal screen mode without the setting value being changed.

12. SETUP MENU

12-1 VCR Setup Menu (Cont'd)

VCR SETUP MENU CONTENTS

Croun	Item	Setting Value	Contents	Factory
Group	Upper row: Viewfinder dis Lower row: Counter displ	splay	Contents	Setting
SERVO /SYSTEM	050: REMOTE SELECT	IEEE1394 RS232C		LOCAL
			The operation buttons on the GY-DV550 remain effective even when set to IEEE1394 or IEEE1394+RS232C.	
	052: STEP SLOW MODE	FIELD FRAME	Selects the advance amount in STILL mode. (Frame/Field advance is effective only with the external	FRAME
	StEP	Fd FM	remote control signal.) FIELD : Field-by-field advance. FRAME : Frame-by-frame advance.	
	082: BACK TALLY MODE	OFF ON BLINK	Selection of the lighting pattern of the BACK TALLY lamp on the rear section during recording. OFF : The lamp is always off. ON : The lamp lights during recording. It remains off until	BLINK
	rtMd	oF on bL	BLINK : The lamp lights during recording. It eliniates of utilities the VTR trigger button is pressed to start the recording. String and the string recording is the string recording. It blinks when the VTR trigger button is pressed to start the recording.	
VIDEO	126: INPUT SELECT	CAMERA IEEE1394	Selection of the input video signal. Settings cannot be changed during recording.	CAMERA
	vid Note: CA, iE The setting of this item can only be changed in		CAMERA: Camera image is input. IEEE1394: The image from the DV connector equipped	
	the stop mode or when a cassett		video component connected to the DV connector on the rear section is input.	
AUDIO	244: LOW CUT	OFF CH1 CH2 CH1 & CH2	To select whether or not the low frequencies of the audio signal from the audio input connectors are cut. Set to ON to reduce the wind noise of the microphone. OFF : The CH1 and CH2 low frequencies are not cut. CH1 : Only the low frequencies of the audio signal input to the CH1 channel are cut.	OFF
	LctF	oF 01 02 on	CH2 : Only the low frequencies of the audio signal input to the CH2 channel are cut. CH1& CH2: The low frequencies are cut for both CH1 and CH2.	
	245: SAMPLING RATE	32K 48K	To select the sampling rate for digital PCM audio recording of the tape (both CH1 and CH2). 32K : Digital recording occurs with 12-bit, 32 kHz sampling	48K
	snPL	32 48	48K : Digital recording occurs with 16-bit 48 kHz sampling. * The DV format offers recording tracks for up to 4	
	Note: The setting of this item can only the stop mode or when a cassette		channel when recording using 12-bit, 32 kHz sampling. The GY-DV550 records two of these tracks. The GY-DV550 does not allow after-recording.	
	246: CH1 FRONT VR ENABLE	DISABLE ENABLE	To select whether or not the front section audio input level control should be operative. The front section audio input level control only affects the audio signal recorded on CH1.	ENABLE
	FruL	oF on	DISABLE: Use of the front section audio input level control is disabled. ENABLE: Use of the front section audio input level control is enabled. * The CH-1 audio input level control on the side section works regardless of the setting.	
	257: AUDIO REF. SIGNAL LEV	-20dB -12dB 20 12	To set the reference recording level of the tape (both CH1 and CH2). Playback should also be made with the setting used during recording. -20dB: Records with -20dB as the reference recording level.	-20dB
	When No. 126 INPUT SELE IEEE1394, this item cannot be	ECT is set to	-12dB : Records with -12dB as the reference recording level. Use this setting when playing back the tape using a consumer-oriented DV player. * The recording level of the IEEE 1394 signal has nothing to do with it.	

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12-1 VCR Setup Menu (Cont'd)

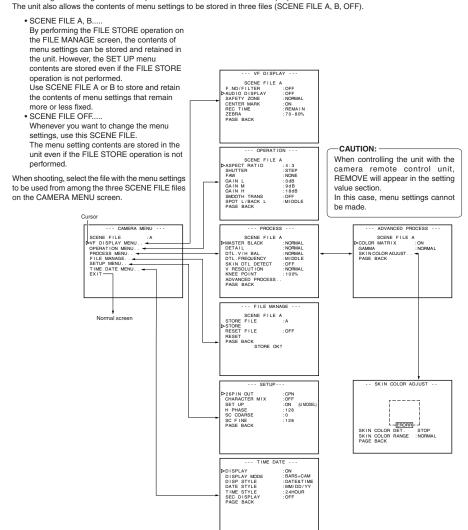
	Item	Setting		
Group		Value	Contents	Factory Setting
	Upper row: Viewfinder d Lower row: Counter disp			Jetting
SYSTEM	302: BACK SPACE b-SP	STANDARD QUICK St qU	Selection of amount of back space for recording pause. STANDARD: Normally use this setting. QUICK: Compared to STANDARD, the back space becomes approximately 0.4 seconds shorter. Use this setting when you want to start shooting quickly. However, in the REGEN mode, the time code may not continue.	STAND- ARD
	307: LONG PAUSE TIME	3MIN 30MIN	To select the time (minutes) before the tape protect mode (drum head rotation stopped) is engaged when the record-pause, still or stop condition continues. 3MIN : 3 minutes	30MIN
	LGPt	03 30	30MIN : 30 minutes * When used in a cold environment, the setting will be 3 minutes regardless of the setting.	
	396: BATTERY TYPE	12V 13.2V 14.4V	To be set in accordance with the used battery back type. 12V : Choose this setting when using 12V battery (12V DC Flat shape type).	12V
	bAtt	12 13 14	13.2V: Choose this setting when using 13.2V battery (Anton-Bauer Trimpack 13, Propack 13, Magnum 13, Compack 13). 14.4V: Choose this setting when using 14.4V battery (Anton-Bauer Trimpack 14, Propack 14, Magnum 14, Compack 14). Note: • If this setting is neglected, the unit's display of remaining of battery	
			This setting is register, the units display of remaining or dialetry power and generation of battery alarm will not work correctly. This setting is valid when battery pack is used. It is invalid when a DC power supply is used.	
	398: SSF MODE	OFF CUE MODE MARK MODE	Selection of the S.S.F. (Super Scene Finder) mode. S.S.F. function: While recording, the time code data of a desired recorded scene is stored in the unit's memory when the TAVE butter on the front parties in record	OFF
	SSF	oF cU nr	when the TAKE button on the front section is pressed. Settings cannot be changed during recording or SAVE mode. OFF: S.S.F. function is not available. CUE MODE: Selects the CUE mode. When the TAKE button is pressed, the time code data of the scene recorded at that point is stored in the memory. MARK MODE: Selects the MARK mode. When the TAKE button is pressed the first time, the time code of this point is stored as start point of the scene. When the TAKE button is pressed the second time, the time code of this point is stored as ending point of the scene. For details on the S.S.F. function, see page 66. When the VCR Setup Menu item No. 398 S.S.F. MODE is set to CUE or MARK, the time code generator's running method is internally set to the REGEN mode.	
	399: REMOTE FF/REW MODE rEFF	FF/REW SEARCH FF SH	Specifies the operation when FF/REW signal is received from the remote connector during playback. FF/REW : FF/REW operation performed. SEARCH : Search operation performed.	FF/ REW
TIME CODE	403: U-BIT SLAVE	TC&UB TC on oF	To set whether user's bits also should be slave-locked when slave-locking with external time code generator. TC&UB: User's bits also slave-locked TC : User's bits are not slave-locked	TC
	416: NON DROP/ DROP (U MODEL)	DROP NON DROP dF nF	Selection of the time code generator's framing mode as either drop or non-drop mode. DROP: The internal time code generator runs in drop mode. Choose this setting when emphasizing the recorded time. NON DROP: The internal time code generator runs in non drop mode. Choose this setting when emphasizing the frame number.	DROP
ON SCREEN	516: DISPLAY SELECT	TC CLOCK tc cL	Selection of the appearance of the counter display when the COUNTER switch is set to "TC" or "UB". TC : The time code is displayed. CLOCK: The date/time is displayed.	TC

12. SETUP MENU

12-2 Camera Menu Screen Flow

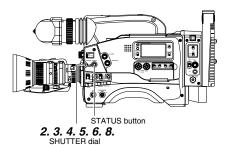
Camera Menu Screen Flow

As illustrated below, the Camera Menu is a menu screen comprising several layers. The first layer of the CAMERA MENU screen is for choosing and setting the menus required in accordance with functions or purposes.

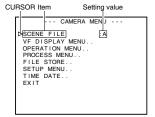


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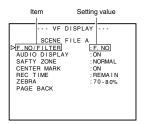
12-3 How to Select from the Camera Menu







CAMERA MENU screen



VF DISPLAY MENU screen

- Press the STATUS button for 1 second to display the CAMERA MENU screen in the viewfinder.
- Choose the file with the camera menu settings to be used. (SCENE FILE A, B or OFF)
 - Turn the SHUTTER dial up or down to align the cursor with SCENE FILE, and then press the SHUTTER dial in the direction of the arrow.
 - The area with the setting value starts blinking, and the value can now be changed.
- Turn the SHUTTER dial up or down to select the setting value. (A, B or OFF)
- ③ Press the SHUTTER dial in the direction of the arrow.
- The setting value stops blinking but remains lit.
- Turn the SHUTTER dial up or down to align the cursor with the menu item to be set, and then press the SHUTTER dial in the direction of the arrow.
 - · The selected menu screen appears in the viewfinder.
- 4. Choose the menu item from the menu screen. Turn the SHUTTER dial up or down to align the cursor with the menu item to be set, and then press the SHUTTER dial in the direction of the arrow.
 - The area with the setting value starts blinking, and the value can now be changed.
- **5.** Change the setting value.
 - Turn the SHUTTER dial up or down to change the setting value, and then press the SHUTTER dial in the direction of the arrow.
 - · The setting value stops blinking but remains lit.
 - To change multiple items, repeat steps 4. and 5. above.
- 6. Return to the CAMERA MENU screen.
 - Turn the SHUTTER dial up or down to align the cursor with the PAGE BACK item, and then press the SHUTTER dial in the direction of the arrow.
 - To change the settings of other menu screens, perform the operations described in steps 3. to 6. above.
- 7. If SCENE FILE A or B is selected, choose the FILE MANAGE item from the CAMERA MENU screen and perform the operations for storing a file.
 - See "FILE MANAGE Screen" on page 82.
 - * It is not necessary to perform the file storage operations for changes made to the SETUP MENU.
- 8. Complete the CAMERA MENU setting.

Turn the SHUTTER dial up or down to align the cursor with the EXIT item on the CAMERA MENU screen, and then press the SHUTTER dial in the direction of the arrow.

· The normal screen returns in the viewfinder

12. SETUP MENU

12-4 VF Display Screen

Item	Function, Operation	Variation Range	Initial Setting
F.NO/FILTER	Sets whether to display the F-number of the lens iris or filter position of the unit on status screen 1. F. NO	F.NO FILTER OFF	OFF
AUDIO DISPLAY	Selects whether or not the audio indicator is displayed on the Status 1 screen. ON	ON OFF	OFF
SAFETY ZONE	Selects the safety zone setting. ESF See "Safety Zone" on page 31.	OFF NORMAL 16:9	OFF
CENTER MARK	Selects whether or not a center mark is shown during display of safety zone. ON	ON OFF	ON
RECTIME	Sets whether the remaining tape recording time or TIME CODE is displayed on the Status 1 screen. TCTIME CODE is displayed. * The time code is displayed even if the VCR Setup Menu item No. 516 DISPLAY SELECT is set to "CLOCK". REMAIN Remaining time is displayed.	TC REMAIN	REMAIN
ZEBRA	Switches the luminance level of the subject sections where the zebra pattern is displayed. Zebra patterns also displayed when color bar is displayed. 70-80%	70-80% 85-95% OVER95% OVER100%	70-80%
PAGE BACK	The CAMERA MENU returns when the SHUTTER dial is pressed with the cursor at this position.	-	-

12-5 OPERATION Screen

Item	Function, Operation	Variation Range	Initial Setting
ASPECT RATIO	Sets the image size of the video signal. LETTER LETTER BOX (16:9 aspect ratio) image output. 4:3	LETTER 4:3	4:3
SHUTTER	The SHUTTER button on the right side section is used to select STEP for fixed shutter speed or V.SCAN variable scanning rate for shooting computer monitor screens. STEP Enables setting of different fixed shutter speeds. [1/100, 1/250, 1/500, 1/1000, 1/2000] (U MODEL) [1/120, 1/250, 1/500, 1/1000, 1/2000] (E MODEL) VARIABLE Selected when shooting computer monitor screens, etc. [Variable range: 60.1 to 2084.6 Hz] (U MODEL) [Variable range: 50.1 to 2067.8 Hz] (E MODEL)	STEP VARIABLE	STEP
FAW	Selects the W.BAL switch (on page 13) position to which the FAW (Full-Time Auto White Balance Adjustment) function is to be assigned. NONE	NONE A B PRESET	NONE
GAIN L GAIN M GAIN H	Selects the gain value in each position of the GAIN switch (on page 13).	-3dB 0dB 3dB 6dB 9dB 12dB 18dB ALC	L: 0dB M: 9dB H: 18dB
SMOOTH TRANS	Smoothens the transition when the GAIN switch (② on page 13), or WHT.BAL switch (② on page 13) is switched over and achieves gradual change in place of sudden change. However, the smooth transition function does not function when switching the GAIN switch set in ALC, FAS button and the LOLUX button. ON	ON OFF	OFF
SPOT L/ BACK L	Sets the level of auto iris when setting the AUTO IRIS switch to BACK L or SPOT L. LOW : Lowers the iris level. MIDDLE : Opens/Closes the iris by 1 step from the standard state. HIGH : Raises the iris level.	LOW MIDDLE HIGH	MIDDLE
PAGE BACK	The CAMERA MENU returns when the SHUTTER dial is pressed with the cursor at this position.	-	-

12. SETUP MENU

12-6 PROCESS Screen

Item	Function, Operation	Variation Range	Initial Setting
MASTER BLACK	Adjusts the pedestal level (master black), which is the reference of black. • To increase the pedestal level Increase the number. (UP) • To decrease the pedestal level Decrease the number. (DOWN)	MAX (100) 99 201 gradations to NORMAL (0) to -99 MIN (-100)	NORMAL
DETAIL	Adjusts the detail enhancement level. To sharpen details	MAX (7) 6 15 gradations to NORMAL (0) to -6 MIN (-7)	NORMAL
DTL.V/H BAL	Sets the direction, horizontal (H) or vertical (V), in which stronger detail enhancement is applied. To strengthen the H enhancement Increase the number (UP). To strengthen the V enhancement Decrease the number (DOWN). Note: While the LOLUX function is operating, the setting value is fixed at NORMAL and "FIX" is displayed.	H-MAX (4) 3 9 gradations to NORMAL (0) to -3 H-MIN (-4)	NORMAL
DTL. FREQUENCY	Varies the detail enhancement level by changing the detail enhancement frequency. Set in accordance with the subject HIGH	HIGH MIDDLE LOW	LOW
SKIN DTL DETECT	Sets the Skin Detail function to ON or OFF. ON	ON OFF	OFF
V. RESOLUTION	Increases the vertical resolution. • NORMAL Vertical resolution 380 lines. • V.MAX Vertical resolution 450 lines (The sensitivity is degraded and the bright sections may be colored depending on the subject.)	NORMAL V.MAX	NORMAL
KNEE POINT	Sets the knee point (brightness level) when the AUTO KNEE function is set to OFF.	80% 85% 90% 95% 100%	100%
ADVANCED PROCESS	Displays the ADVANCED PROCESS Screen. See "ADVANCED PROCESS Screen" on page 81.		
PAGE BACK	The CAMERA MENU returns when the SHUTTER dial is pressed with the cursor at this position.	-	-

12-7 ADVANCED PROCESS Screen

Item	Function, Operation	Variation Range	Initial Setting
COLOR MATRIX	Sets the color matrix OFF Deactivates the color matrix function ON The color reproducibility is enhanced, but noise increases. CAUTION: During the LOLUX operation, COLOR MATRIX is fixed to the OFF setting and "FIX" is displayed.	ON OFF	ON
GAMMA	Correction of the gamma curve to decide the reproducibility of black color. To enhance the black color reproducibility. However, halftones will be lost for white section	MAX (8) 7 18 gradations to NORMAL (0) to -7 MIN (-8) OFF	NORMAL
SKIN COLOR ADJUST	Pressing the SHUTTER dial once when the cursor is at this position switches the screen to display the SKIN COLOR ADJUST screen.		
PAGE BACK	The PROCESS MENU returns when the SHUTTER dial is pressed with the cursor at this position.	-	_

12-8 SKIN COLOR ADJUST Screen

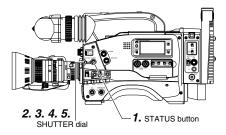
Item	Function, Operation	Variation Range	Initial Setting
SKIN COLOR DETECT	Sets whether it is possible to change the color used by the Skin Tone Detail function. EXECUTE Choose this setting to allow detection of the color used by the Skin Tone Detail function. STOP Choose this setting to stop detection of the color used by the Skin Tone Detail function. STOP Using the Skin Tone Detail Function on page 91.	STOP EXECUTE	STOP
SKIN COLOR RANGE	The setting of this item can only be changed when the SKIN COLOR DETECT item is set to EXECUTE. This setting is for adjusting the skin color range where Skin Tone Detail functions. (When this item is selected, the area where the Skin Tone Detail function is applicable is indicated by zebra patterns on the screen.) While viewing the zebra pattern range, perform the adjustment. Increasing the range Increase the number Increasing the range	WIDE +19 (33 gradations) to NORMAL to -11 NARROW	NORMAL
PAGE BACK	The ADVANCED PROCESS MENU returns when the SHUTTER dial is pressed with the cursor at this position.	-	_

12. SETUP MENU

12-9 FILE MANAGE Screen

The unit has three files that can be used for storing camera menus. The FILE MANAGE screen is for performing the operations for saving the set CAMERA MENU.

- When menu settings are made using SCENE FILE A or B, the contents of the settings will be invalid if the storage operations
 are not performed on this screen. However, the SETUP MENU settings will be valid even if the storage operations are not
 performed.
- When menu settings are made using SCENE FILE OFF, the contents are stored in the unit at the time settings are changed on each menu screen even if the storage operations are not performed.







CAMERA MENU screen



FILE MANAGE screen

Storage Operation

- Press the STATUS button for about 1 second to display the CAMERA MENU screen.
- Turn the SHUTTER dial to align the cursor with the FILE MANAGE item, and then press the SHUTTER dial in the direction of the arrow.
 - . The FILE MANAGE screen appears in the viewfinder.
- 3. Choose the file to save in (A or B).
 - ① Turn the SHUTTER dial to align the cursor with the STORE FILE item, and then press the SHUTTER dial in the direction of the arrow.
 - ② Turn the SHUTTER dial to select the file to save in (A or B), and then press the SHUTTER dial in the direction of the arrow.
- 4. Save the menu settings.

Turn the SHUTTER dial to align the cursor with the STORE item, and then press the SHUTTER dial in the direction of the arrow.

 The "STORE OK?" message appears in the lower section of the centre of the screen.

When the SHUTTER dial is pressed in the direction of the arrow once more, the menu settings are stored in the selected STORE FILE.

5. Close the FILE MANAGE screen

Turn the SHUTTER dial to align the cursor with PAGE BACK, and then press the SHUTTER dial in the direction of the arrow

The CAMERA MENU screen returns in the viewfinder.

Memo:

- When changing the menu settings in SCENE FILE A and saving in STORE FILE B: SCENE FILE B: The contents become the menu
 - contents of the changed settings. SCENE FILE A: The contents become the menu $\,$
- contents valid before the settings were changed.

 When changing the menu settings in SCENE FILE OFF and saving in STORE FILE B:
- SCENE FILE B: The contents become the menu contents of the changed settings.
- SCENE FILE OFF: The contents become the menu contents of the changed settings.
- Resetting the menu settings to the initial settings is also done using the FILE MANAGE screen.
 - See "Resetting the Camera Menu Settings" on page 85.

12-10 SETUP Screen

Item	Function, Operation	Variation Range	Initial Setting
26 PIN OUT	Other than composite signals, another type of video signals can be outputted from the VTR/RM multi-pin connector. The other output video signal is selected here. Y/C : Outputs Y/C separate signals. RGB : Outputs RGB signals. CPN : Outputs component video signals.	Y/C RGB CPN	CPN
CHARACTER MIX	For selecting whether to mix characters in the MONITOR OUT video. OFF: No characters are displayed ON: Character-mixed display	OFF ON	OFF
SET UP (U MODEL)	For selecting whether to include setup signals in the camera images, external input video or VCR playback video signals. OFF: Setup signals are not included. ON: Setup signals are included. (Setup level: 7.5%)	OFF ON	ON
H PHASE	For adjusting the horizontal phase of the unit in relation to the signal (external sync signal) input through the GENLOCK/AUX IN connector on the left side of the unit. Delaying the horizontal phase of the unit in relation to the external sync signal. Increase the number Speeding up the horizontal phase of the unit in relation to the external sync signal sync signal. Decrease the number * Adjustment is not possible if the external sync signal is not input. Possible values are indicated by	0 to 255	128
SC COARSE	For roughly adjusting the unit's sub-carrier (SC) phase against signals (external synchronous signals) inputted to the GENLOCK/AUX IN terminal on the left side of the unit. (0°, 90°, 180°, 270°) * Adjustment is not possible if the external sync signal is not input. Possible values are indicated by	0 90 180 270	0
SC FINE	For fine adjusting the sub-carrier (SC) of the unit in relation to the signal (external sync signal) input through the GENLOCK/AUX IN connector on the left side of the unit. Rotating the sub-carrier clockwise in relation to the external sync signal	0 to 255	128
PAGE BACK	The CAMERA MENU returns when the SHUTTER dial is pressed with the cursor at this position.	-	-

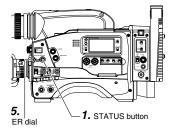
12. SETUP MENU

12-11 TIME DATE screen

Item	Function, Operation	Variation Range	Initial Setting
DISPLAY	For setting whether to display the time and date on the viewfinder. OFF: Time and date are not displayed. ON: Time and date are displayed. When setting to ON, the time and date are recorded on the upper of left of the video.	OFF ON	OFF
DISPLAY MODE	For selecting the mode for displaying the time and date on the viewfinder. BARS+CAM: Time and date are displayed when outputting color bar signals or camera images. BAR: Time and date are displayed when outputting color bar signals. CAM: Time and date are displayed when outputting camera signals. "" is displayed when DISPLAY is set to OFF, and the setting will be unavailable.	BARS+CAM BAR CAM	BARS+CAM
DISP STYLE	For selecting the format of the time and date display. DATE&TIME: The time and date are displayed. DATE: The date is displayed. TIME: The time is displayed. "" is displayed when DISPLAY is set to OFF, and the setting will be unavailable.	DATE&TIME DATE TIME	DATE&TIME
DATE STYLE	For selecting the format of the date display. YY/MM/DD: Displays in the format of year/month/date. MM/DD/YY: Displays in the format of month/date/year. DD/MM/YY: Displays in the format of date/month/year. "" is displayed when DISPLAY is set to OFF, and the setting will be unavailable.	YY/MM/DD MM/DD/YY DD/MM/YY	MM/DD/YY (U) DD/MM/YY (E)
TIME STYLE	For selecting the format of the time display. 24 HOUR: Displays the time using the 24 hour system. 12 HOUR: Displays the time using the 12 hour system. "" is displayed when DISPLAY is set to OFF, and the setting will be unavailable.	24 HOUR 12 HOUR	24 HOUR
SEC DISPLAY	For selecting whether to display the seconds in the time display. OFF: Seconds are not displayed. ON: Seconds are displayed. "" is displayed when DISPLAY is set to OFF, and the setting will be unavailable.	OFF ON	OFF
PAGE BACK	When the cursor is at this position, pressing the SHUTTER dial once will return the unit to the CAMERA MENU screen.	_	-

12-12 Resetting of Camera Menu Setting Values

Using the FILE MANAGE screen, the CAMERA MENU settings can be reset to the initial setting values. On the FILE MANAGE screen, select the file of the CAMERA MENU to be reset, and then perform the resetting operation.







CAMERA MENU screen



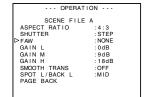
FILE MANAGE screen

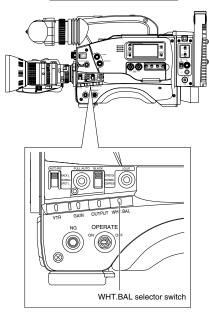
Reset Operation

- Press the STATUS button for about 1 second to display the CAMERA MENU screen.
- Turn the SHUTTER dial to align the cursor with the FILE MANAGE item, and then press the SHUTTER dial in the direction of the arrow.
 - · The FILE MANAGE screen appears in the viewfinder.
- 3. Choose the file of the CAMERA MENU to be reset (A, B,
 - If ALL is selected, all the CAMERA MENU files will be reset.
 - ① Turn the SHUTTER dial to align the cursor with the RESET FILE item, and then press the SHUTTER dial in the direction of the arrow.
 - ② Turn the SHUTTER dial to select the file to be reset, and then press the SHUTTER dial in the direction of the arrow.
- 4. Reset the camera menu settings.
 - Turn the SHUTTER dial to align the cursor with the RESET item, and then press the SHUTTER dial in the direction of the arrow.
 - The "RESET OK?" message message appears in the lower section of the centre of the screen.
 - ② When the SHUTTER dial is pressed in the direction of the arrow once more, the CAMERA MENU settings of the selected file are reset to the initial settings.
- 5. Close the FILE MANAGE screen Turn the SHUTTER dial to align the cursor with PAGE BACK, and then press the SHUTTER dial in the direction of the
 - The CAMERA MENU screen returns in the viewfinder.

13. FEATURES OF THE CAMERA SECTION

13-1 Full-Time Auto White Balance (FAW)





The FAW function adjusts the white balance value automatically as the lighting condition changes.

This mode is convenient when you have no time to adjust the white balance or when the camera is moved frequently in and out of places under different lighting conditions.

Setting procedure

The FAW function can be activated with item "FAW" on the OPERATION Menu.

This item allows allocation of the FAW function to the A, B or PRST position of the WHT.BAL selector switch.

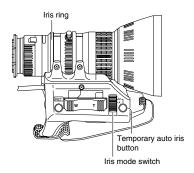
See "OPERATION Screen" on page 79.

-CAUTION: -

The FAW (Full-time Auto White balance) function cannot provide optimum white balance with a subject outside the FAW adjustment range, for example when it contains only a single color or not enough white color.

13-2 IRIS (Brightness) Adjustment

ADJUSTMENT OF LENS IRIS



The lens iris can be adjusted using any of the following three methods.

Automatic adjustment

Set the iris mode switch to "A" (Auto).

The iris is adjusted automatically according to the brightness of the object.

Manual adjustment

Set the iris mode switch to "M" (Manual).

The iris can be adjusted manually by rotating the iris ring.

Temporary auto iris adjustment

During manual iris adjustment, the auto iris adjustment mode is activated only while this button is held depressed.

■ Changing the auto iris adjustment setup

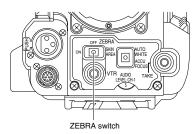
Under special lighting conditions such as backlight, it is often appropriate to change the value set by the auto iris adjustment.

This can be done by the following methods.

• Setting the AUTO IRIS LEVEL switch of the camera

See "SWITCH FUNCTIONS" on page 90.

ZEBRA PATTERN DISPLAY DURING MANUAL ADJUSTMENT



By setting the ZEBRA switch to ON, oblique stripes (zebra pattern) can be displayed in the sections with a luminance level of 70% to 80% or sections with levels over 100% in the viewfinder.

The zebra pattern can be used as a reference for manual iris adjustment.

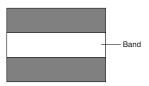
When adjusting the iris manually, adjust it so that the zebra patterns are displayed in the section that you want to stress in the subject.

- When CHARACTER of the Camera SETUP Menu screen is set to ON, the zebra pattern will also appear in the MONITOR OUT connector video.
- · The zebra pattern will also appear during color bar output when the ZEBRA switch is set to ON.
- The initial setting is 70 to 80%. However, using the "ZEBRA" setting on the VF DISPLAY MENU, zebra patterns can be displayed in the sections with a luminance level of 85% to 95%, over 95% and over 100%.

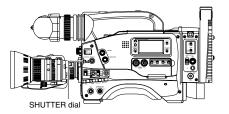
See "VF DISPLAY MENU Screen" on page 78.

13. FEATURES OF THE CAMERA SECTION

13-3 Shooting the Screen Image on a Computer Monitor



Video monitor



OPERATI	ON
SCENE FILE ASPECT RATIO DSHUTTER FAW GAIN L GAIN M GAIN H SMOOTH TRANS SPOT L/BACK L PAGE BACK	

OPERATION MENU screen

■ Outline

The following operation allows the alignment of the shutter speed of the camera with the variable scanning rate of a computer monitor or display.

When a computer monitor screen or display is shot with the camera, a bright horizontal line indicating excessive exposure is displayed in cases when the scanning rate of the monitor is faster than the shutter speed of the camera. A dark horizontal line indicating insufficient exposure is displayed in cases when the monitor's scanning rate is slower than the camera's shutter speed.

The scanning frequency of a monitor varies due to various reasons during the computer operation. Adjust the scanning rate to obtain a stable image while observing the image in the viewfinder.

■ Variable Scan [V.SCAN]

· Basic operation

CAUTION:

Set the SHUTTER item on the OPERATION MENU screen to VARIABLE. Then move the SHUTTER knob upwards or downwards to change the shutter speed.

(The speed is displayed on the viewfinder screen.)

· Compatible frequencies

The variable scan function is compatible with scanning frequencies in the following range. 60.1 Hz to 2084.6 Hz (U MODEL)

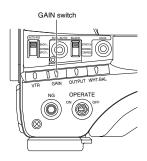
50.1 Hz to 2067.8 Hz (E MODEL)

This function is not compatible with slow-speed computer monitors with a vertical scanning speed of 50 Hz.

13-4 Gain (Sensitivity) Adjustment

The gain should be switched when the brightness is insufficient due to poor lighting conditions.

GAIN SWITCHING



-CAUTION:

When gain is set to "ALC", gain is boosted automatically as the illumination becomes darker. However, noise will increase a little because the screen becomes brighter as the ALC (Auto Level Control) function boosts the gain more than in the case of manual adjustment.

This switch allows the gain to be boosted when the illumination of the subject is insufficient.

Switch Position	Factory-Set Gain
L	0dB
M	9dB
Н	18dB

When the GAIN switch is switched, the newly set gain is displayed for about 2 seconds on the Status 0 or Status 1 screen in the viewfinder.

Set it to L (0 dB) in normal use.

- The gain set for each of the switch positions can be changed with "GAIN" on the OPERATION MENU screen.
- It is also possible to use the ALC function that varies the gain automatically.
- See page 79 for details.
- To make the gain transition smoother, set "SMOOTH TRANS" on the OPERATION MENU to "ON". ™ See page 79.

However, note that the SMOOTH TRANS function is not available if gain is set to ALC.

GAIN BOOST UNDER LOLUX CONDITION



The LOLUX button is used when the illumination is still insufficient after compensating with the GAIN switch. Press the button to enter the LOLUX mode in which the gain is

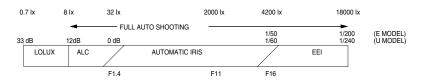
boosted by about 33 dB. "LOLUX ON" is displayed for about 2 seconds on the Status 0

or Status 1 mode screen in the viewfinder. Pressing the button again cancels the LOLUX mode.

"LOLUX OFF" is displayed for a few seconds.

■ When the LOLUX function is in use, the image definition on the screen will degrade to increase residual images, but this is not a malfunction.

[Relationship between gain, iris and shutter]

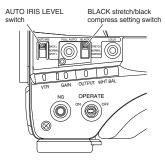


13. FEATURES OF THE CAMERA SECTION

13-5 Switch Setup According to Illumination and Subject

Various switch settings are performed to accommodate the conditions of the illumination and the subject when shooting.

SWITCH FUNCTIONS



1) AUTO IRIS LEVEL switch

This switch allows the reference value for the auto iris adjustment to be changed according to the lighting condition.

BACK. L: When the subject is in backlit conditions. Opens the iris wider than the standard setting.

NORMAL: Normal lighting condition.

SPOT. L: When the subject is under a spotlight.

Closes the iris narrower than the standard setting.

■ The level of auto iris can be set in SPOT L/BACK L of the Camera OPERATION menu screen when setting the AUTO IRIS switch to BACK L or SPOT L. See page 79.

2)BLACK stretch/black compress switch

This switch makes the image easier to see by varying the

black gain.

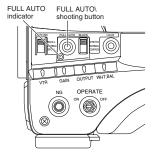
BLACK STRETCH: Boosts the gain of black areas to improve the reproducibility of black.

NORMAL : Normal black gain.

BLACK COMPRESS: Attenuates the gain of black areas to

make the image sharper.

FULL AUTO SHOOTING (FAS) FUNCTION



· The FAS function will not operate during external video

When the power is turned on while the camera is in the

. In the FAS mode, the audio recording level is not set

To select the AUTO mode, set the AUTO/MANUAL switch

automatic adjustment of FAS is completed.

automatically to the AUTO mode.

of the VCR section to AUTO.

FAS mode, it takes about 10 seconds before the

Operation

White balance) functions.

1. Simply press the FULL AUTO button to enter the FAS mode, in which the FULL AUTO indicator lights and "FAS" is displayed to the right in the viewfinder.

The FAS function provides a wide range of compatibility with shooting conditions that varies as you move between indoors and outdoors or between bright and dark locations. It eliminates

the need to change the switch and filter positions every time

The FAS function provides an integrated control of the ALC

(Automatic Level Control), Auto iris and FAW (Full-time Auto

2. Pressing the FULL AUTO button again cancels the FAS mode and turns the FULL AUTO indicator off.

■ Automatic Setting Contents

- · If you have been displaying the color bars, the screen is switched automatically to the camera image.
- The auto iris adjustment mode is entered even if the iris mode switch of the lens is set to manual
- The GAIN switch and WHT.BAL switch settings are defeated in the FAS mode.
- The LOLUX button setting is active even in the FAS mode. However, the ALC and EEI are defeated in the LOLUX mode, in which only the auto iris adjustment and FAW are used.
- · All of the previous setting contents are recalled when the FAS mode is cancelled.
- . The SMOOTH TRANS function is defeated during switch to the FAS function.

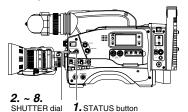
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CAUTION:

signal input.

13-6 How to Use Skin Tone Detail

The contour emphasis in the skin color areas of the video signal can be controlled and made to appear gentle and smooth.









PROCESS screen



SKIN COLOR ADJUST screen

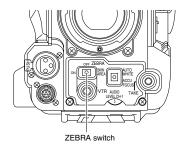


SKIN COLOR ADJUST screen

- Setting the Color and Range of the Skin Tone Detail Function
- Press the STATUS button for about 1 second to display the CAMERA MENU screen.
- Turn the SHUTTER dial downward to align the cursor (>)
 with the PROCESS item. Then press the SHUTTER dial in
 the direction of the arrow to display the PROCESS screen.
- 3. Turn the SHUTTER dial downward to align the cursor (>) with the ADVANCED PROCESS item. Then press the SHUTTER dial in the direction of the arrow to display the ADVANCED PROCESS screen
- 4. Turn the SHUTTER dial downward to align the cursor (>) with the SKIN COLOR ADJUST item. Then press the SHUTTER dial in the direction of the arrow to display the SKIN COLOR ADJUST screen.
 - The frame shown on the screen indicates the detection area of the skin tone detail function.
- 5. When the cursor (>) is aligned with the SKIN COLOR DET. item, the SHUTTER dial is pressed in the direction of the arrow and EXECUTE selected, the skin color detection mode is activated.
- 6. Shoot so that the area with the color that you want to detect is brought within the detection area frame. To decide on the color for the detection, press the SHUTTER dial to set SKIN COLOR DET. to STOP.
 - The areas recognized by the skin tone detail function appear with superimposed zebra patterns.
 - If the color is not recognized as a color that the skin tone detail function works with, "ERROR" is displayed on the screen
- 7. If you want to change the color range recognized by the skin tone detail function, perform the following operations. Set the SKIN COLOR DET. item to EXECUTE.
 - Turn the SHUTTER dial to align the cursor (>) with SKIN COLOR RANGE, and then press the SHUTTER dial in the direction of the arrow.
 - → The area with the setting value starts blinking, and the value can now be changed.
 - ② Turn the SHUTTER dial up or down to widen or narrow the
 - Adjust the range while observing the zebra patterns.
 - ③ To decide the color range, press the SHUTTER dial in the direction of the arrow.
 - → The setting value stops blinking but remains lit.
- 8. To stop the SKIN COLOR ADJUST operation, align the cursor (>) with BACK PAGE and press the SHUTTER dial in the direction of the arrow.

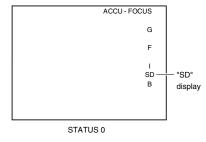
13. FEATURES OF THE CAMERA SECTION

13-6 How to Use Skin Tone Detail (Cont'd)



■ Confirming the color tone area adjusted with the Skin Tone Detail function

When the ZEBRA switch on the front section is pressed to the "SKIN AREA" side, the color tone areas adjusted with Skin Tone Detail are displayed in the viewfinder.

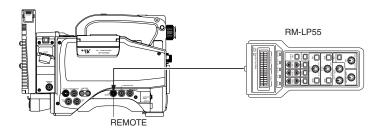


Using the Skin Tone Detail Function

To use the skin tone detail function set on the SKIN COLOR ADJUST screen, set the SKIN DTL DETECT item on the PROCESS menu to "ON".

While the Skin Tone Detail function operates, the "SD" indicator is displayed on the Status 0 and Status 1 screen in the viewfinder.

13-7 Connecting the Local Remote Control Unit (RM-LP55/RM-LP57)



It is possible to set the switch functions of the camera section using the local remote control unit (RM-LP55/RM-LP57)

Connection

Connect the local remote control unit cable to the REMOTE connector of this unit.

Settings

- Set VTR Setup menu No. 050 REMOTE SELECT of this unit to LOCAL.
- When also using the DV terminal, set VTR Setup menu No. 050 REMOTE SELECT to IEEE1394.

-CAUTION:

When setting VTR Setup menu No. 050 REMOTE SELECT to IEEE1394 + RS232C, the local remote control unit will be inoperable.

Operation

When the OPERATE switch of the local remote control unit is set to ON, the local remote control unit will be operable.

■ Unavailable functions

The following functions are unavailable from the local remote control unit.

• RM-LP55 : GAIN ALC setting

SHUTTER EEI setting

ZOOM FOCUS

SC COARSE SC FINE

H PHASE

GAMMA TITLE

TITLE SET

• RM-LP57 : SHUTTER EEI setting

GAIN ALC setting SC COARSE

SC FINE

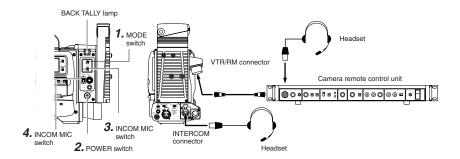
H PHASE

—Memo:

- If the switch functions for this unit and the local remote control unit are the same, the switch function of the local remote control unit will have priority.
- The IRIS AUTO/MANUAL setting will be the local remote control unit switch setting regardless of the lens section switch setting.
- H. PHASE, SC COARSE and SC FINE cannot be adjusted using the local remote control unit.
- When RM-LP55 is connected, the shutter speed displayed on RM-LP55 may slightly differ from the speed displayed on this unit.

13. FEATURES OF THE CAMERA SECTION

13-8 Connecting the camera remote control unit



The unit can be remotely controlled using the camera remote control unit. Use the following available products.

- Camera remote control unit
- RM-P200 ------ Maximum cable length is 100m.

 (Not available for 4-inch viewfinders.)

CAUTION:

To use the camera remote control unit RM-P200, internal adjustments of the RM-P200 are required. It is, therefore, mandatory that you contact the nearest JVC-authorized service agent for inquiry about the adjustments.

- RM-P300 Cable length is 200m only.
- Intercom headset
- KA-310

Connection

- Connect the camera remote control unit to the VTR/RM multi-pin connector.
- When using the intercom headset, connect the headset to the INTERCOM connector.
- To check the prompter output of the camera remote control unit, connect a monitor to the PROMPTER OUTPUT connector.

Settings

- 1. Set the MODE switch to RM.
- Select the power source of this unit using the POWER switch. When supplying power from the power supply of the camera remote control unit through the VTR/RM multi-pin connector, set the POWER switch to RM.
- Set the INCOM MIC setting switch according to the intercom headset microphone type (carbon-type or dynamic-type microphone).

- 4. Use the INCOM MIC switch to set whether to use the microphone of the intercom headset.
 - The microphone of the headset will become available for use when setting to ON and the volume can be adjusted by turning the volume knob.
- 5. Composite video signals of the camera are constantly outputted from the VTR/RM multi-pin connector. Other than this signal, another type of video signals can be outputted. The output signal is selected in 26 PIN OUT of the Camera SETUP menu screen.

(Y/C, RGB or component video signal)

-Memo:

- External input video signals will not be outputted from the VTR/RM multi-pin connector even when setting the VTR INPUT switch to AUX.
- Playback video of the VCR will not be outputted from the VTR/RM multi-pin connector.
- Call signals will be sent to the operator of the camera remote control unit while the CALL button is held down.
 During this time, the BACK TALLY lamp will blink. The BACK TALLY lamp will blink when the call signal is received.
- The screen will distort when inputting sync signals to both the main unit and camera remote control unit.
- When the power is set to ON during input of external synchronous signals, the screen may shift vertically for a few seconds; however, this is not a malfunction of the unit.
- Read the instruction manual of the camera remote control unit for the correct usage.

13-8 Connecting the camera remote control unit (Cont'd)

Operation

Set the POWER switch of the camera remote control unit to ON. About 30 seconds after turning the power on, the camera remote control unit will be operative.

-Memo:

After the POWER switch is turned on, the camera remote control unit takes about 30 seconds to prepare for correct communication with this unit.

■ Unavailable functions

The following functions are unavailable from the camera remote control unit.

• RM-P200 : AUTO SET NEGA

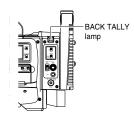
• RM-P300 : AUTO SET/BLACK

NEGA ABL

-Memo:

- If the switch functions for this unit and the camera remote control unit are the same, the switch function of the camera remote control unit will have priority.
- The IRIS AUTO/MANUAL setting will be the camera remote control unit switch setting regardless of the lens section switch setting.
- When using the camera remote control unit with the local remote control unit (RM-LP55/RM-LP57), the local remote control unit settings will have priority.
 See page 93

■ TALLY lamp display when the camera remote control unit is connected.



When the camera remote control unit is connected, the viewfinder (VF) FRONT TALLY lamp, REC/ALARM lamp inside the viewfinder and the BACK TALLY lamp are displayed as shown below.

	VF	ВА	CK TALLY	
	TALLY	BLINK*	ON*	OFF*
Preview signals of camera remote control unit	_	Green light on	Green light on	Off
TALLY signals of camera remote control unit	Red light on	Red light on	Red light on	Off
CALL signals of camera remote control unit	Red light flashing	Red light flashing	Red light flashing	Off
CALL signals of this unit	_	Red light flashing	Red light flashing	Off

- * The display method for the BACK TALLY lamp is set in VTR Setup menu No. 082 BACK TALLY MODE.
- ™ See page 74
- · Lamps are off for all other conditions.

For servicing

See the service manual page 1-17, "1.11 FUNCTION OF INTERNAL SWITCHES".

14. OTHERS

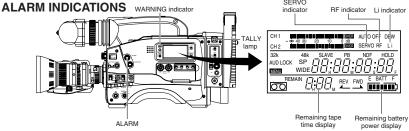
14-1 Troubleshooting

Warnings concerning problems with the unit are provide in the form of indicators, display indications and monitor tones. The warnings are of the following two types.

- Alarm indications: These indications are given to provide warning on the status of the unit, for example when the tape or battery pack should be replaced.
 First code display. In page an extensional design of the unit solf displayed the course and should the displayed the results.
- Error code display: In case an error occurs during operation, the unit self-diagnoses the cause and shows the diagnostics results
 on the counter display. When this happens, the unit stops operation automatically or ejects the videocassette.

CAUTION:

Alarms and error codes of the external VCR connected to the VTR/RM multi-pin connector will not be displayed.



When an alarm is indicated, the unit operates in the following ways.

Alarm Indicator on VCR Display	Symptom	VCR Operation and Remedy
DEW	Indicates dew formation (condensation).	Operation: The VTR rejects operation. Remedy: Leave the power on, and wait until the indication disappears.
SERVO (Counter display) "SYnc inh"	Lights in the case of troubles with the drum servo. Lights when the input sync signal is disturbed or the unit is subjected to physical shock. (Displayed only during recording or during playback of unrecorded portions.)	Operation: During recording the mode becomes the stop mode. During playback, playback of the disturbed video image continues. Permedy: Also check the input sync signal. Signal is disturbed when the unit is subject to a violent shock. In other cases, please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.
RF (Counter display) "HEAd CLoG"	Lights in case of video head clogging. (Head clogging is detected and indicated during playback and recording check using the RET button on the lens section.)	Operation: Continues. Remedy: Clean the head with the special head cleaning tape. (See "Precautions for Use of Head Cleaning Tape" on page 8.)
(Counter display) Pc TAPE	Improper cassette type	Operation: Operation stops. Remedy: Use recordable MiniDV cassette for recording video and audio.
(Counter display) 1394 inh	No signal is input to the DV connector. Copy-guarded signals are input.	Operation : Operation stops. Remedy : • Input signals to the DV connector. • Copy-guarded signals cannot be recorded.
Li	Lights when the lithium battery for backup of time code generator and date/time data is exhausted.	Operation: Continues. Remedy: Replace with a new lithium battery. See page 36.
Remaining tape time	* About 2 minutes before tape end. (The TALLY lamp and alarm sound are activated only in the record mode.)	Operation : Continues.
	* When the tape has ended completely.	Operation : Stops.
Remaining battery power E ÀÀÍŢ́〔 ■■□□□□□□	When the remaining battery capacity is low.	Operation: Continues. Remedy: Replace battery pack early.
美: ÀÁÍÍ: (10000000)	When the battery capacity drops to an insufficient level.	Operation: Stops automatically. The camera may generate abnormal signals. This is not a malfunction.

5

14-1 Troubleshooting (Cont'd)

Alarm Indications (Cont'd)

Depending on the alarm conditions, the warning indicators in the LCD display, the WARNING indicator, the TALLY lamp, alarm tones and the viewfinder appear as shown in the following table.

Alarm Indications		Viewfinder				
LCD Display	WARNING TALLY Alarm Tone		WARNING Lamp		On Screen Display	
Indicator	Lamp	Alaim Tone	REC Lamp	BATT. Lamp	On Screen Display	
"DEW" indicator	↔	↔	***	♦	_	VTR WARNING (DEW)
"SERVO" indicator "SYnc inh" indicator	↔	↔	***	↔	_	VTR WARNING (SERVO)
"RF" indicator "HEAd CLoG"	↔	↔	***	♦	_	VTR WARNING (HEAD)
indicator	(Only during the interval from when the VTR trigger button is pressed and until recording starts.)					
"Li" indicator	_	_	_	_	_	_
Remaining tape time	•	•			_	TAPE NEAR END
		(In record	d mode only)			About 2 min. before tape end.
	•	❸	***************************************	↔	_	TAPE END
Remaining battery power	•	•				
e :ÿàťť: ■■○○○○○		(Except	for play mode)		•	The voltage display of status screen 1 will flash.
#: BÀTT: 0000000	•	⊗	***************************************	↔	•	The voltage display of status screen 1 will flash.

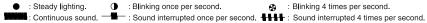
The WARNING indicator normally lights green or orange to indicate that operation is possible.

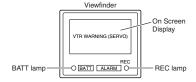
The color changes to red to indicate an alarm and appears as described above.

The alarm tone output is superimposed on the audio signal output from the monitoring loudspeaker or EARPHONE jack.

The volume of the alarm tone can be adjusted with the ALARM volume control.

Display symbols



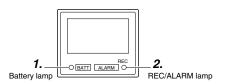


14. OTHERS

14-1 Troubleshooting (Cont'd)

WARNINGS IN VIEWFINDER

Viewfinder Warning Lamps



1. BATTERY lamp

This red lamp lights under the following circumstance.

Lights red: • When the battery voltage becomes too low for the camera to operate.

2. REC/ALARM lamp

This lamp lights or blinks green under the following conditions.

Lights Green: • While recording

- Blinks Green: . During the interval where the unit switches from record-pause to record mode
 - . Immediately before the tape runs out or has run out.
 - . If the unit malfunctions.

■ Character display warnings:

TAPE NEAR END: Less than 3 minutes tape remaining. TAPE END : The tape has run out.

■ Function Failures

When an abnormality occurs in the unit or an improper operation is performed, one of the following warning messages will appear in the viewfinder.

• VTR WARNING (HEAD):

Lights in case of video head clogging.

(Head clogging is detected and indicated during playback and recording check using the RET button on the lens section.)

• VTR WARNING (SERVO):

Lights in the case of drum servo trouble during recording.

VTR WARNING (DEW):

Lights when condensation occurs in the unit.

VTR WARNING (STOP):

Lights in case the unit stops operating.

VTR WARNING (HARD):

Lights when abnormality occurs in the unit.

• VTR WARNING (REW):

Lights when abnormality occurs with tape rewind operation.

• CLOSE CASSETTE COVER:

Lights when the cassette cover has not been closed.

· REC INHIBIT:

Indicated when an unrecordable videocassette (the switch on the back of the cassette is set to SAVE) is loaded. Displayed when copy-quarded IEEE1394 signals are

• NO TAPE:

Lights when the VTR trigger button is pressed with no videocassette loaded.

■ Warnings on the White Balance Function



· AUTO WHITE A, B

NG: OBJECT

Improper object.

- · Check whether the object being shot is white enough. · Check that selected filter suits the
- · AUTO WHITE A. B illumination conditions.

ERROR: LOW LIGHT Amount of incident light insufficient. · Check to see if it is necessary to

increase illumination or perform · AUTO WHITE A. B iris adiustment.

ERROR: OVER LIGHT Amount of incident light excessive.

 Check to see if illumination and iris adjustment are appropriate.

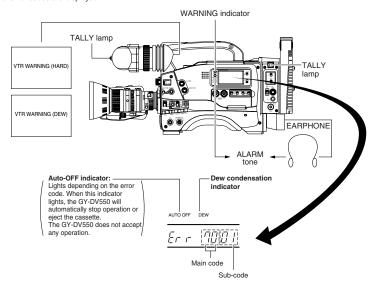


14. OTHERS

14-1 Troubleshooting (Cont'd)

In the case of troubles occurring during operation of the GY-DV550, it performs a self-test to identify the cause and displays the result in the form of an error code. The error code consists of the "main code" which indicates its contents and the "sub-code" which indicates the details. Depending on the status of the GY-DV550 at this time, indications may also appear on the LCD display, the WARNING indicator may activate and the alarm tone may be generated.

In the viewfinder, the "VTR WARNING (DEW)" indication appears when condensation is detected, and the "VTR WARNING (STOP)", "VTR WARNING (HARD)" or "VTR WARNING (REW)" indication appears depending on the contents of the error code when some of the other error codes are displayed.



WARNING indicator	Alarm Tone	Display	GY-DV550 Operation
Red, blinking	Continuous	"Error code"	Automatically ejects the cassette. It can be inserted again.
		"Error code" plus "AUTO OFF"	Automatically stops operation or ejects the cassette. (Auto OFF) * The GY-DV550 does not accept any operation.
Red, blinking	Intermittent	"DEW "	Dew condensation inside the unit. The GY-DV550 does not accept any operation until the DEW indicator disappears from the display.

- In the Auto OFF status, it is impossible to operate the GY-DV550. This condition can be cancelled by switching the OPERATE switch OFF and then switching it ON again. If the same problem occurs again after the power is turned ON, there may be something wrong with the GY-DV550. Please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.
- * If the display operates abnormally, Press the RESET switch inside the lithium battery case, and then set the OPERATE switch to ON again. (** See page 36)
 Please note that pressing the RESET switch will also reset

the time code data and time and date data.

The GY-DV550 is a microcomputer-controlled piece of equipment, which may malfunction due to external noise or interference. In this case, set the OPERATE switch to OFF, remove the lithium backup battery, and then set the OPERATE switch to ON again after a few minutes.

14. OTHERS

14-1 Troubleshooting (Cont'd)

TROUBLES WITH ERROR CODE OUTPUTS

Error Code	Error Details	GY-DV550 Operation	Remedy	
3200	Tape loading impossible.	Operation stops. All operations are rejected.	Switch the power OFF and then switch it back ON. However, the tape	
3300	Tape unloading impossible.	Operation stops. All operations are rejected.	may be damaged depending on the situation. Please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.	
4100	Irregular eject operation.	Operation stops. All operations are rejected.		
4200	Cassette housing abnormality.	Operation stops. All operations are rejected.		
5605	Tape is cut.	Operation stops. All operations are rejected.	Open the cassette cover by using the EJECT switch and then switch the power ON again.	
5606 to 5607	Tape is slack.	Operation stops. All operations are rejected.	Switch the power OFF and then switch it back ON. However, the tape may be damaged depending on the situation. Please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.	
5702	Tape end sensor error.	Operation stops. All operations are rejected.		
5802	Tape beginning sensor error.	Operation stops. All operations are rejected.		
7001	Drum rotation stopped.	Operation stops. All operations are rejected.		
7101	Capstan rotation stopped.	Operation stops. All operations are rejected.		
7202 to 7203	Supply reel rotation error.	Operation stops. All operations are rejected.		
7302 to 7303	Take up reel rotation error.	Operation stops. All operations are rejected.		
7305	Irregular tape winding when unloading.	Operation stops. All operations are rejected.		

For servicing —

See the service manual page 1-29, "1.19 WARNING CODES".

14. OTHERS

14-1 Troubleshooting (Cont'd)

TROUBLES WITHOUT ERROR CODE OUTPUTS

Symptoms	Remedy	
Power cannot be switched ON.	Is power supply connected properly? Is battery pack recharged? When the lithium battery is depleted, it may not be possible to turn on the power. Was the power turned ON immediately after being turned OFF? Wait at least 5 seconds before turning the power ON again once it has been turned OFF.	
Operation buttons on the GY-DV550 don't work.	Check whether the VCR Setup Menu item No. 050 REMOTE SELECT has been se to "IEEE1394" or "RS232C". If so, change the setting to "LOCAL". Is the cassette cover open? The GY-DV550 remains inoperative as long as the cassette door is open.	
Recording is not possible.	Is switch on cassette set to REC? If it is set to SAVE, set it to REC.	
Noise interferes with playback video.	Video head may be clogged with dirt. Clean head with the special head cleaning tape. (See "Precautions for Use of Head Cleaning Tape" on page 8.)	
Sound and picture are disturbed during playback.	Is the sync signal input to the GENLOCK IN connector disturbed? If so, check and remedy the input sync signal.	
Time code data is not shown as on-screen-display.	Time code data is not shown as on-screen-display during recording or playback The data is shown only on the counter display.	
Time code and user's bit data are not shown on the counter display.	Is the COUNTER switch set to "CTL"? If so, set the switch to "TC" or "UB".	
Remaining battery power display is incorrect. Battery alarm is displayed and the GY-DV550 enters the non-operating mode even when a fully charged battery is used.	The VCR Setup Menu item No. 396 BATTERY TYPE may not be set correctly in accordance with the type of battery in use. If the menu item setting is incorrect, se it correctly using the VCR setup menu item BATTERY TYPE. Is the battery old?	
Cassette cannot be ejected after the power is turned ON.	The capacity of the power supply may be insufficient. Check the power voltage.	
Viewfinder image looks dark or unclear.	Adjust the viewfinder's contrast and bright controls. Is the filter turret set to 5600K+ND? Is the iris closed? Is the shutter speed too fast? Is the viewfinder cable correctly connected?	
Noise appears when playing back a tape recorded on another unit.	When a tape recorded on another unit is played back or used for recording, this phenomenon may occur due to tracking errors.	
The transient section between scenes recorded on other units and those recorded on this unit may appear disturbed.		
The front section's recording level control doesn't work.	Is the VCR Setup Menu item No. 246 CH1 FRONT VR ENABLE set to "DISABLE". If so, set to "ENABLE".	
The front section's recording level control doesn't change the recording level of the sound input to CH2.	The front section's recording level control cannot be used to change the recording level of the sound input to CH2. Use the side section's CH2 recording level contro for this purpose.	
Recording operation stopped.	Is the SERVO indicator or "SYNC INH" displayed on the counter display? If so, check the input sync signal.	

101 102

For servicing

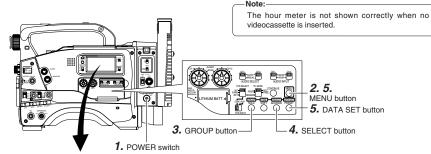
See the service manual page 1-25,
"1.14.4 HOUR METER".

14. OTHERS

14-2 Hour Meter Display

The unit can display the accumulated running time of the head drum as hour meter data on the counter display. The hour meter can be displayed by selecting HM (HOUR METER) on the VCR Setup Menu. Use this as a guide for periodical maintenance.

See page 8.



Counter display

dH 00 02 00

Accumulated drum running time: 200 hrs.

Viewfinder

(HOUR METER) 決任 DRIM HOUR METER 000200H

- 1. Set the POWER switch to ON.
- Press the MENU button to display the VCR Setup Menu. "MENU" lights in the display, and the VCR Setup Menu's group menu appears in the viewfinder and on the counter display.
- 3. Press the GROUP button and choose "HM: HOUR METER".
 "HM HOUR METER" is shown blinking in the viewfinder. The counter display shows "Hour".
- 4. Press the SELECT button.

 The accumulated running time of the head drum is indicated in the viewfinder and on the counter display.
- 5. To return to the normal mode, press the DATA SET button.
 Pressing the MENU button returns you to the group menu.



14-3 Specifications

■ CAMERA SECTIO	N	
Image pickup devi	ces: 1/2-inch interline CCD x 3	
Color separation of	ptical system:	
	F1.4 3-color separation prism	
Number of effective	e pixels:	
	Approx. 380,000 pixels ((H) 768 x	
	(V) 494)	
Color system	: NTSC (R-Y, B-Y encoder)	
Color bars	: SMPTE color bar	
Sync system	: Internal sync (built-in SSG)	
	External sync (VBS or BB)	
Lens mount	: Bayonet system	
	(compatible with 1/2-inch lenses)	
Optical filter	: 3200 K, 5600K + 1/8ND, 5600 K +	
•	1/64ND	
Sensitivity	: F11, 2000 lx	

Calculated value S/N (VIDEO OUT output): 62 dB (Typical) Horizontal resolution: 750 lines (Center) : -3, 0, 3, 6, 9, 12, 18 dB, ALC, LOLUX, Gain

Shutter speed : 1/100, 1/250, 1/500, 1/1000, 1/2000 V.SCAN speed : 60.1 Hz to 2084.6 Hz

Minimum illumination: 0.75 lx (F1.4, LOLUX mode)

Registration : 0.05% or less (excluding lens

distortion)

Contour correction : Horizontal: dual-edged. Vertical: 2 H

■ VCR SECTION

Format : Mini DV (SP mode only) Tape speed : 18.812 mm/s Record/Play time : 60 minutes

(With M-DV60ME cassette) F.F/Rewind time : Approx. 3 minutes 30 seconds

(With M-DV60ME cassette)

[VIDEO]

Recording format : 8-bit, 13.5 MHz, 4:1:1 component

recordina

[AUDIO]

Recording format : 16-bit. 48 kHz. 2-channel PCM audio/12-bit, 32 kHz 4-channel

PCM audio (2 channels only for recording)

Frequency response : 20 Hz to 20 kHz Wow & flutter : Below measurable limit

[Time Code System]

Time code signal : Compliance with SMPTE standard LTC input : 0 dBs ± 6 dBs, high impedance,

unbalanced

LTC output : 0 dBs ± 6 dBs, low impedance,

unhalanced

■ INPUT/OUTPUT SIGNALS

Video signal output : 1 V (p-p), 75 ohms (BNC) unbalanced composite output.

YC output : Y 1 V (p-p) 75 ohms unbalance C 0.286 V (p-p) 75 ohms unbalance (4-pin)

PROMPTER output : Return/prompter video signal

output

External video signal Composite video signals 1 V (p-p) ±0.3 V (p-p) 75 ohms

unbalance (BNC) Bandwidth 6.75 MHz

VTR/RM multi-pin : Camera composite video signal

connector output

(Y/C/RGB/CPN can be selected

in menu) (26-pin) : 12-pin connector

Lens **Audio input** : Microphone -60dBs, 3 kohm I ine

balanced +4dBs, 10 kohm

balanced **Audio output** : -6 dBs, low impedance, unbalanced Earphone output : -60 dBs to -17 dBs, at 8-ohm load Monaural audio (mini jack)

: 12V DC (11V to 15 V DC) (XLR-4) DC input Auxiliary power output: 12 V DC, max. 0.1A (11V to 15 V

DC)

DV connector 4-pin RS-232C : Mini DIN 6-pin

■ GENERAL

Power consumption: 34 W (when recording) Mass : Approx. 4 kg Operating temperatures: 0 °C to 40 °C Operating humidity : 30 % to 80 % RH Storage temperatures: -20 °C to 60 °C

■ ACCESSORIES

Microphone : x 1 Tripod base : x 1 Lithium battery : x 1 (CR2032) Head cleaning tape : x 1 Instructions : x 1

Design and specifications are subject to change without notice

14-3 Specifications

■ CAMERA SECTION

Image pickup devices: 1/2-inch interline CCD x 3

Colour separation optical system:

F1.4 3-colour separation prism

Number of effective pixels:

Approx. 440,000 pixels ((H) 752 x (V) 582)

Colour system PAL (R-Y, B-Y encoder) Colour bars EBU colour bar

Sync system : Internal sync (built-in SSG) External sync (VBS or BB)

Lens mount : Bavonet system

(compatible with 1/2-inch lenses) Optical filter : 3200 K, 5600K + 1/8ND, 5600 K +

1/64ND

Sensitivity : F11, 2000 lx Minimum illumination: 0.75 lx (F1.4, LOLUX mode)

Calculated value

: 60 dB (Typical) S/N (VIDEO OUT output) : Horizontal resolution: 750 lines (Center)

-3, 0, 3, 6, 9, 12, 18 dB, ALC, LOLUX, Gain Shutter speed : 1/120, 1/250, 1/500, 1/1000, 1/2000

V.SCAN speed : 50.1 Hz to 2067.8

Registration : 0.05% or less (excluding lens

distortion)

: Horizontal: dual-edged, Vertical: 2 H Contour correction

■ VCR SECTION

Format : Mini DV (SP mode only)

Tape speed : 18.831 mm/s Record/Play time 60 minutes

(With M-DV60ME cassette) F.F/Rewind time Approx. 3 minutes 30 seconds

(With M-DV60ME cassette)

[VIDEO]

Recording format : 8-bit, 13.5 MHz, 4:2:0 component

recordina

[AUDIO]

Recording format : 16-bit, 48 kHz, 4-channel PCM

audio/12-bit, 32 kHz 4-channel PCM audio (2 channels only for recording)

Frequency response : 20 Hz to 20 kHz Wow & flutter Below measurable limit

[Time Code System]

Time code signal LTC input

: Compliance with EBU standard : 0 dBs ± 6 dBs, high impedance, unhalanced

: 0 dBs ± 6 dBs, low impedance, LTC output

unhalanced

■ INPUT/OUTPUT SIGNALS

Video signal output : 1 V (p-p), 75 ohms (BNC) unbalanced composite output.

YC output : Y 1 V (p-p) 75 ohms unbalance

> C 0.3 V (p-p) 75 ohms unbalance (4-pin)

PROMPTER output : Return/prompter video signal

output

External video signal : Composite video signals

1 V (p-p) ±0.3 V (p-p) 75 ohms

unbalance (BNC)

Bandwidth 6.75 MHz

: Camera composite video signal

output (Y/C / RGB / CPN Can be

selected in menu) (26-pin)

Lens : 12-pin connector

Audio input : Microphone -60dBs, 3 kohm

> balanced +4dBs, 10 kohm Line

balanced

Audio output : -6 dBs. low impedance, unbalanced Earphone output : -60 dBs to -17 dBs, at 8-ohm load

Monaural audio (mini iack)

DC input : 12V DC (11V to 15 V DC) (XLR-4)

Auxiliary power output: 12 V DC, max. 0.1A (11V to 15 V DC)

DV connector : 4-pin RS-232C : Mini DIN 6-pin

■ GENERAL

input

VCR/RM multi-pin

connector

Power consumption: 12V = 2.8A with VF-P400 (when

recording) : Approx. 4 kg

Mass Operating temperatures: 0 °C to 40 °C Operating humidity : 30 % to 80 % RH Storage temperatures: -20 °C to 60 °C

■ ACCESSORIES

Instructions

Microphone : x 1 Tripod base : x 1 Lithium battery : x 1 (CR2032) Head cleaning tape : x 1

: x 1

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14. OTHERS

14-3 Specifications

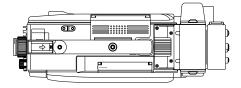
OPTIONAL ACCESSORIES

Viewfinder : VF-P115B, VF-P116
Power zoom lens : S14 x 7.3B12, S16 x 6.7B12
S19 x 6.5B12 (FUJINON)

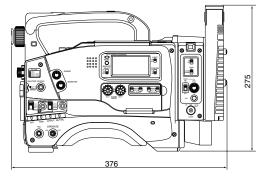
YH14 x 7.3K12, YH18 x 6.7K12 (CANON)

AC power adapter : AA-P250 Microphone : MV-P615 Microphone holder : KA-A50

EXTERNAL DIMENSIONS (unit: mm)







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