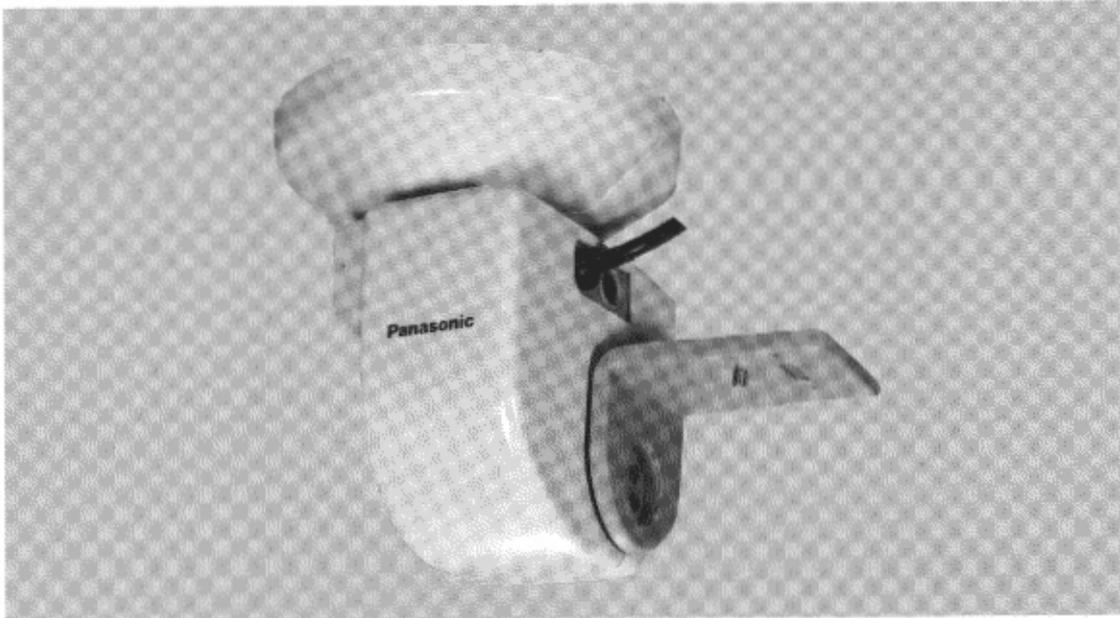


Operating Instructions

Indoor Pan/Tilt
WV-7225



Panasonic.

Before attempting to connect or operate this product, please read these instructions completely.

CONTENTS

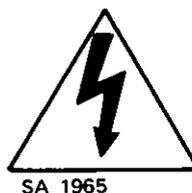
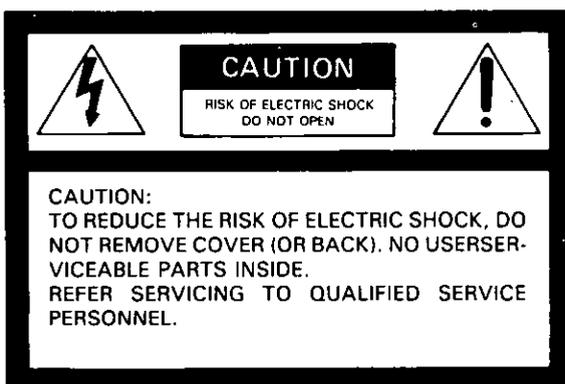
INTRODUCTION	1
PRECAUTIONS	1
MAJOR OPERATING CONTROLLERS AND FUNCTIONS	2
INSTALLATION	4
APPLICABLE CAMERAS, LENSES AND HOUSINGS	5
TYPICAL SYSTEM CONNECTIONS	6
ADJUSTMENTS	9
APPEARANCE	10
SPECIFICATIONS	10
ACCESSORIES	10

INTRODUCTION

The WV-7225 Pan/Tilt allows to use with the combination of WV-CU254 Remote Control Unit and Indoor Receiver WV-RC100 and to mount on the supervision camera and WV-7110 or 7120D Camera Housing.

PRECAUTIONS

- Do not attempt to disassemble this unit. There are no user serviceable parts inside . Refer servicing to qualified service personnel.
- Use this unit within it's rating.
 - (a) Designed for indoor use.
Ambient temperature: 14°F - 122°F (-10°C - +50°C)
 - (b) Avoid using this unit when humidity is above 90%.
- The standard Indoor Pan/Tilt Model WV-7225 is designed for indoor use. Avoid mounting it outdoors under the eaves or any other place where rain or moisture could be problem.
- A camera with various lenses and a camera housing can be used. Select a location where the total weight is sufficiently support and firmly fix the units onto plywood, gypsum board, plaster board or concrete. Install the panning head before mounting the camera on it.
- Mount on flat surface - flat ceiling or mounting bracket.
- Do not drop the metallic parts through slots. This action could permanently damage the indoor pan/tilt head. Do turn power off immediately and refer servicing to qualified service personnel.
- Wipe the enclosure regularly, using a soft, dry cloth, or a cloth moistend with a solution of water and normal kitchen detergent. Do not use chemicals for cleaning the enclosure, as same chemicals may damage the surface.
- If don't mount on the pan/tilt head(WV-7030), provide the mounting screws in speciality for it. Select the mounting screws with taking into consideration.
- Use with the remote control unit (WV-CU254) and the indoor receiver (WV-RC100).
- Use the camera housing unit such as WV-7110 or WV-7120D.
- Every necessary procedures with regard to install this product should be made by qualified Service Personnel or System Installers.

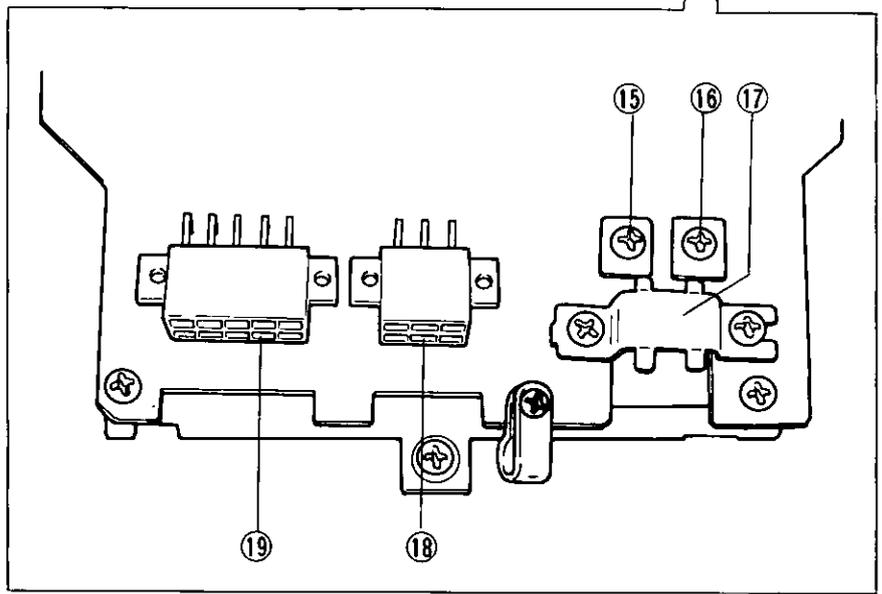
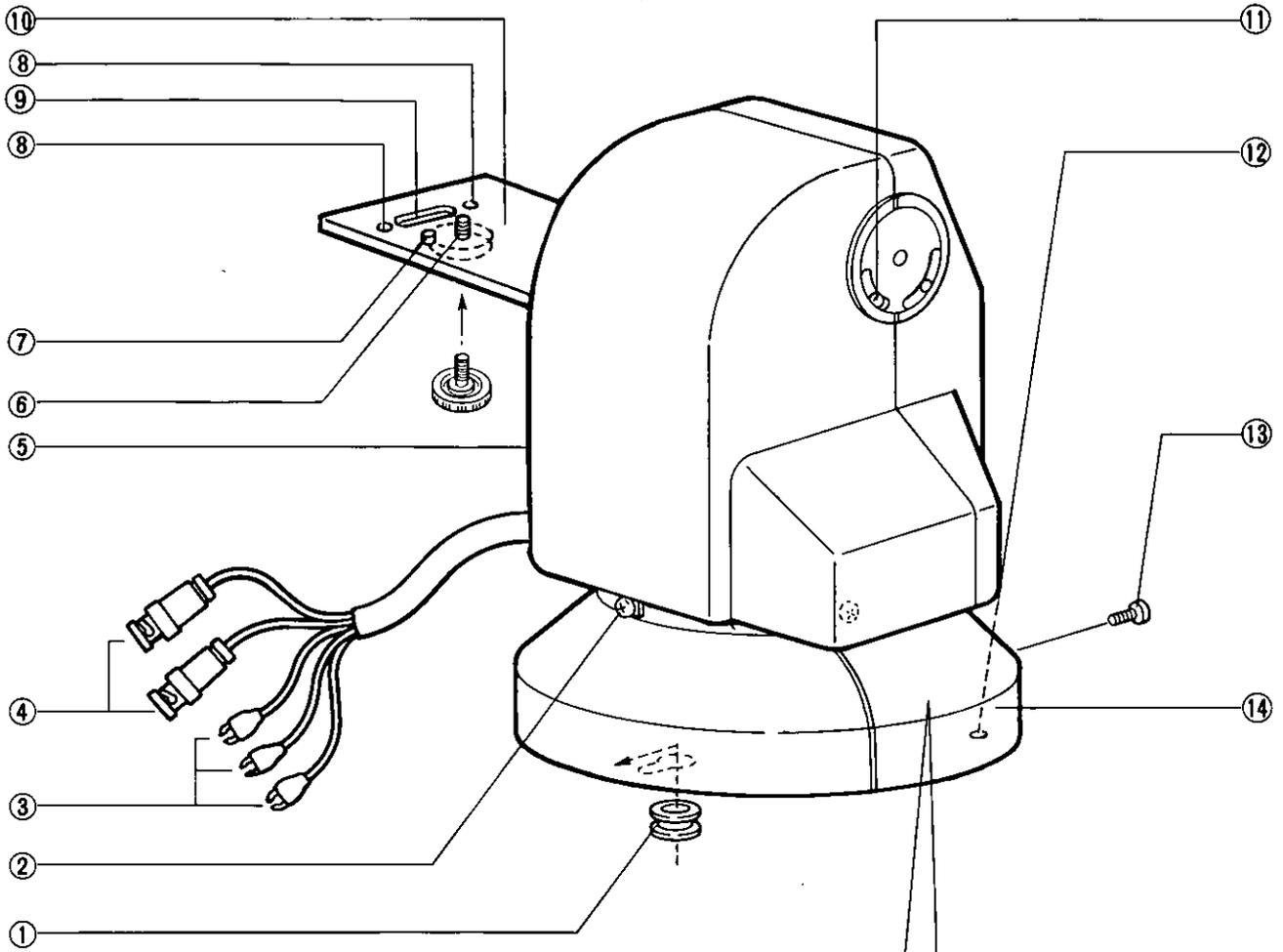


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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.

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS _____



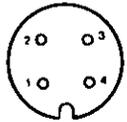
(1) Pan/Tilt Head Mounting Ring
When the pan/tilt head is mounted, after screwing this ring hanged it, fix it with other two positions.

(2) Pan Limit Stops
Adjustable panning angle 20° - 340°. See page 9.

(3) Camera Power Cable
Connect to the 24V AC TV Camera.
RED: Camera
BLACK: AC Common
GREEN: Ground

(4) BNC Type Coaxial Cable
V : Connect to the Video Output of the Camera.
S : Connect to the GEN LOCK of the Camera.

(5) Zoom Control Connector
(4pin connector of Hershman)
The cable of zoom lens is connected to this connector.



- 1. DC COM
- 2. IRIS
- 3. FOCUS
- 4. ZOOM

(6) Camera Mounting Screw

(7) Camera Guide Pin

(8) Camera Guide Pin Holes

(9) Housing Mounting Hole

(10) Camera or Housing Mounting Plate

(11) Tilt Limit Stops
Adjustable tilting angle :
Up : 0° - 45°, Down : 0° - 45°
See page 9.

(12) Pan/Tilt Head Mounting Hole
This hole (2-φ8) is used to mount the pan/tilt head.
In case of not using the mounting bracket (WV-7030),
prepare the necessary screws.

(13) Base Rear Cover Mounting Screw

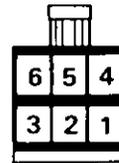
(14) Base Rear Cover
Remove this cover, the control connectors are in this cover.

(15) Coaxial Cable Terminal (VIDEO)

(16) Coaxial Cable Terminal (EXT SYNC)

(17) Frame Ground
This ground is for coaxial cables.

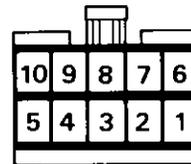
(18) Control Connector - 1 (6 pins)



CN-2

- 1 : LEFT
- 2 : RIGHT
- 3 : AUTO
- 4 : CAMERA
- 5 : AC Common
- 6 : Ground

(19) Control Connector - 2 (10 pins)

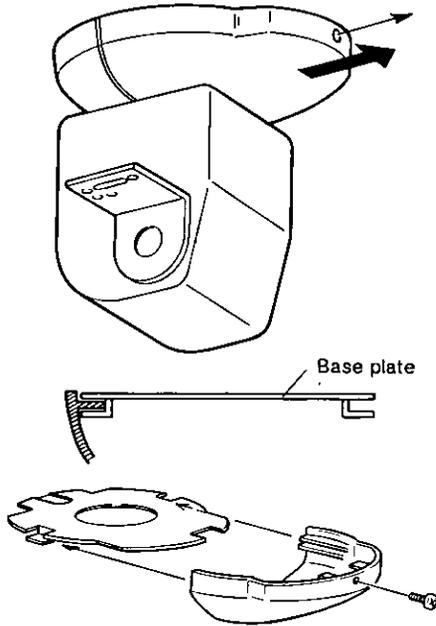


CN-1

- 1 : UP
- 2 : DOWN
- 3 : DC Common
- 4 : Iris Control
- 5 : Focus Control
- 6 : Zoom Control
- 7 : No Connection
- 8 : No Connection
- 9 : No Connection
- 10 : No Connection

INSTALLATION

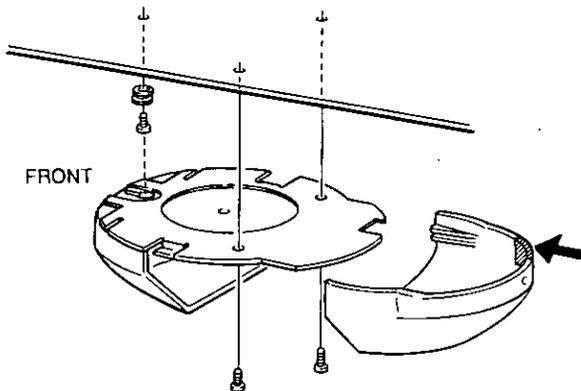
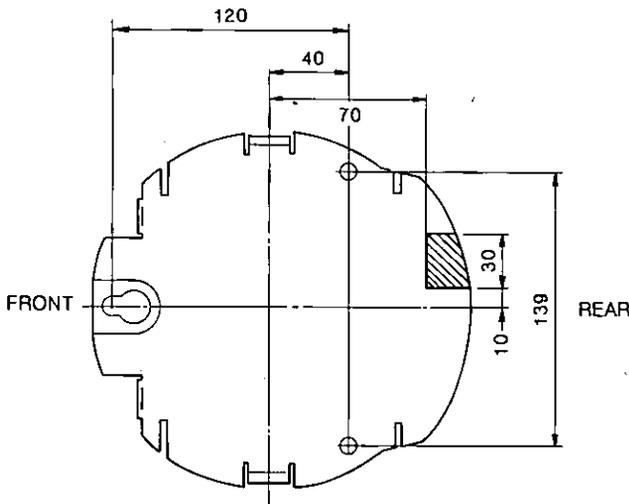
1. Retighten the Cover Locking Screws and remove the Cover.



- After mounting and wiring the pan/tilt head, replace the cover.
- Engage on the Base Plate with the mounting groove in the Cover and tighten it with screws.

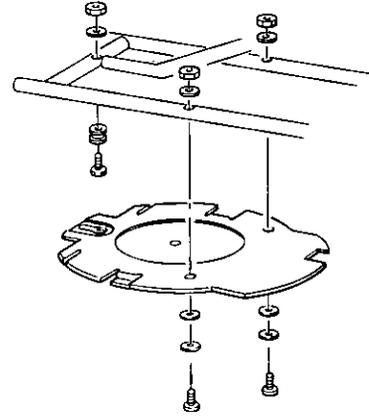
2. When mounting directly to flat ceiling:

- Make four holes for mounting the pan/tilt head. (Screws are not provided.)
- Holes in the head are 5/8"(8mm).

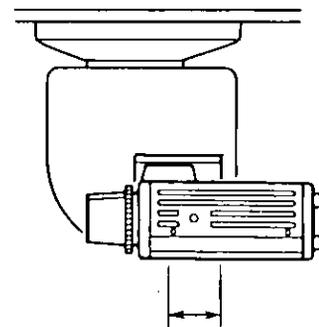
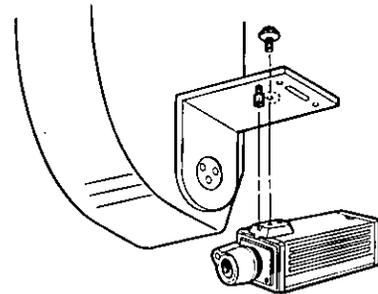


3. When using the mounting bracket(WV-7030)

- Use four hex head bolts, plain washers, lock washers and hex nuts (provided with the WV-7030) as shown below.
- After wiring, replace the cover.



4. Mount the low voltage camera on the mounting plate.. Mount the TV Camera and lens to the mounting plate using with the camera mounting screw.



within 1-5/8"(5 cm)

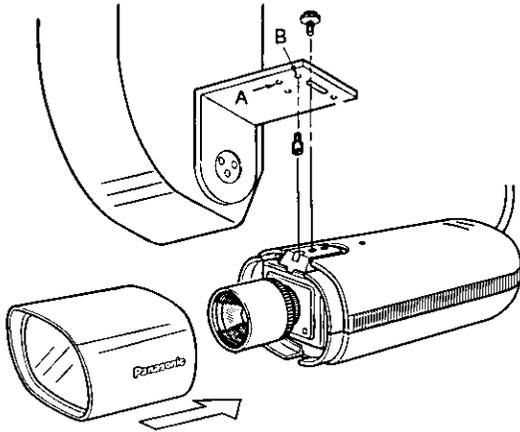
Caution:

- Use the TV camera of AC 24V.
- Mount the camera and lens at a center (within 1-5/8") of these length to the mounting plate.

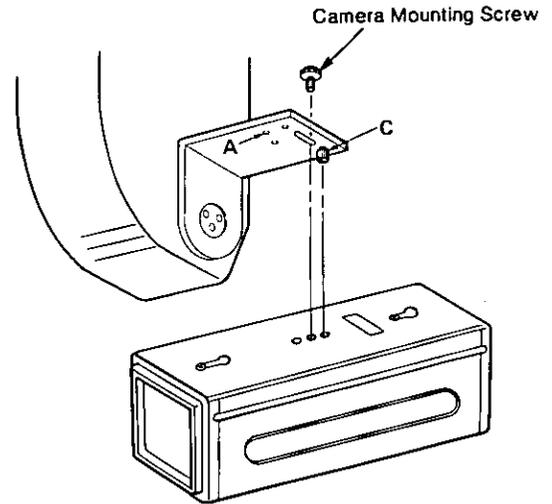
CAUTION:

When carrying unit do not grasp by the case. Instead, support entire unit with hands when transporting.

5. Mount the indoor camera housing (WV-7110) on the Mounting Plate.
 - Remove the Camera Guide Pin to B position from A position.
 - Mount the camera housing using with the Camera Mounting Screw.



6. Mount the indoor Camera housing (WV-7120D) on the Mounting Plate.
 - Remove the Camera Guide Pin to C position from A position.
 - After mounting the camera housing with using the Camera Mounting Screw, mount the TV Camera on it.



APPLICABLE CAMERAS, LENSES AND HOUSINGS

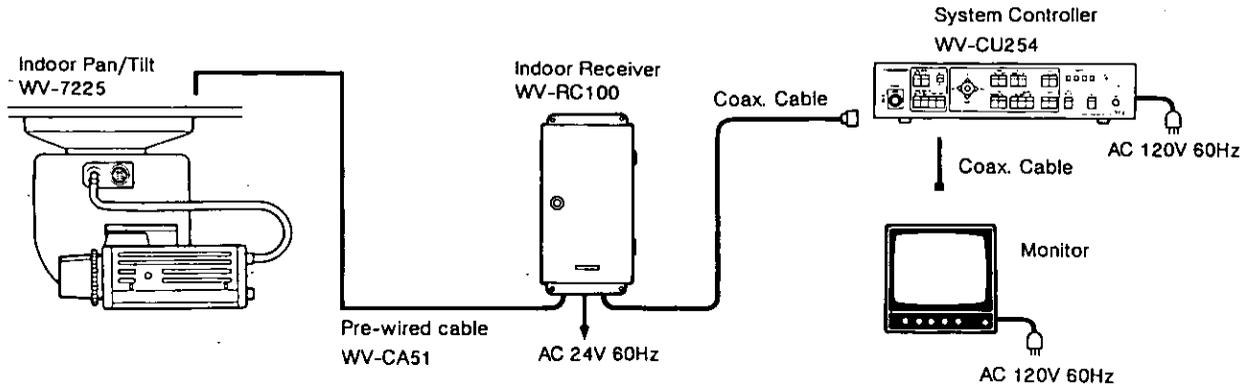
The recommended combination of the Panasonic camera, lenses and housings to WV-7225 is shown in the following table.

Camera \ Housing \ Lens		None		WV-7110		WV-7120D			
		for 1/2"		for 2/3"		for 1/2"		for 2/3"	
		Fixed lens	WV-LZ81/6	Fixed lens	Fixed lens	WV-LZ81/6	Fixed lens	Fixed lens	WV-LZ81/6
2/3" Tube	WV-1414			○					
	WV-1464			○					
	WV-1504			○					
	WV-1554			○					
2/3" CCD	WV-CD134			○					○
	WV-CD24			○		○			○
	WV-BD404			○		○			○
1/2" CCD	WV-BL204	○	○	○	○	○	○	○	○
	WV-CL304	○	○	○	○	○	○	○	○
	WV-BL604	○	○	○	○	○	○	○	○
	WV-CL704	○	○	○	○	○	○	○	○

○ possible
 × impossible

<Panasonic Lens Only>

TYPICAL SYSTEM CONNECTIONS



CONNECTION

PRECAUTION:

- Make all connections with the power turned OFF.
 - Avoid shorting the terminals, as this may blow a fuse.
- If the installation is to be upside-down, the Pan Left-right and Tilt Up-Down directions will be reversed. This must be considered when the wiring done. In this case, replace 1 and 2 pins of CN1 and CN2.
- If the pre-wired cable WV-CA51 is used, replace them as the above using with MOLEX bland tool 57031-6000.

• Wiring for Pan/Tilt and Motorized Zoom, Focus, Iris Control

		Control Voltage	Control Current
ZOOM	TELE	-6V DC	
	WIDE	+6V DC	
FOCUS	NEAR	-6V DC	Less than 100 mA
	FAR	+6V DC	
IRIS	OPEN	-6V DC	
	CLOSE	+6V DC	

When using a camera with motorized zoom, focus and iris, these connections should be made.

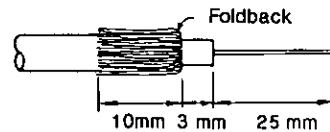
Note:

Lens control cable should be approx. 39" to allow sufficient room for Pan/Tilt

• Wiring of Coaxial Cable

Wiring preparation:

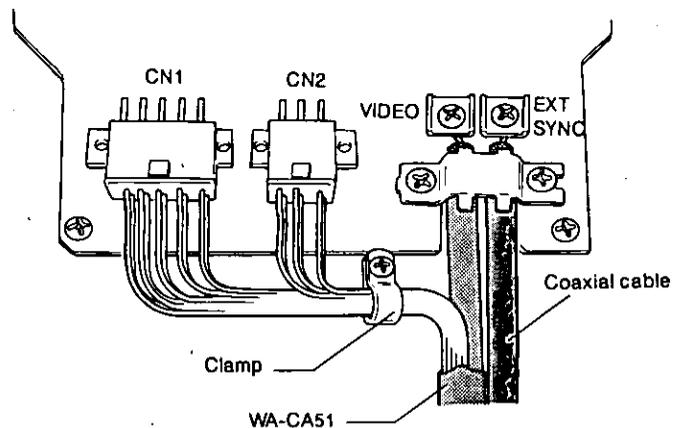
Prepare coaxial cables as shown as below.



1. Hold the shield wires
2. Connect the inner conductor
3. Clamp the shield wires (Under the embossed side)

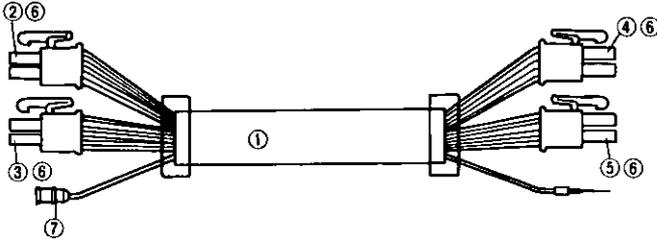
CAUTION:

Use the following conditions cable.
 Impedance: 75Ω
 Diameter: $\phi 8$ mm or less
 Example: RG59/U (BELDEN9259)



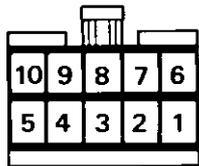
In case of using the connection (WV-CA51)

The appearance of WV-CA51 is shown in the drawing.

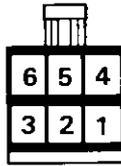


No.	Parts Name
1	17 wires cable
2	14P Housing
3	12P Housing
4	10P Housing
5	6P Housing
6	Contact
7	BNC Connector

In case of using the accessory connectors (MX5557P08) (MX5557P10)



CN-1



CN-2

WV-7225 side

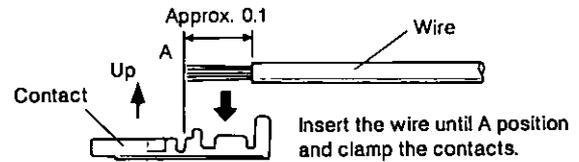
CN Pin No. WV-7225	Usage of Terminal	Power Source
CN2-1	LEFT	24V AC
CN2-2	RIGHT	
CN2-3	AUTO PAN	
CN2-4	24V AC CAMERA	
CN2-5	AC COMMON	24V AC COMMON
CN1-3	DC COMMON	±6V DC COMMON
CN1-4	IRIS	±6V DC
CN1-5	FOCUS	
CN1-6	ZOOM	
CN2-6	GND	

The approx. maximum cable length is the following wire gauge is shown in the chart.

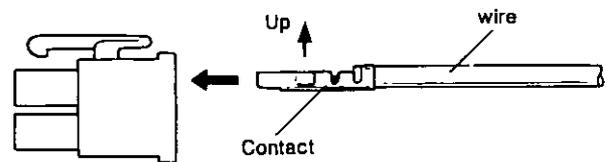
AWG size (UL1007 UL1015)	Impedance (Ω/km)	Conductor	
		ft	m
#24	77.9	32	10
		49	15
#22	50.4	78	24
		139	40

How to assemble the connector

- Strip back the cable jacket about 0.1 inches (3 mm) and separate the individual conductors.
- Prepare the individual conductors for soldering or clamping. If clamping, use MOLEX brand tool part number 57027-5000 (for UL-Style cable UL1015) or 57026 - 5000 (for UL-Style Cable UL1007)



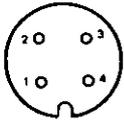
- After soldering or clamping the contacts push them into the proper holes in the connector housing until they snap in place.



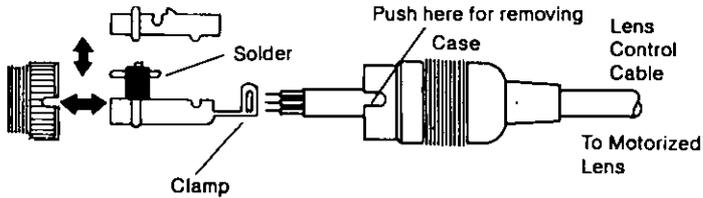
In case of using WV-CU254, refer to it's manuals.

Zoom Control Connector

The control connector of the motorized zoom lens should be a 4-pin connector, Hirschman type Mas 4100. If it is not, substitute the existing connector with the Mas 4100 supplied, according to the following diagram:



1. DC COM
2. IRIS
3. FOCUS
4. ZOOM



End of Wiring

1. Turn on the End of wiring Power ON/OFF Switch of the TV camera.
2. Connect the power cord of the Indoor Receiver to a grounded electrical outlet, 24V AC.
3. Turn on the power ON/OFF Switch of the Indoor Receiver.

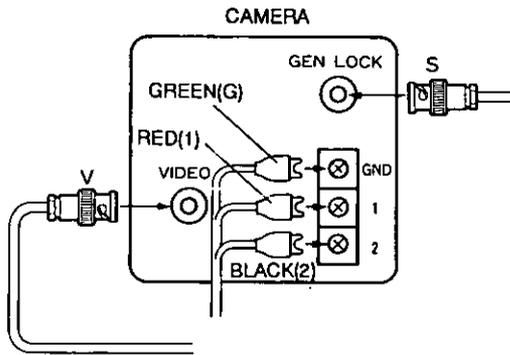
Connection with TV Camera

Camera Power Cable

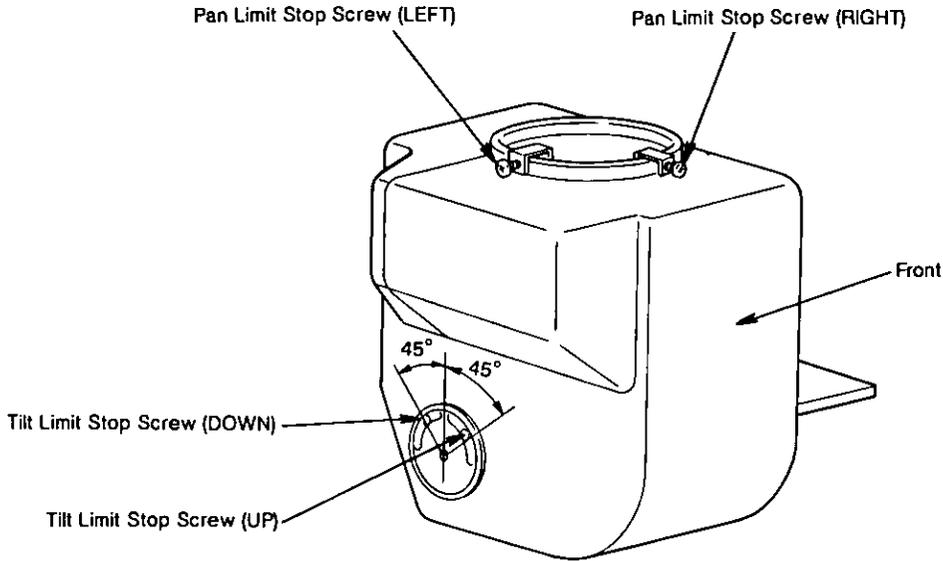
Connect the spade lug connectors to the 24V AC Power Terminal Strip of the lowvoltage camera, according to the diagram.

Camera Cable

Connect the Camera Cable to the video output connector of the lowvoltage camera.

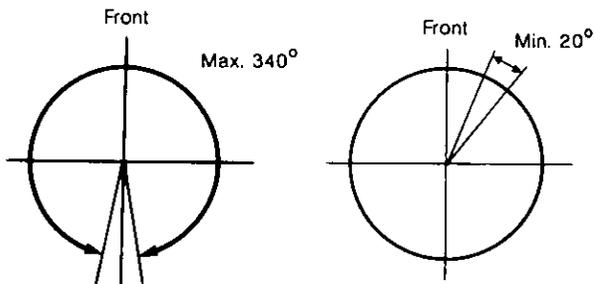


ADJUSTMENTS



A. Panning Angle

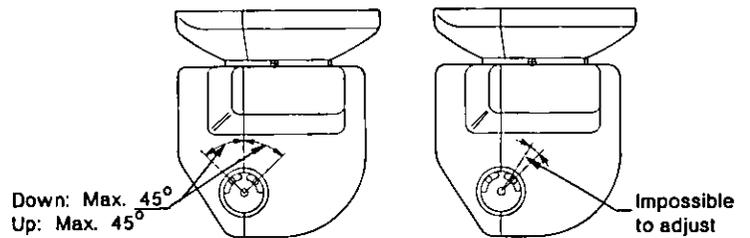
1. Loosen the Pan Limit Stops.
2. Press on the ON/OFF Switch ON to energize the unit, then rotate Pan/Tilt Head using the joystick Pan/Tilt Control unit the desired right pan limit is reached.
3. Locate the right pan limit stop and move until it contacts limit switch inside the Pan/Tilt Head. Move stop additional slight amount until a "click" is heard indicating opening of limit switch. Lock the stop in place.
4. Rotate the Pan/Tilt Head to the desired left limit position. Adjust the left pan limit stop as was done for the right limit stop.



5. With both limit stops, pan to both stop positions and recheck for exact positioning of limit stops. Tighten both stops securely.

B. Tilting Angle

1. Loosen the recessed two Tilt Limit Stops and rotate Pan/Tilt Control unit desired upward limit is reached.
2. Move the upward limit stop toward the bottom of the slot until a "click" can be heard. Tighten screw.
3. Adjust the downward limit stop the same way.
4. Lock the limit stops securely in place after checking for exact positioning.



Panasonic

Communications & Systems Company

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