

LCD COLOUR TV USER'S MANUAL

LCD3201EU



Part No: IES040723

WELCOME TO THE PERFECT VIEW WORLD OF HISENSE LCD TV

Dear customer,

Thank you for choosing this LCD Colour TV. We expect our product and service will comfort you for long. This manual is to guide you to set up and operate your TV as quickly as possible. Please read all the safety and operation instructions carefully before you begin and then follow what the handbook tells.

SAFETY CLASS

This is an IEC safety class I product and must be grounded for safety.

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Design and specifications are subject to change without notice.

IMPORTANT SAFEGUARD

FIRE AND SHOCK PRECAUTIONS

- Adequate ventilation must be provided to prevent heat build up inside unit. Keep the inside of unit free from foreign objects, such as hairpins, nails, paper, etc. Do not build the set into a bookcase or other enclosures in which it would be poorly ventilated. Do not place it on carpet or a bed as low ventilation boles could become obstructed.
- Do not set liquids, including flower vases and vessels filled with chemicals or water etc., On top of the unit as liquid could get inside the unit. If a hazardous object falls inside the TV set, unplug it immediately and call a qualified technician for removal.
- When placing or moving the TV set, take care to insure that the power cord is fitted into the allocated slot. To avoid damage to the power cord, never allow heavy objects such as the TV set itself to be placed on the power cord. Keep cord away from radiating appliances. Do not allow cord to become knotted or tangled. Do not lengthen the cord. When removing the power plug from the socket, always hold onto the plug, never pull by the cord.
- This TV set shall be connected to a main socket outlet with a protective earthing contaction
- The main plug and main switch should be remain readily operable after installation
- No naked flame sources, such as lighted candles, should be placed on the apparatus
- Minimum distances around the apparatus for sufficient ventilation
- The use of apparatus in moderate climates

WARNING

- Do not remove the back cover of the TV set. Accidental contact with high voltage components could result in electric shock. When internal adjustment is necessary, please contact your distributor.
- If your set produces sound but no picture, or it emits smoke or produces a strange sound or smell, continue operation is dangerous. Immediately turn off power and remove the power plug from the socket and contact your distributor.
- During vacation or other occasions when you will not be using the set for an extended period, remove the power plug from the socket.
- This appliance should not be operated by children or infirm persons without adequate supervision.

Preparation for Using your new TV

Selecting a location for the TV

1)Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.

2)Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

NOTE: Please contact local dealer for wall mounting.

Learning about your TV

You can operate your TV by using the buttons on the front panel or the remote control. The terminals on the back panel provide all the connections you will need to connect other equipment to your TV.

Front Controls



Note: The above figures are for reference only, please refer to the actual units to determine their appearance.

Preparation for Using your new TV

- 1 Power Switch(ON/OFF)
- 2 Channel down / cursor down
- ③ Channel up / cursor up
- 4 Volume down / cursor left
- 5 Volume up / cursor right
- 6 Menu button
- ⑦ Source select
- 8 Power button (standby)
- 9 Headphone output

Connecting your TV

Caution: Do not plug the TV in until you have finished connecting all of your equipment.

Connecting to A/V equipments

HDTV STB

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To enjoy its multimedia features, you can connect your TV to A/V equipments such as VCR, DVD, STB, Satellite receiver, Camcorder, Audio amplifier etc., and select signal sources using your remote control. Connect the devices as shown below.

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VCD. DVD

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ANT 75 0 R L PC-AUDIO S-VIDEO VIDEO

Left

1 Power indicator

(13) AV audio input

PC audio input

⁽⁵⁾ S-Video input

⁽⁶⁾ AV Video input

18 PC VGA input

1 YPBPR/YCBCR input

① Remote Sensing Window

CATV antenna input

Notes:1) When there is signal input on the VIDEO and S-VIDEO terminal, SCART1 can not be connected, vice versa.When there is signal input on the S-Video Terminal, SCART2 can not be connected; vice versa when VIDEO or S-VIDEO terminal is connected, selecting channel of SCART1 or SCART2 will play or S-VIDEOcontent of VIDEO or S-VIDEO.VIDEOAND S-VIDEO terminal can not be used at the same time.

0

2) Modes that YPbPr\YCbCr can display include:480P/60Hz,480I/60Hz,576P/50Hz,576I/60Hz 720P/60Hz,1080I/50Hz,1080I/60Hz.

- - 2 RS232C DEBUG input
 - Audio AMP output R
 - Audio AMP output L
 - (23) AC Power Socket
 - (24) Scart connector
 - 19 DVI input

DVI

VGA

#) O

RS-2320

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Y - Pb/Cb - Pr/Cr

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Preparation for Using your new TV

Connecting to A Computer

You can use your TV as a monitor/speakers for your computer by connecting through its 15pin standard RGB interface and PC audio interface. Connect the devices as shown below.



NOTE: modes that PC mode can display are: VGA SVGA XGA SXGA

Connecting to an antenna

To enjoy the terrestrial signal transmitted by your local TV station, you need an indoor or outdoor antenna (not supplied). Perfect picture quality requires a good signal and generally means that an outdoor antenna must be used. The exact type and location of the antenna will depend on your particular area. Consult your local dealer or service personnel for best advice. If you are a subscriber of your local CATV net, the outdoor or indoor antenna is not needed. Connect the equipments as the following figure.



Using the remote control

Preparing the remote control for use

Installing the remote control batteries

1. Open the battery cover on the back of the remote control.



- 2. Install two AAA size(1.5V) batteries. Match the + and signs on the batteries to the signs on the battery compartment.
- 3. Close the battery cover.

Note:

1.Dispose of your batteries in a designated disposal area. Do not throw batteries into fire.

2.Do not mix battery types or combine used batteries with new ones.

3. Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.

4.If you do not intend to use the remote control for a long time, remove the batteries.

5. The effective range of remote control is suggested in the figure.



Using the remote control

Learning about the remote control



Understanding the TV features

- Multimedia TV receiver, Video monitor and PC display, all in one.
- Wider viewing angle, 16:9 display 170° viewing angle at typical value
- Digital display device truthfully reproducing the images, without distortion or blurring, irrespective
 of magnetic or geomagnetic effect.
- 200 channels storage
- Sleep timer
- Teletext with 252 pages memory
- NICAM
- Dual SCART interface
- Multi-language OSD

Basic Operations

Power ON/OFF

- Connect the TV to power outlet and turn on the power switch, the power indicator will be red and then turn blue.Several seconds later, TV picture will display on the screen.
- 2) Press the Power button on the front control or on the remote control to make the TV on standby.Press the power switch to turn off power.
- POWER POWER BUTTON ake INDICATOR (STANDBY)
- 3) If you decide to shut off the TV for a long time, it is recommended that you unplug the power from the outlet.

Signal source selection

Press the number [1-9] button or [CH+/CH-] button to select TV input; press the [VIDEO] button to select TV, scart1 and scart2 input in turn; press the [S-VIDEO] button to select S-VIDEO input ; press the [YPbPr] button to select YPbPrinput; press the [PC] button to select VGA or DVI input.

NOTE: 1). When you press the [YCbCr]button, will display **ABORT KEY** in screen

2). In Video channel Of scart1 or scart2, if you want quit from scart1 or scart2, you can press the [VIDEO] button to select TV, or convert other signal source, for example, to press the [YPbPr] button to select YPbPr input.

Select channels by [CH+/CH-]

You can also use[CH+ / CH-] to select channels. [CH+] indicates channel number increase; [CH-] indicates channel number decrease.

Select channels by numbers

To select a channel : Press the channel numbers in series to select channel directly.

For example, to seclect channel 120, Press the button 1, and 1__ will display on the top right corner of the screen, then press the button 2, 12_ will display, press the button zero, you can enjoy the program of channel 120. NOTE:

- 1) When you changing the channel, the sound state graphics can be displayed below the channel number. There are 3 sound states in this TV. If the sound is mono, the graphics is val, If the sound is stereo, the graphics is like the sound is NICAM dual I/II, the graphics is like two symbol at right of the sound state graphics, Which indicate preset of picture system and sound system.
- 2) When you changing the channel, the sound of current channel will be firstly changed to stereo or NICAM dual I according to the sound state of current channel. You can press the **I/II** button on the remote control to change current sound type.
- 3) When you press the 0 channel . The AV source will be seleced . When you press the VIDEO button ,It will return TV source.

Adjust Volume

When menu is not displayed on the screen, press [VOL+ or VOL-] to adjust the volume.

Use [Recall] button

Press the [Recall] button repeatedly to alternate between the present channel and the previous channel.

Display channel number

Press [Display] button to display the present channel number, but it will also disappear 6 seconds after your pressing.

Select picture modes

You can select the picture mode from among three preset modes and one user-set mode. Press the [P.mode] button repeatedly to select the desired picture mode.



Select sound modes

You can select the sound mode from among three preset modes and one user-set mode. Press the [S.mode] button repeatedly to select the desired sound mode.



Use [Still] button

Press the [Still] button to snapshot the present picture, and press again to return to normal watching.

Use [Zoom] button

Press the [Zoom] button to adjust the screen aspect ratio and zoom ratio

Mute function

Press [Mute] button repeatedly to switch between mute and unmute mode.

Using the CHANNEL menu

PROGRAM

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item CHANNEL.
- 3) Press the [CH+ or CH-] button to select PROGRAM.
- 4) Press the [VOL+ or VOL-] button to select the present channel.

Sound system

You can set sound syetem.

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item CHANNEL
- 3) Press the [CH+ or CH-] button to select sound system.and press the [VOL+] button to enter sound system
- 4) Press the [VOL+] button to switch among AUTO、 D/K、 B/G、 I 、 L/L`

AUTO-SEARCH

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item CHANNEL.
- 3) Press the [CH+ or CH-] button to select AUTO SEARCH.
- 4) Press the [VOL+] button to start auto searching.

MANUAL-SEARCH

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item CHANNEL.
- 3) Press the [CH+ or CH-] button to select MANUAL SEARCH.
- 4) Press the [VOL+ or VOL-] button to start MANUAL searching.

FINE TUNE

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item CHANNEL.
- 3) Press the [CH+ or CH-] button to select FINE TUNE.
- 4) Press the [VOL+ or VOL-] button to start FINE searching.

SKIP

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item CHANNEL.
- 3) Press the [CH+ or CH-] button to select SKIP.
- 4) Press the [VOL+] button to skip or unskip the present channel.
- NOTE: The 'skipped' channels cannot be accessed by [CH+ or CH-], but you can access them by digit (direct select) button.

CHANNEL EDIT

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item CHANNEL.
- 3) Press the [CH+ or CH-] button to select CHANNEL EDIT.
- 4) Press the [VOL+] button to start CHANNEL EDIT.



SOUND SYSYTEM
AUTO SEARCH
MANUAL SEARCH
SKIP

Using the PICTURE menu

Adjust picture settings

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item PICTURE PARAMETERS.
- 3) Press the [CH+ or CH-] button to select the item you want to adjust.
- 4) Press the [VOL+ or VOL-] button to adjust the level.
- 5) The adjusted data is stored automatically in the user mode.
- NOTE : The COLOUR TEMP is only to adjust in the PC mode.



Adjust audio settings

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item AUDIO SETTING.
- 3) Press the [CH+ or CH-] button to select the item you want to adjust.
- 4) Press the [VOL+ or VOL-] button to adjust the level.
- 5) The adjusted data is stored automatically in the user mode.



Using the PIP menu

- 1) Press the MENU button to enter the main menu ,press the [VOL+ or VOL-] to select the PICTURE IN PICTURE.
- Press the [CH+ or CH-] button to select the PIP SIZE, and press the [VOL+] button to enter the PIP SIZE, Press the [CH+ or CH-] button to select the OFF/PIP/PBP.
- Press the [CH+ or CH-] button to select the PIP SOURCE, and press the [VOL+] button to enter the PIP SOURCE, Press the [CH+ or CH-] button to select the pip source.
- 4) Press the [CH+ or CH-] button to select the PIP POSITION or PIP BRIGHTNESS or PIP CONTRAST, press the [VOL+ or VOL-] button to adjust the value.

Note: 1) When main picture is TV/ SCART1/ S-VIDEO. pip picture is YPbPr/VGA/DVI.

2) When main picture is YPbPr/VGA/DVI. pip picture is TV/SCART1/S-VIDEO





PICTURE PARAMETERS

BRIGHTNESS

CONTRAST

Using the MENU LOCK SETTINGS menu

LOCK MENU

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item MENU LOCK SETTINGS.
- 3) Press the [CH+ or CH-] button to select the LOCK MENU.
- 4) Press the [VOL+] button to enable the LOCK MENU.



SET PASSWORD

Password is a four-digit number. The preset password is 1111.

If you want to change the password, you must enter the preset password.

 Press the [CH+ or CH-] button to select SET PASSWORD, and enter the preset password.

E	Enter the menu lock password	d
Í		

CHANGE PASSWORD

- 1) Press the [CH+ or CH-] button to select SET PASSWORD, and press the [VOL+] to enter SET PASSWORD.
- 2) Input the new password , So you succeed in changing the password.



Using the GENERAL SETTINGS menu

OSD POSITION

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item GENERAL SETTINGS
- 3) Press the [CH+ or CH-] button to select OSD POSITION
- 4) Press the [VOL+ or VOL- or CH+ or CH-] button to adjust the OSD POSITION

Colour system

You can set colour syetem.

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item GENERAL SETTINGS
- 3) Press the [CH+ or CH-] button to select colour system .and press the [VOL+] button to enter colour system
- 4) Press the [VOL+] button to switch among AUTO, PAL ,SECAM.

OSD LANGUAGE

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item GENERAL SETTINGS.
- 3) Press the [CH+ or CH-] button to select OSD LANGUAGE,and press the [VOL+]]button to enter the OSD LANGUAGE
- 4) Press the [VOL+] button to select the language what you want use.

BLANK

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item GENERAL SETTINGS.
- 3) Press the [CH+ or CH-] button to select BLANK
- 4) Press the [VOL+] button to enable the BLANK
- NOTE: When you enable the blank, the screen will turn into blue screen saver mode in case of valid input signal, The screen will turn into auto screen saver mode several seconds later, and into stand-by mode 15 minutes later.

SLEEP TIMER

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item GENERAL SETTINGS
- 3) Press the [CH+ or CH-] button to select SLEEP TIMER
- 4) Press the [VOL+-] button to adjust the SLEEP TIMER

TRANSPARENCY

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item GENERAL SETTINGS
- 3) Press the [CH+ or CH-] button to select TRANSPARENCY
- 4) Press the [VOL+ or VOL-] button to adjust the volume of transparency





Using the GENERAL SETTINGS menu

DEINTERLACER

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item GENERAL SETTINGS
- 3) Press the [CH+ or CH-] button to select DEINTERLACER
- 4) Press the [VOL+] button to enter the DEINTERLACER
- 5) Press the [CH+ or CH-] button to select the feature

Using the PC menu

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item PC PARAMETERS.
- 3) Press the [CH+ or CH-] button to select the item you want to adjust.
- NOTE: 1)The menuis useful only on VGA/DVI and HDTV mode. It is useless in others mode.
 - 2) The button [AUTO] is used to adjust position of picture automatic and it is effective only on VGA/DVImode. The button [AUTO COLOUR] is used to adjust quality of picture manually when signal is not good sometimes. The button [POSITION] is used to adjust the position of picture.

CLOCK and PHASE can adjust quality of picture minutely, and they are used less.

Teletext Operations

SELECTING TELETEXT MODE

Select the channel that is broadcasting the desired Teletext program. Press [TEXT] button and alternate between Teletext mode and normal mode. Note: All the operations below should be under the Teletext mode except TIME operation.

PAGE SELECTION

You can directly input your desired page number by pressing [0~9] buttons. You can sequentially read pages by pressing [\land or \lor] button.

HOLD

Some Teletext information is contained on more than one page, the pages automatically changing after a given reading time.

Press [S-Video] button to stop the page changing.

Press [S-Video] button again to allow the page to change.



Teletext Operations

REVEAL

Some Teletext pages contain quiz or questions with hidden answers. Press the $\begin{bmatrix} 00/7\\10 \end{bmatrix}$ button to see the answers. Press the $\begin{bmatrix} 00/7\\10 \end{bmatrix}$ button again to hide the answers.

CANCEL

When a page is selected in Teletext mode it may take some time before it becomes available. Press the [YPbPr] button to switch to the TV mode. When the required page is found, the page number will appear at the top of the TV picture, press the [YPbPr] button to return to the selected Teletext page. Note: You can change TV program while in this mode.

SUB CODE

Some Teletext pages contain sub page that require you to input the sub code. Press [P.mode] button until *** | **** is displayed, and enter last four-digit sub code for the sub page you need.

MIX

You can mix Teletext with TV pictures, which means transparent teletext. Press [Video] to mix, and press [Video] again to cancel the mixed effect.

ZOOM (Top/Bottom/Full)

Using ZOOM to enable easier reading (larger display). Press the [PC] button to display the TOP HALF of the page. Press again to display the BOTTOM HALF of the page. Press again to return to a FULL PAGE display. Note: Changing pages reverts to a FULL PAGE display.

TIME

Time information is contained in the teletext broadcast. In Teletext mode, press [Time] to display the time.

FASTTEXT

The RED, GREEN, YELLOW & CYAN buttons are used for quick access to colour coded pages transmitted by FAST TEXT broadcast.

INDEX

Teletext index page guides you quickly to your desired page. Press [S.mode] button to enter index page.

Appendix

The SCART interface



Also known as Peritel, this standard provides a cheap multi-signal connector to domestic TVs and other video equipment.

Arrangement 1 is the original and allows for composite video input/output, S-Video inputs, RGB inputs and audio input/output.

Arrangement 2 allows for composite video input/output and audio input/output.

Scart Connector Pinout Details

SCART arrangement 1			
Pin	Signal	Signal level	Impedance
1	Audio output B (right)	0.5V rms	<1kohm
2	Audio input B (right)	0.5V rms	>10kohm
3	Audio output A (left)	0.5V rms	<1kohm
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5V rms	>10kohm
7	Blue input	0.7V	75ohms
8	Function select (AV control)	High(9.512V)-AVmode Low (02V)-TV mode	>10kohm
9	Ground (green)	-	-
10	Comms data 2		
11	Green input	0.7V	75ohms
12	Comms data 1		
13	Ground (red)	-	-
14	Ground (blanking)	-	-
15	Red input/Chrominance input	0.7V/0.3V	75ohms
16	RGB switching control	High (1-3V) - RGB Low (0-0.4V)- Composite	75ohms
17	Ground (video input & output)	-	-
18	Ground(RGB Switching Control)	-	-
19	Video output (composite)	1V including sync	75ohms
20	Video input (composite) /Luminance input	1V including sync	75ohms
21	Common ground (shield)	-	-

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Appendix

	SCA	RT arrangement 2	
Pin	Signal	Signal level	Impedance
1	Audio output B (right)	0.5V rms	<1kohm
2	Audio input B (right)	0.5V rms	>10kohm
3	Audio output A (left)	0.5V rms	<1kohm
4	Ground (audio)	-	-
5	Ground	-	-
6	Audio input A (left)	0.5V rms	>10kohm
7	-	-	-
8	Function select (AV control)	High(9.5-12V)-AVmode Low (0-2V)-TV mode	>10kohm
9	Ground	-	-
10	-	-	-
11	-	-	-
12	-	-	-
13	Ground	-	-
14	Ground (blanking)	-	-
15	-	-	-
16	-	-	-
17	Ground (video input & output)	-	-
18	-	-	-
19	Video output (composite)	1V including sync	75ohms
20	Video input (composite)	1V including sync	75ohms
21	Common ground (shield)	-	-

WARNING: Do NOT attempt to work on ANY equipment unless you KNOW what you are doing. When scart1 or scart2 is pluged in, do not connect S-video and video from TV back

Cleaning and care

WARNING: Do not try to remove the cabinet back. Refer servicing to qualified service technicians.

To clean the TV screen:

- 1) Unplug the TV to avoid possible shock hazard.
- 2) Use a clean cellulose sponge or chamois cloth dampened with a solution of mild detergent and warm water to clean the TV screen and trim. Do not use too much water as water spilled into the cabinet can cause damage to the TV.
- 3) Wipe off any excess moisture with a clean dry cloth.
- 4) Polish the cabinet with a quality furniture polish to maintain the finish and appearance of the cabinet.
- **Caution**: Never use strong solvents such as thinner, benzene, or other chemicals on or near the cabinet. These chemicals can damage the finish of the cabinet.

Appendix

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

Symptoms	Possible Solutions
TV will not turn on	 Make sure the power cord is plugged in, then press [Power]. The remote control batteries may be dead. Replace the batteries.
No picture, no sound	 Check if you have set the off timer. Check the antenna/cable connections. Press [Display] to see if you have select the right signal source.
No sound, picture OK	 The sound may be muted. Press [>] on the remote control or. The station may have broadcast difficulties. Try another channel. Check the speakers cable connections.
Poor sound, picture OK	 The station may have broadcast difficulties. Try another channel Check the speakers cable connections.
Poor picture, sound OK	 Check the antenna connections. The station may have broadcast difficulties. Try another channel. Adjust the picture from the menu.
Unable to select a certain channel	• The channel may be skipped. See SKIP on page 10.
Poor colour or no colour	 The station may have broadcast difficulties. Try another channel. Adjust the HUE and COLOUR in the menu.
The remote control does not operate	 There may be an obstruction between the remote control and the remote control sensor. The batteries may be installed with a wrong polarity. The remote control batteries may be dead. Replace the batteries. Check if you have entered Teletext mode. Press [Text] to quit.
Disorder display at power on	• This may be caused by too short interval between power off and on. Unplug the power and restart.

Caution: If there is NTSC signal. The display is abnormal or black. You may press the MENU. Then operation is normal.

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Specifications

	LCD3201EU
LCD panel	32.0 inches TFT LCD
Television system	Multi- standard(PAL,SECAM)
Channel coverage	VHF-L: E2-S8 VHF-H: S9-S37 UHF: S38-E69
Resolution	1280X768
Contrast	500:1
Brightness	450cd/m ²
Viewing angles	170°(H)/170°(V)
Power source	AC100V240V, 50/60Hz
Power consumption	145W
Audio output	5W+5W
Connection interface	RF input: Cable/ antenna RF ×1 VIDEO input: S-VIDEO ×1 YPBPR ×1 GRAPHIC input: Analog RGB 15pin(VGA) ×1 Digital RGB(DVI-D) X1 AUDIO input: SCART 1 audio and SCART2 audio AUDIO output: SCART 1 audio and SCART2 audio Mini-jack for stereo (3.5 ↔)X1 SCART1 SCART2 OTHER: RS232C X 1 (for software updateing)
Dimensions	39inchesX23inchesX8.7inches
Weight	24Kg
Supplied accessories	Remote control, AC Power cord, Batteries

Design and specifications are subject to change without notice.