

ATTACHMENT E.

- USER'S MANUAL -

Report No.: HCT-F07-0711 1/1

Flat Panel Display (LCD & PDP)

OWNER'S INSTRUCTION

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

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CAUTION

RISK OF ELECTRIC SHOCK



CALITIONS

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



This symbol 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.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

- TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD.
- DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. SHOCK HAZARD DO NOT OPEN.

CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAUTION

The stand intended for use only with this TV. Use with other apparatus is capable of resulting in instability causing possible injury.

WARNING

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- This is Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
- To reduce the risk of fire and electric shock, do not expose this product to rain or moisture.

FCC NOTICE

This device has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in home environment as well as in a commercial, industrial or business environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee 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.

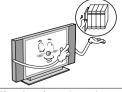
Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Connecting of peripherals requires the use of grounded shielded signal cables.

Always be careful when using your the TV. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.



Read all safety and operating instructions before operating your the TV.



Keep the safety and operating instructions for future reference.



Heed all warnings on the TV and in the operating instructions.



Important Safety Instructions

Always be careful when using your the TV. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read these instructions.
- 2. Keep these instructions.
- Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a damp cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that aproduce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use the attachments/accessories specified by the manufacturer.
- 12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. When installing the LCD TV, do not block the appliance coupler with any structure. User can easily have access to the coupler to disconnect it from AC main power.

In case of the following cases, unplug the unit from the wall outlet and contact qualified service center.

- when power supply cord or plug is damaged.
- If liquid has been spilled on the unit or if alien objects have fallen into the unit.
- If the TV has been exposed to rain or water.
- If the TV does not operate normally by following the operating instructions.
- If the TV dropped or the cabinet has been damaged.
- When the TV exhibits a distinct change in performance.

Setting <u>A</u> CAUTION



Follow all operating and use instructions.



Do not use the TV where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.



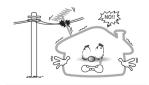
Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.

Ground outdoor antennas. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



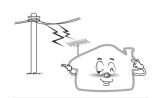
Bend antenna cable between inside and outside building to prevent rain from flowing in.

- This may cause water damaged inside the TV and could give an electric shock.



Do not place an outside antenna in the vicinity of overhead power lines, or other electric light or power circuits.

- This may cause an electric shock.



There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls.

- This may cause an electric shock.



Setting WARNING



When installing the TV on a table, be careful not to place it too close to the edge of the table.

- This may cause the TV to fall, causing serious injury to a child or adult, and serious damage to the TV.

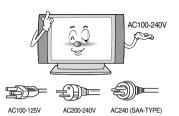


Provide ventilation for the TV. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the TV on a bed, sofa, rug or other similar surface. Do not place it near a radiator or heat register. If you place the TV on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.

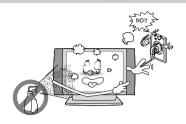


This TV is designed to be mounted horizontally (wide viewing). Any inquiry regarding its vertical position should be forwarded to the manufacture directly.

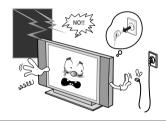
Power Aution



Use only the accessory cord designed for this product to prevent shock. The power supply voltage rating of this product is AC100-240V, the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC. When it is used by other power supply voltage, power cable must be changed. Consult your product dealer.



Unplug the TV from the wall outlet before cleaning.
Use a damp cloth; do not use liquid or aerosol cleaners.



Unplug the TV from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.

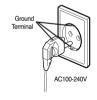


Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

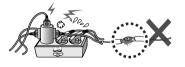


Do not touch the plug with wet hand.

- It can make an electric shock.



Use only a grounded or polarized outlet. For your safety, this TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.



Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Operation A CAUTION



Upon completion of any service or repairs to this the TV, ask the service technician to perform safety checks to determine that the TV is in a safe operating condition.



Do not place anything containing liquid on top of the TV.

- This may cause a fire or could give an electric shock.



Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.



In case of smoke or strange smell from the TV, switch it off, unplug it from the wall outlet and contact your dealer or service center.

- This may cause a fire or could give an electric shock.



Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the TV.

Operation



WARNING



When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.



If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to normal.



Do not let children hang on or ride on the TV.





Do not use new battery with old one.

 This can lead a fire or electric shock caused by leakage liquid from abused batteries.



Put the batteries in right direction (+/-).

- Otherwise, it can make a fire, injury and pollution caused by bursting of batteries.



Only use the specified batteries.

 This make cause damaged the TV or could give an electric shock.



More than two people are necessary to move or take off the package due to the product's weightiness.

- Otherwise, it can cause personal injury.



Keep the batteries out of reach of children when exchanged.

 Seek urgent medical advice if child swallows a battery.



When moving the TV assembled with speakers do not carry holding the speakers.

 This may cause the TV to fall, causing serious injury to a child or adult, and serious damage to the TV.



The distance between eyes and the screen should be about 5~7 times as long as diagonal length of the screen.

- If not, eyes will strain.



Viewing the Control Panel

OSD Button Position

Front Panel

•



- Input Source Select
- **Q** Up
- (See the box below)

 3 Down
- (See the box below)

 4 Stand By
- 6 Remote Sensor
- Status/Power Indicator LED



- Stand ByRemote Sensor
- Source/EXIT
- Menu/SET
- **6** VOL-
- 6 VOL+
- (1) CH+

INPUT FVOLICH TO THE PART OF T



- 1 TV/TV VOL-
- O VOL+
- O CH-
- 6 CH+
- Stand By

OSD Button Function

INPUT SELECT

Select the signal source from multiple input sources such as TV, ATV, DTV, VIDEO, VIDEO2, S-VIDEO/AV, COMPONENT1, COMPONENT2, PC, DVI and HDMI.

O VOL/CH ▲/▼ OR VOL/CH -/+

To change the **CHANNEL**, press \blacktriangledown button first and change the channel with \blacktriangle , \blacktriangledown buttons. To change the **VOLUME**, press \blacktriangle button first and change the volume with \blacktriangle , \blacktriangledown buttons. To change the **CHANNEL** and **VOLUME**.

Turn the TV on and off.

Menu

Call the OSD Menu.

Accessories









Remote Control Handset

Power Cord

RF Cable (Optional)

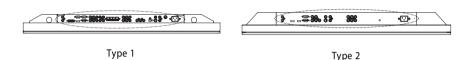
Alkaline Batteries

Owner's Manual

Viewing the Connecting Panel



Types of inputoutput ports.



1. Type 1 DVI & D-Sub (PC) Sound VIDE 01 AV/S-VIDEO Sound 0 2 DVI (HDCP) VIDEO OUTPUT2 TV Antenna 6 HDMI VIDE 02 AC Power 0 A RS-232C(TV) SPDIF (Optical) Speakers RS-232(DTV) D-Sub (PC) Ø Line Out

Type 1 is all PDP models and some LCD models.

B

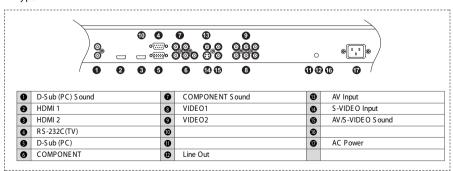
AV Input

S-VIDEO Input

2. Type 2

COMPONENT1, 2

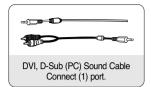
COMPONENT Sound1, 2

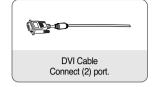


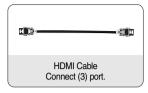
Type 2 is applied for only some LCD models.

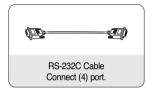


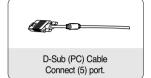
Viewing the Connecting Panel

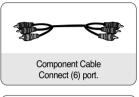


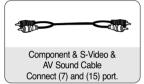


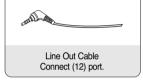


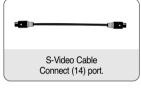


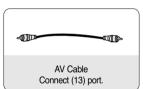


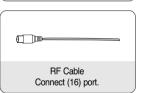












AC Power Cord Connect (17) port.	

Connectors				
RCA Pin Jack				
RCA Pin Jack				
RCA Pin Jack				
Mini Din 4Pin				
RCA Pin Jack				
Mini D-Sub 15Pin				
HDMI Cable				
DVI-D 24Pin				

Audio input	RCA PIN Jack
Video Input	RCA Pin Jack
Video Output	RCA Pin Jack
S-VIDEO Input	Mini Din 4Pin
Component Video Input	RCA Pin Jack
Analog RGB Input	Mini D-Sub 15Pin
HDMI Input	HDMI Cable
Digital Video Input	DVI-D 24Pin
<u> </u>	

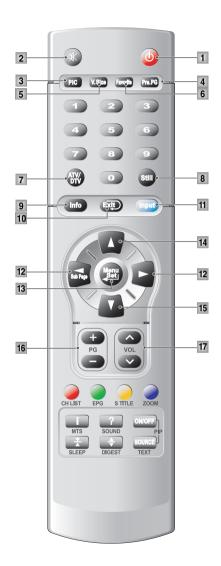
3-Wire (Non-standard) PC T۷ **RXD** 2 - 3 TXD TXD 3 - 2 **RXD** 5 - 5 **GND GND** DTR 4 DTR 6 DSR 6 DSR 7 7 **RTS RTS** CTS **CTS** 8

RS-232C Configurations

· Cables connecting the PC vary according to the type of machine, so consult your product dealer.



Button Description



1 POWFR

Turn the PDP on and off.

2 MUTE

Temporarily cut the sound and restore it.

3 PICTURE

There are 4 picture modes. Standard → Vivid → Mild → User

4 Pre.PG

Turn to the previous programme or exit OSD.

5 V.Size

Choose the Aspect Ratio. $16:9 \rightarrow 4:3 \rightarrow Panorama \rightarrow Zoom1 \rightarrow Zoom2$

6 Favorite (Favourite)

Tune to your next favorite programme.

7 ATV/DTV

Switch the Input Source Analogue TV and Digital TV. (Analogue TV ↔ Digital TV)

8 STILL

Temporarily freeze the screen and restore it.

Display the current information.

Return to the previous OSD menu.

11 INPUT

Display the input source list.

12 Sub PG

It is for channel change as analog mode in sub-screen on PIP condition.

Sub-PG change: PG (+/-) after pressing Sub PG Button.

MAIN-PG change after Sub-PG change: PG (+/-) after pressing Exit Button.

13 Menu/Set

Display the main OSD menu. Activate your choice in the OSD menu.

- 14 Move +
- 15 Move –
- 16 PG + / PG -

Move to the upper or lower channel.

17 VOL ^ / VOL V

Increase or decrease the volume level.



1 CH LIST (HDTV)

Set & display ALL DTV channel list as the default channel list

2 EPG (Electronic Program Guide) (HDTV)

Activate Electronic Program Guide information broadcast by the DTV networks.

3 SubTitle (HDTV)

Enable / disable program subtitles.

4 ZOOM (HDTV)

Zoom out 4:3 pillar box black bars.

5 MTS

Choose the MTS (Stereo) mode.
Each time it is pressed, different mode is selected.
Mono → Stereo → Language A → Language B
→ Language AB

· You can select only available modes depending on the source.

6 SOUND

Choose the sound equalizer settings.
Standard → Movie → Music → News → User

7 PIP (ON/OFF)

Activate PIP function and change the PIP window size and PIP mode.

Small → Large → Twin (Half) → OFF

8 TEXT/SOURCE

Teletext on/off.
TEXT→ MIX → Twin → Normal (TTX off).
Change the PIP window source (PIP Mode).

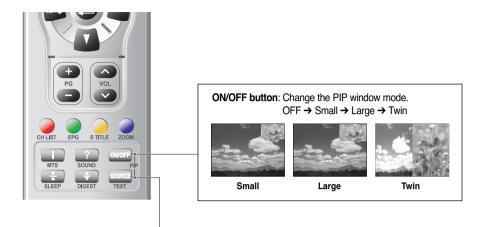
9 DIGEST

Display 16 TV programs at the same time.

10 SLEEP

Set the preset time interval for automatic turn - off. OFF (Not work) \rightarrow 10 min. \rightarrow 20 \rightarrow 30 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow 150 \rightarrow 180





SOURCE button: Change the source of the PIP window. The available sources are shown as below.

1. Type1

PIP Main	ANALOGUE TV	DIGITAL TV	VIDEO1	VIDEO2	S-VIDEO/AV	COMPONENT1	COMPONENT2	PC	DVI	HDMI
ANALOGUE TV	-	V	V	V	V	V	V	V	V	v
DIGITAL TV	V	-	V	V	V	V	_	V	V	v
VIDEO1	V	V	-	V	V	V	V	V	V	V
VIDEO2	V	V	V	-	V	V	V	V	V	v
S-VIDEO/AV	V	V	V	V	_	V	V	V	V	v
COMPONENT1	V	V	V	V	V	_	V	V	V	V
COMPONENT2	V	-	V	V	V	V	_	V	V	V
PC	V	V	_	-	V	V	V	-	-	-
DVI	V	V	-	-	V	V	V	-	-	-
HDMI	V	V	-	-	V	V	V	-	-	-

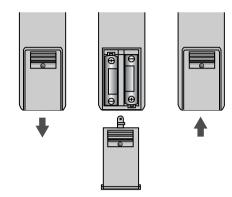
2. Type2

PIP Wain AN	IALOGUE TV	DIGITALTV	VIDEO1	VIDEO2	S-VIDEO/AV	COMPONENT	PC	HDMI1	HDMI2
ANALOGUE TV	_	_	_	_	_	_	_	V	V
DIGITAL TV	-	_	_	_	_	_	_	V	V
VIDEO1	_	_	_	_	_	_	_	V	V
VIDEO2	-	_	_	_	_	_	-	V	V
S-VIDEO/AV	-	_	_	_	-	_	-	V	V
COMPONENT	-	_	_	_	_	_	-	V	V
PC	-	_	_	_	_	_	-	_	-
HDMI1	V	V	V	V	V	V	-	_	-
HDMI2	V	V	V	V	V	V	-	_	-

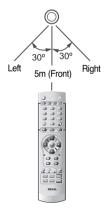


Loading the Batteries

- 1 Press on the cover and slide in the direction of the arrow.
- 2 Load two AAA batteries, taking care that the + and - ends face the correct direction.
- 3 Close the cover until it clicks.



Reception Range of Remote Control



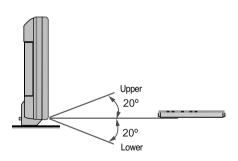




Table Stand Installation (Optional)



< The TV can be installed on the desk as shown above. >

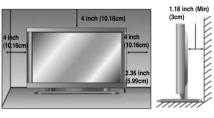
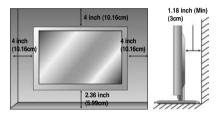


 Table stand mount minimum allowable clearances for adequate ventilation.

Wall Mount Installation (Optional)

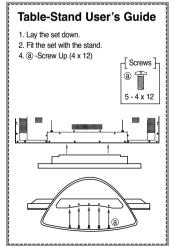


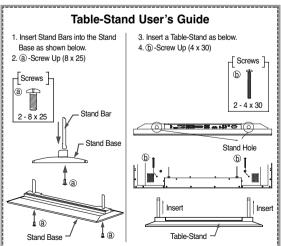
< The TV can be installed on the wall as the picture above. >



 Install this TV a only in a location where adequate ventilation is available.

Installation

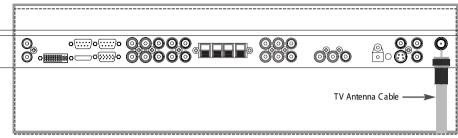




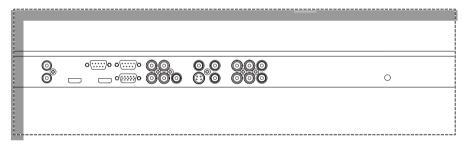


Connecting the TV Cable

1. Type 1



2. Type 2



Connection the TV Cable

- Connect the TV Antenna cable to the TV input jack. Press INPUT button on the remote control and select TV on OSD.
- 2 Use PG+, PG- button or numeric button to change TV programme for your programme selection.
- 3 Press Pre. PG button on the remote control to tune the previous programme.
- 4 Also, you can tune to cable service provided programmes using the cable box. For further information regarding cable TV service, contact cable TV service provider(s).

Connecting the VCR

Watching VCR

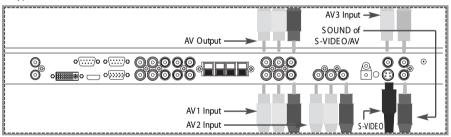
- 1 Press INPUT button on the remote control and select video sources.
- 2 Insert a video tape into the VCR and press the PLAY button on the VCR.



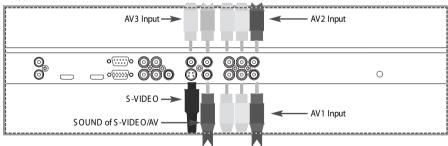
To avoid picture noise (interference), leave an adequate distance (over 3m) between the VCR and TV. When connecting the TV with external equipment, match the colour of connecting ports (e.g. Video -Yellow, Audio(L) - White, Audio(R) - Red).

If you have a mono VCR, connect the audio cable from the VCR to the AUDIO (L/Mono) input of the TV. If you connect an S-VHS VCR to the S-VIDEO input socket, you can get a better picture quality than normal video input (AV).

1. Type 1



2. Type 2



Connecting the VCR

With S-VIDEO

Connect a S-Video cable to the S-Video jacks of the VCR and the TV.

Connect L (White), R (Red) sound cable (Composite) to the sound jacks of the VCR and the TV.

With AV Input

Connect a composite cable to the AV video jacks of the VCR and the TV.

Connect L (White), R (Red) sound cable (Composite) to the sound jacks of the VCR and the TV.

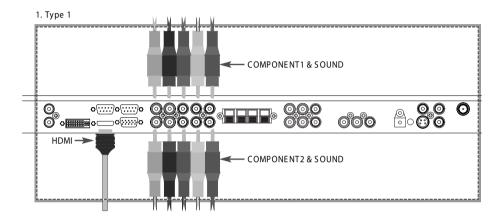


Connecting the DVD

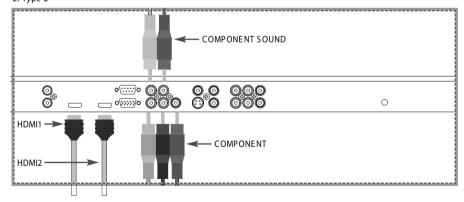
Connect the three separate component video cables to the DVD player's Y, Pb and Pr jacks and to the component jacks on the TV.

Connect the audio cable to the DVD player's audio L (White) and R (Red) jacks and to the L and R audio jacks beside the component jacks on the TV.

Connect the HDMI cables to the DVD players and to the HDMI cables on the TV.



2. Type 2



Connecting the DVD



How to Use

- Turn on the DVD player.
- Press INPUT button on the remote control of the TV and select HDMI, COMPONENT1 or COMPONENT2.

Component Input Ports

You can get better picture quality if you connect DVD player with component input sockets as below.

Supported Signals							
	COMPONENT1	COMPONENT2	PC	DVI	HDMI		
480i/60Hz	V	V	-	-	_		
480p/60Hz	V	V	V	V	V		
576i/50Hz	V	V	_	-	-		
576p/50Hz	V	V	V	V	V		
720p/50Hz	V	V	V	V	V		
720p/60Hz	V	V	V	V	V		
1080i/50Hz	V	V	V	V	V		
1080i/60Hz	V	V	V	V	V		

Component ports of the TV	Y	Рв	PR
Video output ports of DVD player	Y Y Y	Pb B-Y Cb P _B	Pr R-Y Cr P _R



Normal DVD source is based on 480i, which should be through normal Y Pb Pr of component signal.
 It may occur screen noise, blank screen in case of using HDMI Cable unauthorized by ATC.
 It may easily occur as specially HD signal (720p or 1080i) input. Suggest HDMI Cable only authorized by ATC.

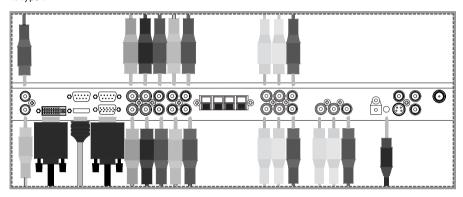


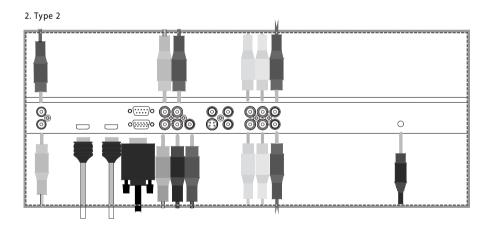
Connecting the Set Top Box

How to Connect

Connect set top box video inputs to AV, COMPONENT, HDMI, PC or DVI jacks on the TV. Audio inputs to Audio sockets beside the L (White) and R (Red) audio jacks which you connect video inputs.

1. Type 1





Connecting the Set Top Box



How to Use

- 1 Turn on the set top box.
- Press INPUT button on the remote control of the TV and select COMPONENT1, COMPONENT2, HDMI. PC or DVI.

Supported Signals							
	COMPONENT1	COMPONENT2	PC	DVI	HDMI		
480i/60Hz	V	V	-	-	_		
480p/60Hz	V	V	V	V	V		
576i/50Hz	V	V	-	-	-		
576p/50Hz	V	V	V	V	V		
720p/50Hz	V	V	V	V	V		
720p/60Hz	V	V	V	V	V		
1080i/50Hz	V	V	V	V	V		
1080i/60Hz	V	V	V	V	V		

How to Connect

With AV

Connect a AV cable to the AV jacks of the STB (set top box) and the TV.

With COMPONENT

Connect a three separate component cables to the component jacks of the STB and the TV. Connect L (White) and R (Red) sound cables (Composite) to the sound jacks of the STB and the TV.

With HDMI

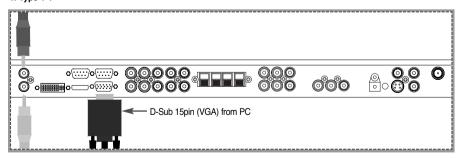
Connect a HDMI cable to the HDMI jacks of the STB and the TV.

With RGB or DVI

Connect a D-Sub or DVI cable to the AV video jacks of the STB and the TV.

Connect L (White) and R (Red) sound cables (Composite) to the sound jacks of the STB and the TV.

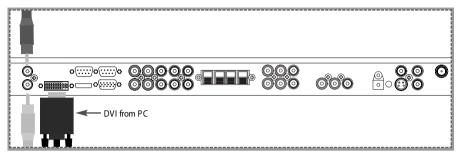
1. Type 1-1



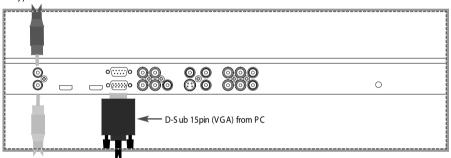


Connecting the PC (D-Sub & DVI)

1. Type 1-1



2. Type 2



- Connecting a PC to the TV Connect a PC (15pin) video cable between the video output port on the PC and the PC port on the TV.
- Pin Configuration15pin signal cable (based on protruded pin).
- To watch the PC screen
- 1 Turn on the TV and press INPUT button to select the PC mode.
- 2 Turn on the PC and check for the PC requirement.
- Adjust the PC screen in Position menu. (See 38 page.)



DVI Port support DVI-D. (*DVI-D receive only digital signal)



Pin No.	Description
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	S ync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal sync.
14	Vertical sync.
15	Clock (DDC)

Displayable TV Specification



Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720 x 400	31.469 37.927	70.08 85.03
640 x 480	31.469 35.000 37.861 37.500 43.269 45.913 53.011	59.94 66.66 72.80 75.00 85.00 90.03 100.04
800 x 600	35.156 37.879 48.077 46.875 53.674 56.000 64.016	56.25 60.31 72.18 75.00 85.06 90.00 100.00
832 x 624	49.725	74.55
1024 x 768	48.363 56.476 60.023 68.677	60.00 70.06 75.029 84.997
1152 x 864	67.50	75.00
1280 x 1024	64.00	60.00



- · Synchronization input form: separate
- The TV recognizes 640 x 480 @60Hz signal as 480p DTV signal.
 So the signal is expanded, please try other signals like 640 x 480 @75Hz.
- The TV operates abnormally if a non-standard video format is selected.
- Depending on the manufacturer, your PC screen might appear differently (and depending on your particular version of Windows).
 - Check your PC instruction book for information about connecting your PC to a the TV.
- The TV may operate abnormally if a non-standard video signal inputs.
- "Not Support" message box will appear when an over-spec video signal is inputted.
 Change the video settings of PC when the message is displayed.

Turning the TV ON/OFF

Press the Power button on the remote control. The TV will turn on and you will be ready to use its features. You can also use the Power button on the front panel.

Select Source

Press INPUT button on the remote control. Then you can see the source list menu shown as below.

1. Type 1



Source list menu

2. Type 2



Source list menu

S elect the source to watch with 0/0 button on the remote control and press the Menu/S et button.

11

TV Programme Selection

- Connect the signal source (TV antenna) to TV input. Press INPUT button on the remote control and select TV on the source list.
- 2 Use PG+/PG- button or numeric button to change TV programme you want.
- 3 Press Pre. PG button on the remote control to watch the previous programme.
- 4 Also, you can tune the cable service, provided programmes while using the cable box. For further information regarding cable TV service, contact your TV service provider(s).

Volume Control

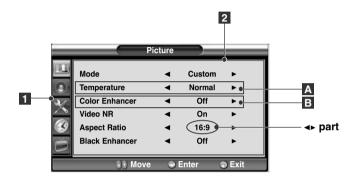
Use VOL ^ NOL button on the remote control to adjust the volume level.

Press MUTE button on the remote control when you need to cut the sound temporarily.

OSD Menu Structure

- OSD (On Screen Display) allows users to control or adjust various features and settings in accordance with his/her preferences.
- Press the Menu/Set button on the remote control to see the main OSD menu.

Example of OSD Menu



1 Main Menu

Press Menu/Set button on the remote control to enter the main OSD menu. First, select main menu item you need with \(\subseteq / \subseteq \) button.

To select a main menu items, just press Menu/Set button on the remote control.

2 Sub Menu

Fach menu item has its own sub menu items to set.

3 Sub Menu Items

- A: If there is no ◀► part, the item has an sub menu.
 You can enter the sub menu and adjust an item you need.
 - Select sub-menu item with ____/ ___ button on the remote control and press Menu/Set button to enter the sub menu.
- B: If there is a ◀► part, you can set the item by selecting ◀►. Ex) ◀ ON ► or ◀ OFF ►.

 Press Menu/Set button to set a ◀► part, and adjust it with 【 / D button.



DTV Preferred Audio Type (I-II)

You can select desired audio signal from broadcaster.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Channel main menu.
- 3 Press Menu/Set button to enter the sub menu.
- Select the Digital TV Setup and press Menu/Set button to enter the sub menu.
- 5 Select **Preferred Audio Type**.
 Then the cursor moves into the ... / ... parts.
- 6 Select Dolby Digital or MPEG with 4 button and press Exit button.







DTV Channel Favourites

You can assign any scanned channel to TV Favourite List / Radio Favourite List.

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Channel main menu.
- 3 Press Menu/Set button to enter the picture menu.
- 4 Select Digital TV Setup and press Menu/Set button to enter the sub menu.
- 5 Select **Channel Favourites** with button and press Menu/Set button.
- 6 If you want add or exclude individual channel, press Menu/Set button to select to individual channel list.
- 7 In this sub menu, press INFO button for display selected channel signal status. For quit signal status, press INFO button again. It is useful for duplicate channel presence.
- 8 Press Exit button to return.







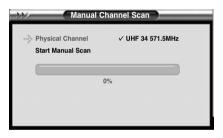


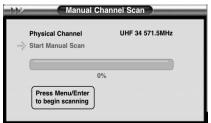
Storing Channels Manually (DTV)

- 1 Press Menu/Set button on the remote control to display the main OSD menu.
- 2 Select the Channel main menu with \(\subseteq / \subseteq \) button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select the Digital TV Setup and press Menu/Set button to enter the sub menu.
- 5 Select Manual Channel Scan with / button and press Menu/Set button
- 6 Select Physical Channel and press Menu/Set button to display physical channel table.
- 7 Select physical channel number with button and press Menu/Set button.
- 8 Press Exit button to return.
- 9 Select Start Manual Scan with \(\bigcirc / \bigcirc \) button and Press Menu/Set button. Also the progress bar will display scanning progress.







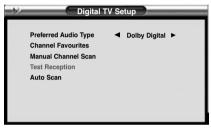




DTV Test Reception

- 1 Press Menu/Set button on the remote control to display the main OSD menu.
- 2 Select the Channel main menu with button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select the Digital TV Setup and press Menu/Set button to enter the sub menu.
- 5 Select Test Reception with button and press Menu/Set button. For change physical channel, Press OK or RIGHT again to display physical channel list.
- 6 Press () button to select the physical channel you want to check up the signal strength.
- 7 Press Menu/Set button to change physical channel.
- 8 Press Exit button to return. You can check up and review the signal strength, quality and signal related information.









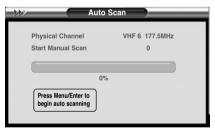
Storting Channels Automatically (DTV)

From here, the TV will perform automatic scan the whole channel frequency for available digital channels.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Channel main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select the Digital TV Setup and press Menu/Set button to enter the sub menu.
- 5 Select Auto Scan with buttons and press Menu/Set button on the remote control. Then there will appear the Auto Scan sub menu.
- 6 Press Menu/Set to Start Automatic Scan procedure.









Storing Channels Automatically (ATV)

You can now search for and store the TV channels in two different ways: using Auto Scan or Manual Scan.

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Channel main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select the Analogue TV Setup and press Menu/Set button to enter the sub menu.
- 6 Select your country. Then the tuning bar will appear. The scanning will start.

The supported countries are shown as below.

Australia Spain
Belgium Switzerland
Czech Rep. United Kingdom
Denmark Others

Finland France Germany Hungary Ireland

Italy Netherlands

Norway Poland

Russia

Auto Scan for other countries, please refer to the next page.











You can select Ananlogue TV Setup in Analogue Reception menu enabled.



Auto Scan (Other Countries)

Asia

Nation	Selection	Nation	Selection
Malaysia	Others	Israel	Others
Pakistan	Others	Kuwait	Others
Singapore	Others	Arab Emirates	Others
Iran	Others	China	Czech Rep.
Saudi Arabia	Others		

Europe

Nation	Selection	Nation	Selection
Albania	Others	Estonian	Hungary
Andorra	Others	Georgia	Hungary
Croatia	Others	Latvia	Hungary
Iceland	Others	Lithuania	Hungary
Macedonia	Others	Russian Fed	Russia
Portugal	Spain	Ukraine	Hungary
Armenian	Hungary	Rumania	Poland
Azerbaijan	Hungary	Slovakian	Others
Belarus	Hungary	Luxembourg	Netherlands
Bulgaria	Hungary	Monaco	France

Setting the Channel



Storing Channels Manually (ATV)

- 1 Press Menu/Set button on the remote control to display the main OSD menu.
- 2 Select the Channel main menu with button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select the Analogue TV Setup and press Menu/Set button to enter the sub menu.
- 5 Select Manual Scan with button and press Menu/Set button
- 6 Then you can see the tuning bar. TV will scan from channels to the current channel.









Only scanned programmes can be stored as Favorite programmes.



ATV Fine Tuning the Channel Reception

The fine tuning function lets you manually adjust the TV's tuner if you have difficulty tuning analog channels.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Channel main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select the Analogue TV Setup and press Menu/Set button to enter the sub menu.
- 5 Select **Fine Tune** with button and press Menu/Set button. Then you can see the adjust bar.
- 6 Adjust the Fine Tune with button.







Setting the Channel



ATV Editing the Channels

Edit Favorite Programme list

You can store of your favorite channels for each available input source (such as TV or CATV). Then, when you press the Favorite button on the remote control, the TV display only the favorite channels you previously stored, allowing you to quickly and easily find frequently wanted channels.

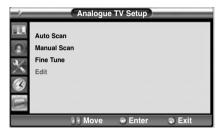
- Press Menu/Set button to display the main
 OSD menu.
- 2 Select the Channel main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Edit** and press the Menu/Set button. Then you can see the favorite programme list.
- 5 You can select a programme with / button on the remote control.

To Edit the List

You can INSERT, ERASE, SKIP and REPLACE the programmes in the list. Refer to the picture of the remote control below.

To Edit the Programme in the List

If you want to edit a programme, press Menu/Set button. Then you can select a field with 4 button. Press Menu/Set button on the field to edit. Adjust the field with 4 button. To return, press Exit button.









RED (ERASE)

Erase the selected programme from the list.

GREEN(SKIP)

Make the selected programme will be skipped.

YELLOW(INSERT)

Insert new list item.

BLUE(REPLACE)

Replace the selected programme with the current programmes that you're watching.



Only scanned channels can be set as favorite channels.



Setting the Channel

Digest Function

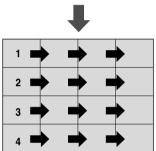
With the Digest function, you can select a TV programme watching 16 programme at once. This function works in TV mode only.

- 1 Press the DIGEST button on the remote control.
- By pressing the channel number. The selected channel becomes main window.
- 3 You can make off the Digest Function by pressing DIGEST button again.



16 side windows are renewed clockwise. Next memorized programme appear in the renewed windows.

To choose the programme, press the channel number with the numeric buttons on the remote control.





Teletext On/Mix/Off

You can switch on and off teletext function by pressing **TEXT** button on remote control. Teletext function is available only with TV and S-video/AV input port VIDEO1, VIDEO2 and other port are not support teletext function.

TOP Text

The user guide displays four fields - red, green, yellow and blue - at the bottom of the screen. The yellow field denotes the next group and the blue field denotes next block.

Block/Group/Page Selection

- With the blue button you can move block to block.
- Use the yellow button to proceed to the next group with automatic overflow to the next group.
- With the green button, you can go to the next exiting page. (Use PG+ button as alternate).
- With the red button, you can go to the previous page. (Use PG- button as alternate)

You can go to the page by pressing the numeric button on the remote control.

FASTEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding colored button. Press index button to select the index page. You can go to a page by pressing the numeric button on remote control. You can move a page by pressing PG+/PG- button to select the page you want to see.



Changing the Picture Mode

Your the TV has 3 automatic factory preset picture settings (**Standard**, **Vivid** and **Mild**). You can choose **Standard**, **Vivid** or **Mild** by pressing Picture button on the remote control (or by making a selection from the menu). Or you can select **User** which automatically recalls your personalized picture settings.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Mode** and press Menu/Set button to enter the sub menu. Then the picture sub mode appear.
- 5 Select the picture mode and press Menu/Set button.
- You will see the picture setting bars. Just press Exit button on the remote control. You can adjust each values of the picture setting, but the changed values are stored as in **User** mode.

User mode require more settings. It has an under menu: See next page.

Tint feature is enabled while input signal is NTSC mode.



Alternative method: Just press the Picture button on the remote control. Each time it is pressed, different mode is selected.





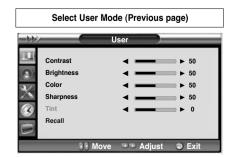


Adjusting the User Mode

You can change the Contrast, Brightness, Color, and Sharpness according to personal preference in User mode.

- 1 Select the item to adjust with \(\bigcirc / \bigcirc \) button.
- 2 Press Menu/Set button.
- 3 Adjust the item with 🔝 / 🔊 button.
- 4 To cancel all adjust, select **Recall** and press Menu/Set button.

For a more detailed description of these settings, see the next page.





Contrast

Adjust brightness difference between bright part of the screen and dark part.





Distinct ◀

► Vague

Brightness

Adjust brightness of the screen.





Dark ◀

► Bright

Color

Adjust deep and light colour of the screen.





Decrease ◀

▶ Increase

Sharpness

Adjust vividness of the screen.







► Sharp

Tint

Adjust the balance between green and yellow.



Green color is deeper ◀



► Red color is deeper

Changing the Colour Temperature

Your TV has 5 screen temperatures (colour settings).

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu.
- 3 Press Menu/Set button to enter the picture menu.
- 4 Select **Temperature** and press Menu/Set button to enter the sub menu. Then the picture-temperature under menu appear.
- Select the Temperature mode with \(\textstyle / \) button and press Menu/Set button.
- 6 Press Exit button to return.
- Cool 1, 2

Screen seems cool: Strong Blue.

Normal

Normal: Factory default.

Warm 1, 2

Screen seems warm: Strong Red.





Changing the Color Enhancer

This function will enhance the color level. Green, Blue and Skin color on the picture will enhance, while others areas remain unchanged.

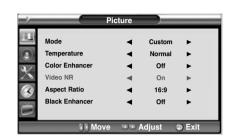
- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu item.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select Color Enhancer. Then the cursor moves into the ◀► parts.
- 5 Turn on or off Film mode function with 3 / 1 button and press Exit button.



Video NR (Noise Reduction)

This function automatically filters out and reduces the image noise and improves picture quality where receiving weak signals.

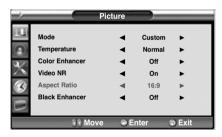
- Press Menu/Set button to display the main
 OSD menu.
- 2 Select the Picture main menu item.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select Video NR. Then the cursor moves into the ◀▶ parts.



Changing the Aspect Ratio

Your TV has four Aspect Ratio: 16:9, 4:3, Panorama, Zoom1, Zoom2. (For more detail description for these modes, refer to the next page.)

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu.
- 3 Press Menu/Set button to enter the picture menu.
- 4 Select Aspect Ratio and press Menu/Set button to enter the sub menu. Then the Aspect Ratio sub menu appear.
- 5 Select the Aspect Ratio you want and press Menu/Set button.







- Panorama Aspect Ratio is not available for COMPONENT1-2, PC RGB, DVI, HDMI input source.
- PC RGB, DVI, HDMI input source use 4:3 or 16:9 Aspect Ratio.
- · Not Available Aspect Ratio Function In DIGITAL TV input.

Aspect Ratio Description

16:9

16:9 video: No change.

4:3 video : Expands 4:3 video signal horizontally to fit

the 16:9 screen.

Panorama

16:9 video: No change.

4:3 video : Expands 4:3 video horizontally to fit the

16:9 screen and to minimize distortion, sides are expanded more than center.

Zoom1

Expands 16:9 mode screen vertically.

Zoom2

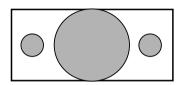
Expands Zoom 1 mode screen vertically.

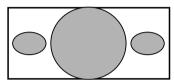
4:3

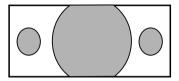
16:9 video: The image is suppressed.

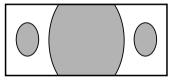
4:3 video : No expansion.

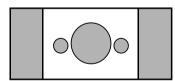
There are gray areas besides the image.





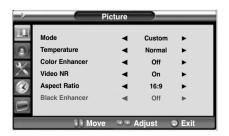






Selecting the Black Enhancer

This will enhance the black level / the contrast of the picture. The dark regions of the picture are made darker, while bright areas remain unchanged. The advantage of this black-level expansion is that the black expansion is performed only if it is noticeable to the viewer.



Setting the Picture (PC)



In PC Mode, you can adjust the H, V-Position, H-Size and Phase. Also you can adjust them automatically.

Position

You can change H, V-Position, H-Size and Phase in PC mode like usual PC monitors. You can also adjust them automatically. (Auto adjust function.)

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu with \(\bigcap / \bigcap \) button.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select Position and press Menu/Set button to enter the under menu. Then the picture-position under menu will appear.



Auto Adjust

- 1 Select the item to adjust with \(\textstyle \sqrt{2} \) button.
- 2 Press Menu/Set button.
- 3 Then the cursor moves on the bar and you can adjust the value with [] / [] button.
- 4 To adjust these items, automatically, select **Auto Adjust** and press Menu/Set button.

For more detail description refer to the next page.



1366 Mode (Native Mode)

The menu is displayed on PC Mode.

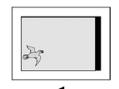
1024 x 768 will be recognized under "Off" condition and 1366 x 768 under "On" when 1366 x 768 signal input.

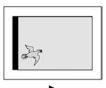
- 1 Move to 1366 Mode with cursor indicating On/Off mode.
- 2 Choose "On or Off" by cursor.



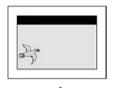
Setting the Picture (PC)

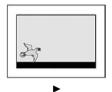
H-Position





V-Position





Phase





atch Match

In Sound Menu, you can adjust balance, MTS (Multi-Track Sound), AVC (Auto Volume Control) and select the equalizer settings.

Adjusting the Sound Balance

This control allows you to adjust the balance of the left and right speaker output.

- 1 Press Menu/Set button to display the main OSD menu
- 2 Select the Sound main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Balance** and press Menu/Set button.
- 5 Adjust the Balance with button and press Menu/Set button.

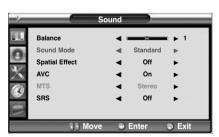


Changing the Sound Mode

Your TV has four automatic sound settings (**Standard**, **Movie**, **Music** and **News**) that are preset at the factory. You can activate either Standard, Movie, Music, or News by pressing Sound on the remote control (or by making a selection from the menu) or you can select **User** which automatically recalls your personalized sound settings.

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select Sound Mode and press Menu/Set button to enter the sub menu. Then the mode sub menu appear.
- 5 Select the **User** setting and press Menu/Set button.
- You will see the equalizer bars. Just press Exit button on the remote control. You can adjust each values of equalizer, but the changed values are values of **User** mode.

User mode require more settings. It has sub menu: See next page.







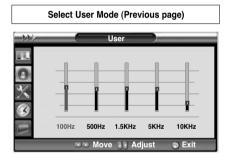


BBE VIVA: Optional BBE VIVA **SRS**: Optional SRS TruSound

User Adjust

You can use the OSD menu to change the Treble, Bass, Balance, and DRC according to your preference.

- 1 Equalizer menu appear when you select User mode.
- 2 Select a gain bar with 3 / 2 button on the remote control and adjust it with 2 / 2 button.
- Press Exit button on the remote control to exit equalizer. The result will be saved automatically.



Spatial Effect

This function can create surround effect such as the sound seems to come from all directions.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu item with 2 / 2 button.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Spatial Effect**. Then the cursor moves into the **◄**▶ parts.
- 5 Turn on or off spatial effect function with 3 / 1 button and press Menu/Set button.

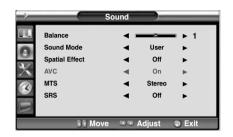




AVC (Auto Volume Control)

This function adjust sound volume level automatically depending on the source.

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select AVC. Then the cursor moves into the ◆► parts.



MTS (Multichannel Television Sound)

Select sound signal format from the input source. There are Mono, Language A, Language B, Language AB sound formats.

- Press Menu/Set button to display the main OSD menu.
- Select the Sound main menu with button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select MTS and press Menu/Set button to enter the sub menu. Then the MTS sub menu appear.
- 5 Select the MTS format with and press Menu/Set button.

The available sound formats are displayed. Usually, you can see Mono and Stereo.



Sound

User

Off

On

Stereo

Balance Sound Mode

AVC

MTS

Spatial Effect



NICAM: A Digital stereo sound format for analog TV from BBC. If a programme transmit NICAM sound signal, you can hear high quality digital stereo sound. The TV recognize NICAM automatically.

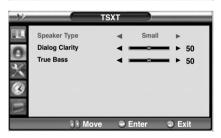


SRS (Sound Retrieval System)

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu with \(\bigsim / \bigsim \) button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **SRS** and press Menu/Set button to enter the sub menu. Then the SRS sub menu appear.
- 5 Select the TSXT format with and press Menu/Set button.









SRS: This menu is option.

The menu will be deleted in T.V. models that does not support SRS.

This functions is optional as TV model.

In Setup Menu, you can adjust the transparency of the OSD menu and set PIP and others.

Adjusting the Transparency of the OSD Window

Adjust the transparency of the OSD menu. There are 8 steps from 0 to 7.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Setup main menu with \(\textstyle \) button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Transparency**. Then the cursor moves into the **◄**▶ parts.
- 5 Adjust with button and press Exit button.

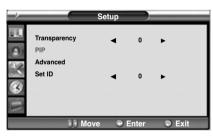


PIP (Picture in Picture)

You can watch two programmes or sources at the same time. And Setup PIP size and position.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Setup main menu with ____ / ___ button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **PIP** and press Menu/Set button to enter the sub menu. Then the PIP sub menu appear.









O Changing the Size in PIP

Change the size of the PIP window. There are 3 sizes: Small, Large, Twin.

- 1 Select **Size** and press Menu/Set button.
- 2 Adjust size function with button and press Menu/Set button.







Small

Large

Twin

Changing the Source in PIP

Change the source of the PIP window.

- Select Source and press Menu/Set button to enter the sub menu. Then the PIP sub menu appear.
- The available sources will be displayed. Select the source and press Menu/Set button.





1. Type1

PIP Main	ANALOGUE TV	DIGITAL TV	VIDEO1	VIDEO2	S-VIDEO/AV	COMPONENT1	COMPONENT2	PC	DVI	HDMI
ANALOGUE TV	-	V	V	V	V	V	V	V	V	v
DIGITAL TV	V	-	V	V	V	V	_	V	V	v
VIDEO1	V	V	-	V	V	V	V	V	V	V
VIDEO2	V	V	V	_	V	V	V	V	V	v
S-VIDEO/AV	V	V	V	V	-	V	V	V	V	v
COMPONENT1	V	V	V	V	V	_	V	V	V	v
COMPONENT2	V	-	V	V	V	V	_	V	V	v
PC	V	V	-	_	V	V	V	-	-	-
DVI	V	V	-	-	V	V	V	-	-	-
HDMI	V	V	_	-	V	V	V	-	-	-

2. Type2

PIP Main	ANALOGUE TV	DIGITAL TV	VIDEO1	VIDEO2	S-VIDEO/AV	COMPONENT	PC	HDMI1	HDMI2
ANALOGUE TV	_	_	_	_	_	_	_	V	v
DIGITAL TV	-	_	_	_	_	_	_	V	V
VIDEO1	-	_	_	_	_	_	_	V	V
VIDEO2	-	_	_	_	_	_	_	V	V
S-VIDEO/AV	_	_	_	_	-	_	-	V	V
COMPONENT	_	_	_	_	_	_	_	V	V
PC	-	_	_	_	_	_	_	_	-
HDMI1	V	V	V	V	V	V	-	_	-
HDMI2	V	V	V	V	V	V	-	_	-

Picture Swap in PIP (Picture in Picture)

Swap the sources of the main screen and the PIP window.

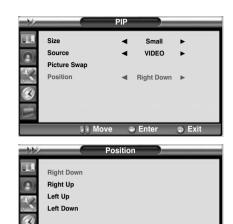
Select Picture Swap and press Menu/Set button.



Position in PIP

Change the position of the PIP window.

- 2 In sub menu, there are four positions.
 Select the position with 2 button on the remote control and press Exit button.



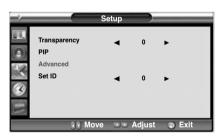
Move

Advanced

You can Set ID, Blue Back, Language and Front Key Lock in Advanced menu.

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Setup main menu with / button on the remote control.
- Press Menu/Set button to enter the sub menu.
- 4 Select **Advanced** and press Menu/Set button to enter the advanced menu.

Then the advanced sub menu appear.





Setting the Time



Language in Advanced

Set the language to use in OSD. Supported languages are English, French, German, Spanish, Italian.

- 1 Select Language and press Menu/Set button.
- 2 Choose the Language with \(\) button and press Exit button.

Blue Back in Advanced

You can set to display blue-color screen instead of noise screen.

- 1 Select Blue Back. Then the cursor moves into the ◀▶ part.
- 2 Turn the function on or off with [3] / [2] button and press Exit button.

Front Key Lock in Advanced

Lock the OSD panel of the TV. It can protect the TV from children's power On/Off or other operation by miss.

- Select Front Key Lock. Then the cursor moves into the ◀► parts.
- 2 Turn the function on or off with 4 button and press Exit button.







Set ID

Set the ID of TV for mass-controlling through the serial port.

- 1 Select **Set ID**. Then the cursor moves into the **◄►** part.
- Adjust with button and press Exit button.



In the Time Menu, you can set the current time and auto power On/Off.

Time Mode

Set the current time.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Time Mode** by pressing Menu/Set button.
- 5 Set the time mode with 🔝 / 🔼 button.



Time Zone

Set the current time.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Time Zone** by pressing Menu/Set button.
- 5 Set the time zone with button.



In the Time Menu, you can set the current time and auto power On/Off.

Setting the Current Time

Set the current time.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Time Set** by pressing Menu/Set button.
- 5 Move the cursor by pressing 4 / button and adjust time by 4 / button.



Setting the On Time

This TV can be set to turn on automatically at specific time that you choose. Before using the timer, you must set the TV's Time as described previously.

- Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu with button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **On Time** with button and press Menu/Set button.
- 5 Move the cursor by button and adjust time by button.





Setting the On Volume

Set the sound volume level when TV power on automatically.

Available only when the time is set and On Time is ON.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu with \(\bigcirc / \bigcirc \) button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select On Volume.
- 5 Enter to the **◄►** part. Then the cursor moves into the **◀►** parts.
- 6 Adjust the sound volume level with 4 button.



Setting the Time

Setting the Off Time

This TV can be set to turn off automatically at specific times that you choose. Before using the timer, you must set the TV's clock as described previously.

- Press Menu/Set button to display the main
 OSD menu.
- 2 Select the Time main menu with \(\bigsim / \subseteq \text{button} \)
 on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 5 Move the cursor with button and adjust time with button.



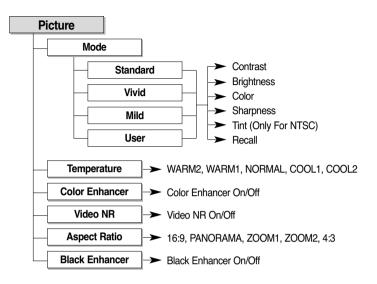
Setting the Sleep Timer

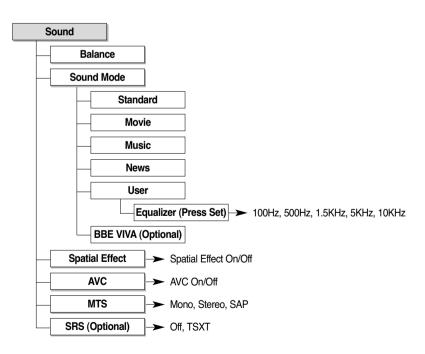
You can set your the TV to automatically turn off after a preset interval.

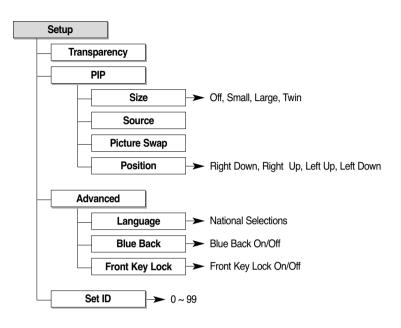
If you turn off the TV in the state of setting up sleep time and turn on again, sleep time erased therefore Setup again. The time period runs from OFF (0 min) to 180 min. (OFF, 10 min, 20, 30, 60, 90, 120, 150, 180)

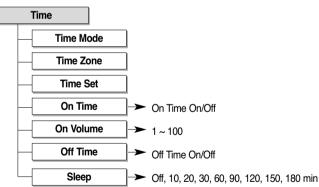
- Press Menu/Set button to display the main OSD menu.
- Select the Time main menu with button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- Select Sleep with button on the remote control.
- 5 Enter to the **◄►** part. Then the cursor moves into the **◀►** parts.
- 6 Set the time period with [] / D button.
- 7 Press Exit button to return.





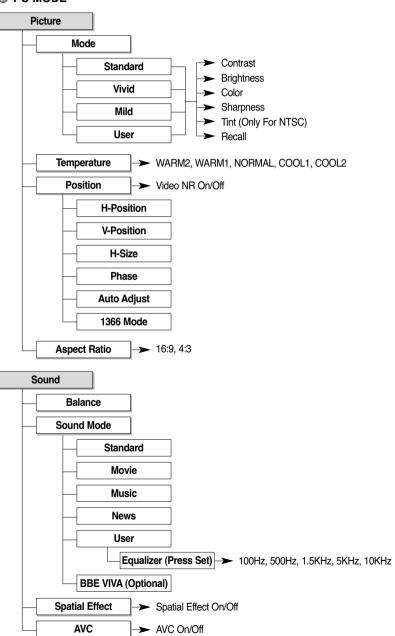


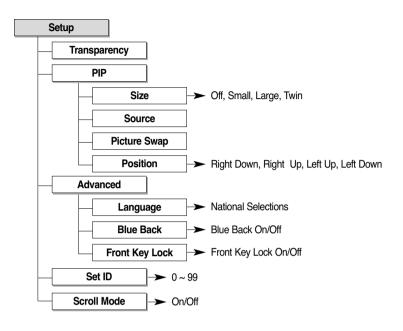


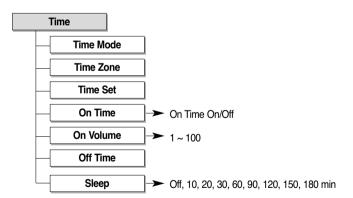




O PC MODE









Before you call a service technician, please scan this list of problems and possible solutions. It may save you time and money.

Problem	Quick Action for Possible Solution					
No picture & No sound	 Check whether the TV is turned on. Power cord inserted into wall outlet? Plug another product's power cord into the wall outlet where the TV's power cord was plugged in. 					
Picture Ok & No sound	Press the VOL (^) button. Check the audio input signal.					
The remote control doesn't work	Check to see if there is any object between the Plasma Display and the remote control causing obstruction. Check to see if the batteries are installed with the correct polarities.					
Digital broadcasting screen problem	Check the digital signal strength and input antenna.					
No or poor color or poor picture	 Select color in the picture and press button. Keep a certain distance between the TV and the VCR. Activate any function to restore the brightness of the picture. Check to see that both the TV and the source are plugged in and turned on. 					
The image is too light or too dark	Adjust the brightness or contrast settings.					
The image is too large or too small	Adjust the size settings.					
No output from one of the speakers	Adjust Balance in the sound menu.					
Strange sound from the TV	Typical sound due to normal TV operation, TV is not faulty.					

Specification - 26" LCD



26" LCD TV

Function and Display Specification

Display Size 26-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

Contrast Ratio 1200 : 1 Brightness 600 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 681mm (W) X 471mm (H) X 93mm (D)
With Stand 681mm (W) X 527mm (H) X 245mm (D)
With Stand and Speaker 681mm (W) X 527mm (H) X 245mm (D)

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 120 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT Input RCA X 1Port

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port

HDMI 1, 2 Input HDMI X 2Port



Specification - 32" LCD

32" LCD TV

Function and Display Specification

Display Size 32-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

Contrast Ratio 3000 : 1 Brightness 500 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

 Main Only
 812mm (W) X 560mm (H) X 106mm (D)

 With Stand
 812mm (W) X 617mm (H) X 245mm (D)

 With Stand and Speaker
 812mm (W) X 617mm (H) X 245mm (D)

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 150 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT Input RCA X 1Port

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port

HDMI1, 2 Input HDMI X 2Port

Specification - 37" LCD (Plastic Model)



37" LCD TV (Plastic Model)

Function and Display Specification

Display Size 37-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

Contrast Ratio 5000 : 1 Brightness 500 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1108mm (W) X 577.5mm (H) X 103mm (D) / 30 kg With Stand 1108mm (W) X 645.5mm (H) X 270mm (D) / 31.5 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 180 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port



Specification - 42" LCD

42" LCD TV

Function and Display Specification

Display Size 42-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

Contrast Ratio 5000 : 1
Brightness 500 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1013mm (W) X 692mm (H) X 121mm (D) With Stand 1013mm (W) X 625mm (H) X 270mm (D) With Stand and Speaker 1108mm (W) X 692mm (H) X 121mm (D)

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz Power Consumption 180 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT Input RCA X 1Port

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port

HDMI1, 2 Input HDMI X 2Port

Specification - 42" PDP



42" Plasma TV

Function and Display Specification

Display Size 42-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 852 X 480 Physical Pixel

Contrast Ratio 10000 : 1
Brightness 1500 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1046mm (W) X 635mm (H) X 87.3mm (D) / 38 kg
With Stand 1046mm (W) X 702mm (H) X 299mm (D) / 38.9 kg
With Stand and Speaker 1246mm (W) X 702mm (H) X 299mm (D) / 41.5 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 350 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port



Specification - 42" PDP (Plastic Model)

42" Plasma TV (Plastic Model)

Function and Display Specification

Display Size 42-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 852 X 480 Physical Pixel

Contrast Ratio 10000 : 1
Brightness 1500 cd/m²
May least Receiving 1000 X 1004

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode Multiple input compatible

Input Compatible Multiple input compatible

Video Movanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1220mm (W) X 645mm (H) X 87mm (D) / 30 kg With Stand 1220mm (W) X 708.4mm (H) X 305mm (D) / 31.5 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 350 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port

Specification - 42" PDP



42" Plasma TV

Function and Display Specification

Display Size 42-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1024 X 768 Physical Pixel

Contrast Ratio 10000 : 1

Brightness 1500 cd/m²

Manufact Ratio 1000 V 1

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1046mm (W) X 635mm (H) X 87.3mm (D) / 38 kg
With Stand 1046mm (W) X 702mm (H) X 299mm (D) / 38.9 kg
With Stand and Speaker 1246mm (W) X 702mm (H) X 299mm (D) / 41.5 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 400 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port



Specification - 42" PDP (Plastic Model)

42" Plasma TV (Plastic Model)

Function and Display Specification

Display Size 42-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 852 X 480 Physical Pixel

Contrast Ratio 10000 : 1
Brightness 1500 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode Multiple input compatible

Input Compatible Multiple input compatible

Video Mover Move

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1220mm (W) X 645mm (H) X 87mm (D) / 30 kg With Stand 1220mm (W) X 708.4mm (H) X 305mm (D) / 31.5kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 400 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port

Specification - 50" PDP



50" Plasma TV

Function and Display Specification

Display Size 50-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

 Contrast Ratio
 3000 : 1

 Brightness
 1000 cd/m²

 Manufact Resolution
 1000 V 1004

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1216mm (W) X 732mm (H) X 87.3mm (D) / 50 kg With Stand 1216mm (W) X 798mm (H) X 299mm (D) / 55 kg With Stand and Speaker 1416mm (W) X 798mm (H) X 299mm (D) / 59 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 \sim 240V 50/60Hz

Power Consumption 520 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port



Specification - 50" PDP (Plastic Model)

50" Plasma TV (Plastic Model)

Function and Display Specification

Display Size 50-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

 Contrast Ratio
 3000 : 1

 Brightness
 1000 cd/m²

 Max Input Resolution
 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1390mm (W) X 737.8mm (H) X 82mm (D) / 45.5 kg With Stand 1390mm (W) X 801.2mm (H) X 305mm (D) / 47 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 520 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port

Specification - 63" PDP



63" Plasma TV

Function and Display Specification

Display Size 63-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

Contrast Ratio 1000 : 1
Brightness 800 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (PAL/SECAM)

Programming Favorite channel programming, Time Set, Set the Sleep timer, TTX HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 1503mm (W) X 893mm (H) X 92.6mm (D) / 79 kg
With Stand 1503mm (W) X 927mm (H) X 400mm (D) / 98 kg
With Stand and Speaker 1703mm (W) X 927mm (H) X 400mm (D) / 104.7 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 580 Watt (Max)

Connectivity

TV Input RF/CATV (PAL/SECAM)
COMPOSITE Input RCA X 3Port (AV Input 1, 2, 3)

COMPONENT 1, 2 Input RCA X 2Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))
DVI Input (DVI-D) Mini D-Sub 29Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 3Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port