

# PLASMA HDTV owner's manual

Please read this manual carefully before operating your set. Retain it for future reference. Record model number and serial number of the set. See the label attached on the back cover and quote this information to your dealer when you require service.

Model number : Serial number :

P/NO: 3828VA0505G (DF057B, 142H TX)

# Safety Instructions

### WARNING

Do not place the set in direct sunlight or near heat sources such as heat registers, stove and so on.

This may cause a fire.

Do not use the set in damp place such as a bathroom or any place where it is likely to get wet.

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

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

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

#### Earth wire should be connected.

- If the earth wire is not connected, there is possible a danger of electric shock caused by the current leakage.
- If grounding methods are not possible, a separate circuit breaker should be employed and installed by a qualified electrician.



- Do not connect ground to telephone wires, lightning rods or gas pipe.

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

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

**Do not insert any object into the exhaust vent.** - This may cause a fire or could give an electric shock.

#### Do not place heavy objects on the set.

This may cause serious injury to a child or adult.

#### Do not use water while cleaning the set.

- This may cause damaged the set or could give an electric shock.

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

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

### Do not attempt to service the set yourself. Contact your dealer or service centre.

This may cause damaged the set or could give an electric shock.

### During storm activity, unplug the set from the wall outlet and don't touch an antenna cable.

This may cause damaged the set or could give an electric shock.

#### DISCONNECTING DEVICE FROM MAINS

Mains plug is the disconnecting device. The plug must remain readily operable.

Use a dedicated power cord. Do not modify or extend the power cord.

### Do not install, remove, or reinstall the unit by yourself (customer).

For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center. For installation, always contact the dealer or an Authorized Service Center.

Do not use if the power cord or plug is damaged, or socket is loose. Use a dedicated outlet for this appliance.

Do not over bend the power cord and do not place anything on the power cord. Do not install the monitor near any sharp edge to avoid wire damage. \* Safety instructions have two kinds of information, and each meaning of it is as below.

/WARNING The violation of this instruction may cause serious injuries and even death.

The violation of this instruction may cause light injuries or damage of the /NOTES product.

▲ Take care of danger that may happen under specific condition.

### /NOTES

Never touch the power plug with a wet hand. This may cause an electric shock.

Disconnect from the mains and remove all connections before moving.

Do not place the set in a built-in installation such as a bookcase or rack.

Ventilation required.



When installing the set on a table, be careful not to place the edge of its stand on the end of the table.

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



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.

Do not pull the plug not the cord when disconnecting. This may cause a fire.

Ensure the power cord doesn't trail across any hot objects like a heater.

This may cause a fire or an electric shock.

Do not plug in unit if power cord or plug is damaged or the connecting part of the power outlet is loose. - This may cause a fire or an electric shock.

Dispose of used batteries carefully to prevent a child from eating them.

- In case of a child eating them, contact doctor immediately.

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

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

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

This may cause damage the set or could give an electric shock.

Contact the service centre once a year to clean the internal part of the set.

Accumulated dust can cause mechanical failure.

The distance between eyes and the screen should be approx. 5 ~ 7 times the diagonal length of the screen away.

- If not, eyes will strain.

Unplug the set from the wall outlet when it is left unattended and unused for long periods of time or occurred a state of emergency.

Accumulated dust may cause a fire or an electric shock from deterioration through electric leakage.

### Contents

### Safety Warnings Safety Instructions

Safety Instructions
Introduction Remote Control Key Functions
Installation External Equipment Viewing Setups
Operation         Turning on the Set         Programme selection         Volume adjustment         Mute function         Channel Monu Optione
Auto Programme Tuning
PSM (Picture Status Memory)       .23         Picture adjustment       .23         Adjusting Auto Colour Control       .23         Video preset       .24         APM (Adaptive Picture Mode)       .24
Adult Menu Options         SSM (Sound Status Memory)       .25         AVL (Auto Volume Leveler)       .25         Sound adjustment       .25         Front surround       .25         Speaker adjustment       .26         BBE       .26         Sound output selection       .26         Stereo reception (In Analogue mode only)       .26

Time Menu Options
Auto clock setup
Manual clock setup
Setting the On/Off time
Sleep timer 28
Auto sleen 28
Special Menu Ontions
Main Picture Source Selection 29
Subtitle (In Digital mode only) 29
Child Lock 30
Picture format 30
Auto Domo 21
Auto Demo
Lock setup
PIP (Picture-in-Picture) / POP / Iwin Picture
On and off
Input mode selection for sub picture
Sub picture position change
Programme selection for sub picture
Swapping between main and sub picture
Adjusting main and sub picture sizes for Twin Picture33
POP (Picture-out-of-Picture: Channel Scan)33
Teletext (option)
Switch on/off
SIMPLE Text (option)
TOP Text (option)
FASTEXT
Special Teletext Functions
EPG (Electronic Programme Guide) (In Digital mode only)
Χςτυρία
Notes on Memory Card
JPEG File Viewing Options
MP3 File Playing Operation
, , , ,
Miscellaneous
External Control Device Setup
IR Code (NEC format)
Programming the Remote
Programming Codes
Troubleshooting Checklist
Product Specifications

After reading this manual, keep it in a place where the user can refer to easily.



DVB is a registered trademark of the DVB Project

### Introduction

#### What is a Plasma Display ?

If voltage is inputted to gas in glass panels, ultraviolet rays are outputted and fused with a fluorescent substance. At this moment, light is emitted. A Plasma Display is a next generation flat Display using this phenomenon.

#### 160° - Wide angle range of vision

A Plasma Display provides more than 160° angle range of vision so that you can get a picture without distortion from any direction.

#### Easy installation

A Plasma Display is much lighter and smaller than other same class products so that you can install the Plasma Display in the desired place.

#### Big screen

The screen of a Plasma Display is 60" so that you can get vivid experience as if you are in a theater.

#### Multimedia Plasma Display

A Plasma Display can be connected with a computer so that you can use it as a screen for conference, game, internet and so on.

#### The explanation about coloured dots may be present on PDP screen

The PDP which is the display device of this product is composed of 0.9 to 2.2 million cells and a few cell defects can occur in the manufacture of the PDP. Several coloured dots visible on the screen would be acceptable, in line with other PDP manufacturers and would not mean that the PDP is faulty. We hope you will understand that the product which corresponds to this standard is regarded as acceptable. It means that it could not be changed or refunded. We promise that we'll do our best to develop our technology to minimize the cell defects.

TO AVOID BURNING IMAGE INTO THE DISPLAY, DO NOT HAVE A STILL IMAGE ON SCREEN FOR EXTENDED PERIOD OF TIME. IMAGE AFTER BURN WILL NOT BE COVERED UNDER WARRANTY ie.Menus, Video games, Borders or LOGOS

#### WARNING

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

# **Remote Control Key Functions**

- When using the remote control aim it at the remote control sensor of the set.

- There maybe a defect in operation of this remote control in an excessively bright room when viewing this set.





- Open the battery compartment cover on the back side and insert the batteries with correct polarity.
- Install two 1.5V alkaline batteries of AA type. Don't mix used batteries with new batteries.

6 PLASMA HDTV

### **Location and Function of Controls**

- Shown is a simplified representation of the set.
- Here shown may be somewhat different from your set.



#### 1. Remote Control Sensor

#### 2. Power Button

Switches the set on from standby or off to standby.

### 3. INPUT Button

Selects the TV, AV, Component, RGB or HDMI modes. Switches the set on from standby.

#### 4. MENU

Displays on screen menus one by one. Exits the current menu. Memorizes menu changes.

#### 5. OK

Accepts your selection or displays the current mode.

- 6. ▲ / ▼ (Programme Up/Down) Selects a programme or a menu item. Switches the set on from standby.
  ◀ / ► (Volume Up/Down) Adjusts the volume. Adjusts menu settings.
  7. INDEX
  - Switches LED Display on or off.
- 8. Power Indicator Illuminates red in standby mode, illuminates green when the set is turned on.
- 9. Memory Card Slots 1, 2

### Location and Function of Controls

- Shown is a simplified representation of the set.
- What is shown here may be somewhat different from your set.

#### <Back Panel>



- 1. RS-232C INPUT (CONTROL/SERVICE) PORT Connect to the RS-232C port on a PC.
- 2. CONTROL LOCK / REMOTE CONTROL
- 3. DVI INPUT/COMPONENT 1 INPUT/OUTPUT (DIGITAL AUDIO (OPTICAL))

Connect digital audio from various types of equipment. *Note:* In standby mode, these ports will not work.

- 4. HDMI/DVI INPUT / AUDIO INPUT / RGB INPUT (PC/DTV) Connect the monitor output socket of the PERSONAL COM-PUTER to this socket. Note: If you want to use RGB/DVI audio, we strongly recommend that you use the cable that has a core, or the EMI Filter core along with separate cable.
- 5. COMPONENT INPUT

Connect DVD video outputs to Y, PB, PR of COMPONENT INPUT and audio outputs to Audio sockets of AUDIO INPUT.

 AUDIO/VIDEO IN SOCKETS (A/V INPUT1) Connect the audio/video out sockets of external equipment to these sockets.

S-VIDEO/AUDIO IN SOCKETS

Connect the S-VIDEO out socket of the VCR to the **S-VIDEO** socket.

Connect the audio out sockets of the VCR to the audio sockets as in **A/V INPUT1**.

AUDIO/VIDEO OUT SOCKETS (MONITOR OUTPUT)

7. ANTENNA INPUT

#### 8. POWER CORD SOCKET

This Monitor operates on AC power. The voltage is indicated on the Specifications page. Never attempt to operate the Monitor on DC power.

9. AUDIO/VIDEO IN SOCKETS (A/V INPUT2) S-VIDEO/AUDIO IN SOCKETS

### **External Equipment Viewing Setups**

#### **Antenna Connection**

- Be careful not to bend the bronze wire when connecting to an antenna port.



#### Watching VCR

- When connecting the Monitor to external equipment, match the colours of connecting ports (Video yellow, Audio (L) white, Audio (R) -red).
- Connect the VIDEO OUTPUT socket (yellow) to the VIDEO INPUT on the set.
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO (L/MONO) input on the set.
- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
- Use the orbiter function to Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR. (Refer to p. 31)
- If a 4:3 picture format is used; the fixed image may remain visible on the screen.
- To avoid picture noise (interference), leave an adequate distance between the VCR and the set.

#### Watching TV programmes

- Turn the set on and select the programme you want.

#### Watching VCR

- 1. Use the INPUT button on the remote control to select AV 1 or AV 2.
- If both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.
- 2. Insert a video tape into the VCR and press the PLAY button on the VCR.
  - (See VCR owner's manual)



### **External Equipment Viewing Setups**

#### Watching Cable TV

- After subscribing for a local cable TV station and installing a converter you can watch cable TV.
- For further information of cable TV, contact the local cable TV station.



#### To watch cable TV

- 1. Use the INPUT button on the remote control to select AV 1 or AV 2.
- **2.** Tune the cable provided channels using the Cable set-top box.

#### Watching DVD

#### How to connect

- 1. Connect the DVD video outputs (Y, PB, PR) to the COMPONENT (Y, PB, PR) INPUT jacks on the set and connect the DVD audio outputs to the AUDIO INPUT jacks on the set, as shown in the figure.
- If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the set and connect the DVD audio outputs to the AUDIO INPUT jacks on the set, as shown in the figure.

Note: a. If your DVD player does not have component video output, use S-Video.

b. Digital Audio will not work for Component 2 input source. Digital Audio operation has priority if Digital Audio and AUDIO L/R are connected at the same time.

#### How to use

- 1. Turn on the DVD player, insert a DVD.
- 2. Use the INPUT button on the remote control to select Component 1 or Component 2.

(If connected to S-VIDEO, select the **AV 1** or **AV 2** external input source.)

- 3. Refer to the DVD player's manual for operating instructions.
- Component Input ports

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

Component ports of the set	Y	Pa	Pa
Video output ports of DVD player	Y Y Y	Pb B-Y Cb PB	Pr R-Y Cr PR



#### Watching external AV source

- When connecting the set to an external source, match the colours of AUDIO/VIDEO input jacks on the set with the output jacks on the audio/video equipment: Video = yellow, Audio (Left) = white, Audio (Right) = red.
  - < Back panel of the set >



#### How to use

- 1. Use the INPUT button on the remote control to select AV 1 or AV 2.
- 2. Operate the corresponding external equipment. See external equipment operating guide.

#### Watching DTV with Set-top box

- This set can receive Digital Free to air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

#### How to connect

1. Use the monitor's COMPONENT (Y, PB, PR) INPUT, RGB or HDMI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

#### How to use

- 1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 2. Use INPUT button on the remote control to select Component 1, Component 2, RGB-DTV or HDMI/DVI-DTV.

### DTV Input signal

Vode Terminal	Component	RGB (DTV)	HDMI/DVI (DTV)
480i	о	х	x
576i	o	x	x
480p	o	o	o
576p	o	o	o
720p	o	o	o
1080i	o	o	o





# **External Equipment Viewing Setups**

#### Connecting PC

- To enjoy vivid picture and sound, connect a PC to the set.
- Avoid keeping a fixed image on the set's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- Connect PC to the RGB INPUT or HDMI/DVI INPUT port of the set; change the resolution output of PC accordingly.
- There might be noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode into another resolution or change the refresh rate into another rate or adjust the brightness and contrast on the menu until the picture is clean. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult it to the manufacturer of the PC graphic card.
- The synchronization input waveform for Horizontal and Vertical frequencies are separate.

#### Setup Instructions to Connect a PC to your set

- We recommend using 1024x768, 60Hz for the PC mode, they provide the best picture quality.
- If the resolution of PC is over XGA, there will be no picture on the set.
- Connect the signal cable from the monitor output port of the PC to the RGB INPUT port of the set or the signal cable from the HDMI or DVI output port of the PC to the HDMI/DVI INPUT port on the set.
- Connect the audio cable from the PC to the Audio input on the set. (Audio cables are not included with the set).
- If using a sound card, adjust PC sound as required.
- This set uses a VESA Plug and Play Solution. The set provides EDID data to the PC system with a DDC protocol. The PC adjusts automatically to use this set.
- DDC protocol is preset for HDMI (Digital RGB) mode.
- If required, adjust the settings for Plug and Play functionally.
- If graphics card on the PC does not output analog and digital RGB simultaneously, connect only one of RGB INPUT or HDMI INPUT to display the PC on the set.
- If graphic card on the PC does output analog and digital RGB simultaneously, set the set to either RGB or HDMI; (the other mode is set to Plug and Play automatically by the set.)
- DOS mode may not work depending on video card if you use a HDMI to DVI cable.
- When you use too long RGB-PC cable, there might be noise on the screen. We recommend using under 5m of the cable. It provides the best picture quality.

#### PC Setup

- 1. Turn on the display by pressing the **POWER** button on the set's remote control.
- 2. Use the INPUT button on the remote control to select the RGB or HDMI/DVI input source.
- 3. Turn on the PC and apply power to the set.
- 4. Set the resolution output of the PC to XGA or under (1024 x 768, 60Hz).

#### < Back panel of the set >



#### **Displayable Monitor Specification**

#### RGB / HDMI/DVI mode

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
	31.469	59.94
640x480	37.861	72.80
	37.500	75.00
	35.156	56.25
800,4600	37.879	60.31
800x600	48.077	72.18
	46.875	75.00
	48.363	60.00
1024x768	56.476	70.06
	60.023	75.02

#### Screen Adjustments

- This function works in the following mode:
- Component 1, Component 2, RGB-PC, RGB-DTV or HDMI/DVI-DTV
- 1. Press the OK button and then ▲ / ▼ button to select the desired picture item.
- Press the ► button and then ◄ / ► or ▲ / ▼ button to make appropriate adjustments.

#### Position

This function is to adjust picture to left/right and up/down as you prefer.

### Phase (Component 1, Component 2, RGB-PC or RGB-DTV mode) & Clock (RGB-PC mode only)

This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

- To correct the screen size, adjust Clock.
- The adjustment range of **Phase** is 0 ~ 31.
- The adjustment range of Clock is -50 ~ +50.

**Note :** Some signal from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's position, size and phase manually.

#### Reset

This function allows you to return to the good picture reproduction programmed at the factory and cannot be changed.

#### **Digital Audio Output**

< Back panel of the set >



- Send the set's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical) port.

**Caution**: Do not look into the optical output port. Looking at the laser beam may damage your vision.

#### How to connect

- 1. Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- 2. Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.
- Set the "TV specker option Off" in the AUDIO menu. Refer to page 26.

See the external audio equipment instruction manual for operation.

#### **Monitor Out Setup**

- The set has a special signal output capability which allows you to hook up a second TV or monitor.

Connect the second TV or monitor to the set's MONITOR OUTPUT. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

**Note:** Digital, Component 1/2, RGB-PC/RGB-DTV, HDMI/DVI input sources cannot be used for Monitor out.



Owner's Manual 13



#### Installation



- HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing.
- This set can receive the High-Definition Multimedia Interface (HDMI) or Input of Digital Visual Interface(DVI).
- This set supports HDCP (High-bandwidth Digital Contents Protection) Protocol for the set (480p, 576p, 720p, 1080i) modes.
- When you connect to HDMI/DVI Source devices (DVD Player, STB or PC) that support AUTO HDMI/DVI Plug & Play, this sets the HDMI/DVI source devices automatically.

Afer reading HDMI/DVI source devices, using Display Data Channel (DDC) Protocol, Extended Display Identification Data (EDID) stored in the set is used.

- If HDMI/DVI Source devices do not support AUTO HDMI/DVI, the resolution is set manually.
- When Source Devices have DVI Output Connector, you must connect audio with separated cable.(Refer to <How to connect>)

#### How to connect

- 1. When Source Devices (DVD Player or Set Top Box) support HDMI.
- If Source Devices have HDMI Output Connector, Source Devices connect to the set with HDMI Cable .(not supplied with the product).
- Because HDMI sends Digital Video and Audio with one cable, there is no need for Audio Cable when using HDMI Cable.
- 2. When Source Devices (DVD Player or Set Top Box) supports DVI.
- If Source Devices have DVI Output Connector, Source Devices connect to the set with HDMI to DVI Cable (not supplied with the product).
- In this case, Audio use other cable. When Source Devices have Analog Audio Output Connector, Audio input for RGB/DVI of the set connect to Audio Cable (not supplied with the product). And then you can listen to normal Audio.
- 3. When PC supports DVI.
- If PC has a DVI Output Connector, Source Devices connect to the set with HDMI to DVI Cable (not supplied with the product).
- If the graphics card on the PC does not output analog RGB and DVI simultaneously, connect only one of either RGB Input or HDMI/DVI Input to display the PC on the set.
- If the graphics card on the PC does output analog RGB and DVI simultaneously, connect to either RGB Input or HDMI/DVI Input to display the PC on the set; (the other mode is set to Plug and Play automatically by the set.)
- Then, make the corresponding audio connections. If using a sound card, adjust the PC sound as required.
- In this case, Audio use other cable. When PC (or sound card of PC) have Analog Audio Output Connector, Audio input for RGB/DVI of the set connect to Analog Audio Cable (not supplied with the product). And then you can listen to normal Audio.

#### Reference

Cable sample



HDMI Cable (not supplied with the product)



HDMI to DVI Cable (not supplied with the product)



Analog Audio Cable (RCA type) (not supplied with the product)



Analog Audio Cable (Stereo to RCA type) (not supplied with the product)

#### How to use

- 1. Connect the HDMI/DVI Source Devices(DVD Player or Set Top Box or PC) and the set.
- 2. Turn on the display by pressing the POWER button on the set and HDMI/DVI Source Devices remote control.
- 3. Select HDMI/DVI Input source in Main Input option of SPECIAL menu.
- 4. Check the image on your set. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI/DVI Source Devices. If noise is present, change the HDMI/DVI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not changed, change the PC graphics card or consult the manufacturer of the PC graphics card.

#### Notes:

- Depending on the graphics card, DOS mode may not work if you use a HDMI to DVI Cable.
- Avoid keeping a fixed image on the set screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible.
- When Source Devices connected HDMI/DVI Input output the set Resolution(480p, 720p, 1080i), the set Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI/DVI Source Devices or contact your service centre.
- In case of HDMI/DVI Source Devices are not connected, Cable or poor cable connection, "No Signal" OSD display in HDMI/DVI Input. And In case of Video Resolution not supported when output is HDMI/DVI Source Devices, "Invalid format" OSD display. Refer to the Manual of HDMI/DVI Source Devices or contact your service centre.

### Accessories



#### Joining the set assembly to the wall to protect the set tumbling

- Secure the set assembly by joining it to a wall by using the TV (or Eye Bolts)/Wall brackets.



 If the set will be mounted on a desk top, insert the 2-Eye Bolts (or 2-TV bracket bolts with 2-TV brackets) and tighten them securely in the upper holes as shown.

Install the wall brackets on the wall with bolts, (not supplied with the product), as shown.

Match the height of the TV brackets (or Eye Bolts) and the wall brackets. Check to be sure the brackets are tightened securely.

 Secure the TV assembly to the wall with strong strings or wound wire cables, (not supplied with the product), as shown.

#### **Optional Extras**

- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contract your dealer for buying these items.



3

16 PLASMA HDTV

### **Installation Options**

- The set can be installed in different ways such as on a wall, or on a desktop etc.
- Install this set only in a location where adequate ventilation is available.



 The set can be installed on a wall as shown above. (For further information, refer to the optional 'Wall Mounting Bracket Installation and Setup Guide'.)

#### To Mount on a Wall

Wall mount minimum allowable clearances for adequate ventilation.



**Desktop Pedestal Installation** 



• The set can be mounted on a desk as shown above.

#### To Install on a Desktop

Pedestal mount minimum allowable clearances for adequate ventilation.



#### Install the RING SPACER with the bolts on the set as shown.



 Put the RING SPACER in the holes of the bolts before connecting to the wall mounting bracket.



2. When you connect the wall mounting bracket to the set, connect to it by using the bolts, (supplied with the product), as shown.

#### Swivel function (option)



• After installing the set, you can adjust the set manually to the left or right direction by 20 degrees to suit your viewing position.

**Note :** Before adjusting the angle, you must loosen (to the left) the shaft bolt on the middle of stand's back. And when the stand is level with set, you must close (to the right) the shaft bolt to set the hole.

### Turning on the Set

- When using the remote control, aim it at its sensor on the set.

Turning on the set just after installation

- 1. Connect power cord correctly, the set is switched to standby mode.
- 2. Press the <sup>⊕</sup> / I, INPUT or PR ▲ / ▼ button on the set or press the POWER, D/A TV, INPUT, PR ▲ / ▼ or NUMBER buttons on the remote control and then the set will switch on.

#### Initializing setup



If the OSD (On Screen Display) is displayed on the screen as figure after turning on the set, you can adjust the Auto Programme tuning, Time Zone selection or Password setting.

**Note:** It will automatically disappear after approx. 40 seconds unless a button is pressed.

Turning on the set (power cord is still connected)

If the set was turned off with the remote control power button and the  $\oplus$  / I button on the set

Press the <sup>(†)</sup> / I, INPUT or PR ▲ / ▼ button on the set or press the POWER, D/A TV, INPUT, PR ▲ / ▼ or NUMBER button on the remote control to turn the set on.

### Programme selection

You can select a programme number with the **PR** ▲ / ▼ or NUMBER buttons.

### Volume adjustment

Press the VOL ▲ / ▼ button to adjust the volume.

### **Mute function**

Press the **MUTE** button. The sound is switched off and the display  $\blacksquare$  appears. You can cancel it by pressing the **MUTE**, **VOL**  $\blacktriangle$  /  $\triangledown$ , **I/II** button.

### **Channel Menu Options**

#### Auto Programme Tuning

- Up to 100 TV stations can be stored in this set by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the **PR** ▲ / ▼ or NUMBER buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.
- In Digital mode up to 400 TV stations can be stored.
  - 1. Press the **MENU** button and then ▲ / ▼ button to select the SETUP menu.
  - Press the ► button and then ▲ / ▼ button to select Auto programme.
  - Press the ► button to select Storage from. Select the beginning programme number with the ▲ / ▼ button or NUMBER buttons on the Storage from menu.
  - 4. Press the ► button to select To start.
  - Press the ► button to begin auto programming. All receivable stations are stored.

Option: In Australia, if no station name can be assigned to a station,

the channel number is assigned and stored as ----- followed by a number see 'Assigning a station name' section to assign the station name.

To stop auto programming, press the **MENU** button.

When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme Edit' section to edit the stored programme.

6. Press the EXIT button to return to normal TV viewing.

#### Note :

- a. To begin auto programming or manual programming, input a 4-digit password in Lock system. Be sure to remember this number!
- b. If you forgot your password, press '7', '7', '7', '7' on the remote control handset.





#### Manual Programme Tuning (In Digital mode)

- Manual programme lets you manually add a programme to your programme list.

- Press the MENU button and then ▲ / ▼ button to select the SETUP menu.
- Press the ▶ button and then ▲ / ▼ button to select Manual programme.
- Press the ► button to select the desired channel number with the ▲ / ▼ button.

When the programme is stored, the **Programme edit** menu appears on the screen. See the 'Programme Edit' section to edit the stored programme.

4. Press the EXIT button to return to normal TV viewing.



### **Channel Menu Options**

#### Manual Programme Tuning (In Analogue mode)

- Manual programme lets you manually tune and arrange the stations in whatever order you desire. Also you can assign a station name with five characters to each programme number.
  - Press the MENU button and then ▲ / ▼ button to select the SETUP menu.
  - Press the ▶ button and then ▲ / ▼ button to select Manual programme.
  - Press the ► button to select Band. Press the ▲ / ▼ button to select V/UHF or Cable as required.
  - Press the ▶ button to select Channel. Select the desired channel number with the ▲ / ▼ button.
  - Press the ► button to select Search. Press the ▲ /▼ button to commence searching. If a station is found the search will stop.
  - If this station is the one required, press the ◄ / ► button to select Storage. Select the desired programme number with the ▲ / ▼ button.
  - 7. Press the OK button to store it.
  - 8. To store another station, repeat steps 3 to 7.
  - 9. Press the EXIT button to return to normal TV viewing.

#### Assigning a station name (In Analogue mode only)

- 1. Repeat the 'Manual programme tuning' steps 1 to 2.
- 2. Press the  $\blacktriangleright$  button to select Name.
- 3. Press the  $\blacktriangle$  button. You can use a blank, +, -, the numeric 0 to 9 and the alphabet A to Z.
- With the ▼ button you can select in the opposite direction.
- 4. Select the next position by pressing the ▶ button and then make your choice of the second character, and so on.
- 5. Press the OK button.
- 6. Press the EXIT button to return to normal TV viewing.

#### Fine tuning (In Analogue mode only)

- Normally fine tuning is only necessary if reception is poor.
  - 1. Repeat the 'Manual programme tuning' steps 1 to 2.
  - 2. Press the ► button to select Fine.
  - 3. Press the ▲ / ▼ button to fine tune for the best picture and sound.
  - 4. Press the OK button.
  - Press the EXIT button to return to normal TV viewing. The finely tuned programme will be indicated by a yellow number during programme selection.



#### Booster

- If the reception is poor at the fringed area of TV signal, select **Booster** to **On**. When the picture condition is good, do not select **Booster** to **On**.
  - 1. Press the MENU button and then ▲ / ▼ button to select the SETUP menu.
- 2. Press the ► button and then ▲ / ▼ button to select Booster.
- 3. Press the ▶ button and then ▲ / ♥ button to select **On** or **Off** on the **Booster** pull-down menu.
- 4. Press the EXIT button to return to normal TV viewing.



#### Digital signal strength (In Digital mode only)

- Reveals how strong your Digital signal is and whether you need to adjust your antenna.
- The higher the signal strength, the less likely you are to experience picture degradation.
- Digital signals; May not be available in all areas, nor broadcast all programmes.
  - 1. Press the **MENU** button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select the SETUP menu.
  - Press the ► button and then ▲ / ▼ button to select Signal strength.
     View the on-screen signal strength monitor to see the quality of the signal being received.

#### Front display

- You can switch Front Display on or off.
  - 1. Press the **MENU** button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select the SETUP menu.
  - 2. Press the ► button and then ▲ / ▼ button to select Front display.
  - Press the ► button and then ▲ / ▼ button to select On or Off on the Front display pull-down menu.

When you select **On** mode, The Front Display illuminates brightly.

4. Press the **EXIT** button to return to normal TV viewing.



#### Logo light

- This function is only applied to 60PY2D model.
  - 1. Press the **MENU** button and then ▲ / ▼ button to select the SETUP menu.
  - 2. Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select Logo light.
  - Press the ► button and then ▲ / ▼ button to select On or Off on the Front display pull-down menu.

When you select **On**, The light for the Logo is on.

4. Press the **EXIT** button to return to normal TV viewing.



## Channel Menu Options

#### Programme Edit

- This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or copy a blank station data into the selected programme number.
  - Press the MENU button and then ▲ / ▼ button to select the SETUP menu. 1.
  - Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select **Programme edit**. 2.
  - 3. Press the ▶ button to display the Programme edit menu.

#### Deleting a programme (In Analogue mode only)

- 1. Select a programme to be deleted with the ▲ / ▼ or ◀ / ► button.
- Press the **RED** button twice. 2.
  - The selected programme is deleted, all the following programmes are shifted up one position.

#### Copying a programme (In Analogue mode only)

- Select a programme to be copied with the  $\blacktriangle$  /  $\blacktriangledown$  or  $\blacktriangleleft$  /  $\triangleright$  button.
- Press the GREEN button. 2.
- З. Move the programme to the desired programme number with the  $\blacktriangle$  /  $\blacktriangledown$  or  $\triangleleft$  /  $\triangleright$  button.
- Press the GREEN button again to move the programme. 4.
- All the following programmes are shifted down one position.

#### Moving a programme (In Analogue mode only)

- 1. Select a programme to be moved with the ▲ / ▼ or ◄ / ► button.
- Press the YELLOW button. 2
- З. Move the programme to the desired programme number with the  $\blacktriangle$  /  $\blacktriangledown$  or  $\triangleleft$  /  $\triangleright$  button.
- 4. Press the YELLOW button again to release this function.

#### Skipping a programme number

- Select a programme number to be skipped with the  $\blacktriangle$  /  $\triangledown$  or  $\blacktriangleleft$  /  $\blacktriangleright$  button.
- 2. Press the BLUE button. The skipped programme turns to blue.
- Press the **BLUE** button again to release the skipped programme.
- When a programme number is skipped it means that you will be unable to select it using the PR A / V button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or table menu.

#### Selecting favourite programme

Select your favourite programme number by pressing ▲ / ▼ or ◄ / ► buttons and then press the **FAV** button. It will automatically include the selected programme into your favourite programmes list and a heart-mark will appear in front of that programme number. You can store up to 10 programmes.

Repeatedly press the FAV button to select stored favourite programmes in normal TV viewing.

#### Calling up the Programme Table

You can check the programmes stored in the memory by displaying the programme table.

#### **Displaying programme table**

Press the LIST button to display the Programme table menu. The programme table appears on the screen.

Note :

You may find some blue highlighted programmes shown. They have been set up in the programme edit mode. а.

Some programmes with the channel number shown in the programme table indicate there is no station name assigned. b.

Selecting a programme in the programme table Select a programme with the  $\land / \lor$  or  $\blacktriangleleft / \triangleright$  button.

The set switches to the chosen programme number.

Paging through a programme table Pressing the PR ▲ / ▼ button changes current page into previous/next page.

Press the LIST button to return to normal TV viewing

### **Picture Menu Options**

#### **PSM (Picture Status Memory)**

- This function adjusts the set to the best picture appearance.
- When adjusting picture options (contrast, brightness, colour, sharpness and tint) manually, PSM is automatically changed to **User**.
- Press the MENU button and then ▲ /▼ button to select the PICTURE menu.
- 2. Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select **PSM**.
- 3. Press the ► button and then ▲ / ▼ button to select Dynamic, Standard, Mild, Game or User.
- 4. Press the **OK** button.
- 5. Press the **EXIT** button to return to normal TV viewing.
- Picture options Dynamic, Standard, Mild and Game are preset and programmed for good picture quality at the factory and cannot be changed.

🐙 SETUP	PSM	► <b>√</b> Dynamic
	Contrast Brightness	Standard Mild
audio	Colour Sharpness	Game User
	Tint Colour temp.	
	Video preset	
C LOCK	Prev.	

#### **Picture adjustment**

- You can adjust picture contrast, brightness, colour intensity, sharpness and tint (NTSC AV, COMPONENT 60Hz, RGB/HDMI/DVI-DTV 60Hz, RGB/HDMI/DVI-PC mode only) to the levels you prefer.
- 1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
- 2. Press the ► button and then ▲ / ▼ button to select the desired picture item.
- Press the ► button and then ◄ / ► button to make appropriate adjustments, then it will be stored for the picture User.
- 4. Press the OK button.
- 5. Press the EXIT button to return to normal TV viewing.

**Note :** The adjustment for PICTURE menu (contrast, brightness, colour, sharpness and tint) affect both the main and sub picture in PIP or Twin Picture mode.

4	SETUP			
	PICTURE	Contrast	1004	► T
6	AUDIO			
Ø	TIME			
ð	SPECIAL			
Ô	LOCK			

#### **Adjusting Auto Colour Control**

- Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to see less intense colours with more blue.
  - 1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
  - 2. Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select Colour temperature.
  - Press the ► button and then use ▲ / ▼ button to select the desired colour temperature.
  - 4. Press the OK button.
  - 5. Press the EXIT button to return to normal TV viewing.



# **Picture Menu Options**

#### Video preset

- Use to quickly reset all the picture menu options to their original factory preset values.

#### **APM (Adaptive Picture Mode)**

- Allows a viewer to select their preferred picture mode after compairing the four different picture (**Dynamic**, **Standard**, **Mild** and **User**) settings.
  - Press the APM button at once. As shown , the screen is divided to 4split.
  - 2. Use the  $\blacktriangle$  /  $\bigtriangledown$  /  $\blacklozenge$  /  $\blacklozenge$  button to navigate 4 Demo Pictures.
  - 3. By pressing the OK button, you can select the desired mode.
  - 4. Press the **EXIT** button to return to normal TV viewing.

#### Note:

- a. While operating the 4-split, any button except **APM**, **OK**, **EXIT**, **MUTE** button on the remote control are not available.
- b. APM screen will automatically disappear after approx. 40 seconds unless a button is pressed.



### Audio Menu Options

#### SSM (Sound Status Memory)

- This function lets you enjoy the best sound without any special adjustment because the set has the appropriate sound option based on the programme content. When adjusting sound options (treble and bass) manually, SSM is automatically changed to **User**.
- 1. Press the MENU button and then ▲ / ▼ button to select the AUDIO menu.
- 2. Press the ► button and then ▲ / ▼ button to select SSM.
- 3. Press the ▶ button and then ▲ / ▼ button to select Standard, Music, Movie, Sports or User.
- 4. Press the **OK** or **◄** button.
- 5. Press the EXIT button to return to normal TV viewing.
- ٠ The sound Standard, Music, Movie and Sports are programmed for good sound reproduction at the factory and cannot be changed.

🚀 SETUP	SSM >	⊀ Standard
	AML	Music
	Balance	Movie
audio	Treble	Sports
@	Bass	User
	Front surround	
🥜 SPECIAL	TV speaker	
A	BBE	
LOCK	CINID Ports.	

#### AVL (Auto Volume Leveler)

- If you select AVL On, the set automatically keeps on an equal volume level even if you change programmes.
  - 1. Press the MENU button and then ▲ / ▼ button to select the AUDIO menu.
  - 2. Press the ► button and then ▲ / ▼ button to select AVL.
  - 3. Press the ▶ button and then ▲ / ▼ button to select On or Off on the AVL pull-down menu.
  - 4. Press the **OK** or **◄** button.
  - 5. Press the EXIT button to return to normal TV viewing.



#### Sound adjustment

- 1. Press the MENU button and then ▲ / ▼ button to select the AUDIO menu.
- Press the ► button and then use ▲ / ▼ button to select the desired sound item.
- 3. Press the ► button and then use < / ► button to make appropriate adjustments.
- 4. Press the OK button.
- 5. Press the EXIT button to return to normal TV viewing.



#### Front surround

- 1. Press the MENU button and then ▲ / ▼ button to select the AUDIO menu.
- Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select Front surround.
- 3. Press the ▶ button and then ▲ / ▼ button to select Off or SRS TruSurround XT on the Front surround pull-down menu.

#### SRS TruSurround XT

Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement that produces an immersion sound experience from standard stereo material.

- 4. Press the OK button.
- 5. Press the EXIT button to return to normal TV viewing.

SRSCO is a trademark of SRS Labs, Inc.

TruSurround XT technology is incorporated under license from SRS Labs, Inc.



# **Audio Menu Options**

#### Speaker adjustment

- You can adjust internal speaker status.
  - Press the MENU button and then ▲ / ▼ button to select the AUDIO menu.
  - 2. Press the ▶ button and then ▲ / ▼ button to select **TV speaker**.
  - 3. Press the ► button and then ▲ / ▼ button to select **Off** or **On** on the **TV speaker** pull-down menu.
  - 4. Press the OK button.
  - 5. Press the **EXIT** button to return to normal TV viewing.

**Note :** In AV, Component, RGB-PC/DTV and HDMI/DVI mode, internal speaker audio can be outputted even though there is no video signal.

🚀 SETUP	SSM	
	AVL	
	Dalance	
🔏 AUDIO	Treble	
(A)	Dan	
U TIME	Front surround	
🖋 SPECIAL	TV speaker ►	von
	BBE	On
COCK	спо Риск.	

#### BBE

- BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.

- Press the MENU button and then ▲ / ▼ button to select the AUDIO menu.
- 2. Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  /  $\blacktriangledown$  button to select **BBE**.
- 3. Press the ► button and then use ▲ / ▼ button to select On or Off.
- 4. Press the **EXIT** button to return to normal TV viewing.

**BBE.** Manufactured under license from BBE Sound, Inc.



#### Sound output selection

- You can select output sound for the left and right loudspeakers.

This function works in the following mode

#### AV 1/2, Component 1/2, RGB-PC/DTV or HDMI/DVI

Repeatedly press the I/II button to select the sound output.

- L+R : Audio signal from audio L input is sent to the left loud speaker and audio signal from audio R input is sent to the right loud speaker.
- **L+L**: Audio signal from audio L input is sent to left and right loud-speakers.
- $\mathbf{R}+\mathbf{R}$ : Audio signal from audio R input is sent to left and right loud-speakers.
- Repeatedly press the I/II button to change the audio mode (MPEG or DOLBY DIGITAL) in Digital mode.

Stereo reception (In Analogue	e mode only)
Broadcast	On Screen Display
Mono	MONO
Stereo	MONO / STEREO

#### Mono sound selection

In stereo reception if the stereo signal is weak, you can switch to mono by pressing the I/II button twice. In mono reception the depth of sound is improved. To switch back to stereo, press the I/II button twice again.

### **Time Menu Options**

#### Auto clock setup

- The time is automatically set from a digital channel signal.
- The digital channel signal includes information for the current time provided by the broadcasting station.
- Set the clock manually, if the current time is set incorrectly by the auto clock function.
- 1. Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.
- 2. Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select Auto clock.
- 3. Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select **On**.
- 4. Press the ► button and then ▲ / ▼ button to select your viewing area time zone; NSW/ACT, NT, TAS, WA, SA, QLD, or VIC.
- 5. Press the **OK** or **◄** button.
- 6. Press the EXIT button to return to normal TV viewing.



#### Manual clock setup

- If current time setting is wrong, reset the clock manually.
  - Press the MENU button and then ▲ / ▼ button to select the TIME menu.
  - 2. Press the ► button and then ▲ / ▼ button to select Manual clock.
  - Press the ► button and then ◄ / ► button to select among the year, date, or time option.
  - Once selected, use the  $\blacktriangle$  /  $\blacktriangledown$  button to set year, date, and time options.
  - 4. Press the **OK** or **◄** button.
  - 5. Press the EXIT button to return to normal TV viewing.



#### Setting the On/Off time

- Timer function operates only if current time has been already set.
- Off Time function overrides on Time function if they are set to the same time.
- The set must be in standby mode for the On Time to work.
- Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
  - 1. Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.
  - Press the ► button and then use ▲ / ▼ button to select Off time or On time.
  - Press the ► button and then use ▲ / ▼ button to select On. To cancel On/Off time function, select Off.
  - 4. Press the ► button and then use ▲ / ▼ button to adjust the hour.
  - 5. Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  /  $\blacktriangledown$  button to adjust the minute.
  - Only On time function; Press the ► button and then use ▲ / ▼ button to adjust programme number or volume level.
  - 7. Press the OK or ◄ button.
  - 8. Press the **EXIT** button to return to normal TV viewing.



# **Time Menu Options**

#### Sleep timer

- You don't have to remember to switch the set off before you go to bed. The sleep timer automatically switches the set to standby after the preset time elapses.
  - 1. Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.
  - 2. Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select Sleep timer.
  - 3. Press the ► button and then ▲ / ▼ button to select a timer setting on the Sleep timer pull-down menu.
  - Press the OK or < button.</li>
  - 5. Press the EXIT button to return to normal TV viewing.

V SETUP	Auto dock Manual dock Off time On time Sieep timer	viOff 10 Min 20 Min 30 Min 60 Min
SPECIAL	Auto sleep	90 Min 120 Min 180 Min 240 Min

Press the **SLEEP** button to select the number of minutes. The display will appear on the screen, followed by **10**, **20**, **30**, **60**, **90**, **120**, **180** and **240**. The timer begins to count down from the number of minutes selected.

#### Note :

- a. To view the remaining sleep time, press the SLEEP button once.
- b. To cancel the sleep time, repeatedly press the SLEEP button until the display OSleep timer Off appears.
- c. When you switch the set off, the set releases the preset sleep time.

#### Auto sleep

- If there is no input signal, the set will turn off automatically after 10 minutes.
  - Press the MENU button and then ▲ / ▼ button to select the TIME menu.
  - 2. Press the ► button and then ▲ / ▼ button to select Auto sleep.
  - 3. Press the  $\blacktriangleright$  button and then  $\blacktriangle$  /  $\blacktriangledown$  button to select **On** or **Off**.
  - 4. Press the **OK** or **◄** button.
  - 5. Press the EXIT button to return to normal TV viewing.



### **Special Menu Options**

#### Main Picture Source Selection

- Inputs can be set for TV, AV, Component, RGB-PC (DTV) or HDMI/DVI mode. AV mode is used when a video cassette recorder (VCR), or other equipment is connected to the set.

**Note :** When a VCR is connected via the aerial socket the set is used in TV mode. See the 'External Equipment Viewing Setups' section.

- 1. Press the **MENU** button and then use ▲ / ▼ button to select the SPECIAL menu.
- 2. Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  /  $\blacktriangledown$  button to select Main input.
- Press the ▶ button and then use ▲ / ▼ button to select Digital, Analogue, AV 1, AV 2, Component 1, Component 2, RGB-PC (or RGB-DTV), HDMI/DVI.

AV 1 : VCR connected to the **A/V INPUT 1** sockets of the set AV 2 : VCR connected to the **A/V INPUT 2** sockets of the set Component1/2 : DVD connected to the **DTV/DVD INPUT** sockets on the back of set RGB-PC/DTV : PC or SET TOP box connected to the **RGB INPUT** sockets on the back of set

HDMI/DVI : PC or SET TOP box connected to the HDMI/DVI INPUT sockets on the back of set

- 4. Press the **OK** or **◄** button.
- 5. Press the EXIT button to return to normal TV viewing.

Alternatively you can select the **Digital**, **Analogue**, **AV 1**, **AV 2**, **Component 1**, **Component 2**, **RGB-PC** (or **RGB-DTV**) or **HDMI/DVI** mode by pressing the **INPUT** button.

Press the D/A TV button to select digital or analogue mode.

#### Subtitle (In Digital mode only)

- Press the MENU button and then use ▲ / ▼ button to select the SPECIAL menu.
- 2. Press the ► button and then use ▲ / ▼ button to select Subtitle.
- Press the ► button and then use ▲ / ▼ button to select On or Off on the Subtitle pull-down menu.
- 4. Press the **OK** or **◄** button.
- 5. Press the EXIT button to return to normal TV viewing.

You can select Subtitle on or off with the TEXT button in Digital mode.





# **Special Menu Options**

#### Child Lock

- The TV can be set so that the remote control handset is needed to control it. This feature can be used to prevent unauthorized viewing.
  - 1. Press the **MENU** button and then use ▲ / ▼ button to select the SPECIAL menu.
  - 2. Press the ► button and then use ▲ / ▼ button to select Child lock.
  - 3. Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  /  $\blacktriangledown$  button to select **On** or **Off**.
  - 4. Press the **OK** or **◄** button.
  - 5. Press the EXIT button to return to normal TV viewing.

With the lock on, the display **Child lock : On** appears on the screen if any button on the front panel is pressed while viewing the TV.

**Note :** The display Child lock : On will not appear on the screen if any button on the front panel is pressed while displaying the menus.



#### Picture format

- You can watch TV in various picture formats; Auto, 4:3, 16:9 (Wide), 14:9, Zoom and Cinema zoom.
- You can repeatedly press the ARC button to select your desired picture format.
- You can also select your desired picture format in the SPECIAL menu.

#### Note:

- a. You are available to 4:3 and 16:9 in HDMI/DVI-PC and RGB-PC mode.
- b. Auto: When your TV receives the wide screen signal, it will be automatically changed to the picture format to be sent. (Not available in all countries)
- c. You can adjust the enlarge proportion of Cinema Zoom using ▲ / ▼ button. The adjustment range is 1 ~ 16.
- d. You can adjust the enlarge proportion of Zoom using ▲ / ▼ button. The adjustment range is -16 ~ +16.
- e. You can adjust the enlarge proportion of 14:9 using ▲ / ▼ button. The adjustment range is -10 ~ +10.



#### Cinema

- When you watch the movie, this function adjusts the set to the best picture appearance.
- This function works in AV 60Hz, Component 480i mode.
  - Press the MENU button and then use ▲ / ▼ button to select the SPECIAL menu.
  - 2. Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  /  $\blacktriangledown$  button to select **Cinema**.
  - 3. Press the ► button and then use ▲ / ▼ button to select On or Off.
  - 4. Press the **OK** or **◄** button.
  - 5. Press the EXIT button to return to normal TV viewing.



#### Auto Demo

- Shows you how to navigate the set's on-screen menus.
- Auto demo : Use to scan the features and menu options available on your set.
  - 1. Press the **MENU** button and then use ▲ / ▼ button to select the SPECIAL menu.
  - 2. Press the ▶ button and then use ▲ / ▼ button to select Auto Demo.
  - 3. Press the ► or **OK** button to start Auto Demo.
  - 4. Press the EXIT button to stop Auto Demo.



#### ISM (Image Sticking Minimization) Method

- Frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in a ghost
  image remaining even when you change the image. Avoid allowing a fixed image to remain on the set's screen for
  a long period of time.
  - Press the MENU button and then use ▲ / ▼ button to select the SPECIAL menu.
  - Press the ► button and then use ▲ / ▼ button to select ISM Method.
  - Press the ► button and then use ▲ / ▼ button to select either Normal, Orbiter, Inversion or White wash.
     If you don't need to set this function, set Normal.
    - White wash :

White Wash removes permanent images from the screen.

Note: An excessive permanent image may be impossible to clear

entirely with White Wash.

Orbiter :

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

Note: There might be a noise on the screen outline in HDMI/DVI-PC mode.

• Inversion :

This is the function to invert the panel colour of the screen. The panel colour is automatically inverted every 30 minutes.

4. Press the EXIT button to return to normal TV viewing.

#### Low Power

- This is the function to reduce the power consumption of the set.
  - 1. Press the **MENU** button and then use ▲ / ▼ button to select the SPECIAL menu.
  - 2. Press the ► button and then use ▲ / ▼ button to select Low power.
  - 3. Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  /  $\blacktriangledown$  button to select **On** or **Off**.
  - 4. Press the **EXIT** button to return to normal TV viewing.





# **Lock Menu Options**

#### Lock setup

- Lets you set up blocking schemes to block specific channels, ratings, and external viewing sources.
- A password is required to gain access to this menu.
  - Press the MENU button and then use ▲ / ▼ button to select the LOCK menu. Then, press the ► button to enter the password as requested.
    - The TV is set up with the initial password "0-0-0-0".
  - Use the ▲ / ▼ button to choose from the following Lock menu options. Once the option is selected, change the settings to your preference.

#### Lock system

Activates or disables the blocking scheme you set up previously. Set password Change the password by inputting a new password twice. Block programme Blocks any programmes that you do not want to watch or that you do not want your children to watch. Parental guidance (In Digital mode only) Prevents children from watching certain adult's TV programmes, according to the ratings limit set. Aux. block

Enables you to select a source to block from the external source devices you have hooked up.

- 4. Press the **OK** or **◄** button.
- 5. Press the EXIT button to return to normal TV viewing.

Note : If you forgot your password, press '7', '7', '7', '7' on the remote control handset.



### PIP (Picture-In-Picture) / POP / Twin Picture

#### **Option** :

PIP (Picture in Picture) displays a picture within a picture.

#### On and off

- Press the PIP button to switch on the sub picture.
- Press EXIT button to switch it off.
- Each press of PIP button changes the screen display as shown below.



#### Note :

- a. When the sub picture size is 1/2 of the main picture, the picture quality might get poor.
- b. The motion of the sub picture can be unnatural because the set displays full screen by synchronizing the main picture source when the refresh rate between the main picture source and the sub picture source is different in PIP mode.

#### Input mode selection for sub picture

Press the **PIP INPUT** button to select the input mode for the sub picture.

Each time this button is pressed, each input mode for the sub picture is displayed as shown below.



Main Picture Source	Available Sub Picture Source
Digital	Analogue, AV1/2
Analogue	Digital, AV1/2
AV1/2, Component1/2,	Digital Analogue AV/1/2
RGB, HDMI/DVI	Digital, Analogue, AV1/2

**Note :** When the PIP function is switched on, you can also adjust it in the Special menu.

#### Adjusting main and sub picture sizes for Twin Picture

Use the  $\blacktriangle$  /  $\blacktriangledown$  /  $\blacklozenge$  /  $\blacktriangleright$  button to change main and sub picture sizes in Twin Picture mode.

#### POP (Picture-out-of-Picture: Channel Scan)

- Use POP to search the programmes of all the memorized channels one-by-one on the 3 PIP screen display, (while the main picture source remains the current channel). The pictures of all the programmed channels are searched with the 3 POP screen.

#### Sub picture position change

In PIP mode, press the  $\blacktriangle$  /  $\checkmark$  /  $\checkmark$  /  $\blacktriangleright$  button to move the sub picture to a different location on the screen.

#### Programme selection for sub picture

The sub picture programme selection is available when the sub picture is TV mode. Press the **PIP PR +/-** buttons to select a programme for the sub picture.

#### Swapping between main and sub picture

Press the **SWAP** button to exchange the main and sub picture.

**Note :** When the main picture is Digital, Analogue or AV modes, the swapping is available.

# **Teletext** (option)

- Teletext (or TOP text) is an optional function, therefore only a set with the teletext system can receive the teletext broadcast.
- Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.
- The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

#### Switch on/off

Press the TEXT button to switch to teletext.

If TV and text picture are displayed half and half of the screen, press the **TEXT** button again to display text picture fully.

The initial page or last page appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the TEXT button to switch off teletext. The previous mode reappears.

#### SIMPLE Text (option)

#### Page selection

- 1. Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then reenter the correct page number.
- 2. The ▲ / ▼ button can also be used to select the preceding or following page.

#### TOP text (option)

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 indicates the next block.

#### Block / group / page selection

- 1. With the blue button you can progress from block to block.
- 2. Use the yellow button to proceed to the next group with automatic overflow to the next block.
- 3. With the green button you can proceed to the next existing page with automatic overflow to the next group.
  - Alternatively the 🔺 button can be used.
- 4. The red button permits to return to previous selection. Alternatively the ▼ button can be used.

#### **Direct page selection**

Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

#### FASTEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

#### Page selection

- 1. Press the I button to select the index page.
- You can select the pages which are colour coded along the bottom line with the same 2. coloured buttons.
- Corresponding to the SIMPLE teletext mode, you can select a page by entering its 3. three digit page number with the NUMBER buttons in FASTEXT mode.
- 4 The  $\blacktriangle$  /  $\nabla$  button can be used to select the preceding or following page.

#### **Special Teletext Functions**

### **≣**? REVEAL

Press this button to display concealed information, such as solutions of riddles or puzzles.

Press this button again to remove the information from the display.

#### [≡ŧ] SIZE

Selects double height text.

Press this button to enlarge the top half of the page.

Press this button again to enlarge the bottom half of the page.

Press this button again to return to the normal display.

### 

Displays the TV picture on the screen while waiting for the new teletext page. Press this button to view the updated teletext page.

### EI STILL

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inhibited.

To continue press this button again.



Displays the teletext pages superimposed on the TV picture. To switch the TV picture off press this button again. Note : When TV and text picture are displayed half and half of the screen, MIX function is not available.



This button has two functions:

a) When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. b) In teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/ GREEN or ▲ / ▼ buttons. Press this button again to exit this function.

### EPG (Electronic Programme Guide) (In Digital mode only)

#### EPG (Electronic Programme Guide) (In Digital mode only)

- This function can be used only when the EPG information is broadcast by broadcasting companies.
- This system has an Electronic Programme Guide (EPG) to help your navigation through all the possible viewing
  options.
- The EPG supplies information such as programme listings, start and end times for all available services.
- In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).

#### Switch on/off EPG

- 1. Press the GUIDE button to switch on EPG.
- 2. Press the GUIDE button again to switch off EPG and return to TV viewing.

11 TEN Digital The story of the tragedies, triump industry.	4:30PM~4:59PM 📟 00 🛦 glamerous ferrester family: the hs and struggles for power in :	r loves, the fashion
τv	NOXA	NEXT
11 TEN Digital	The Beld And The Beesti	TEN News
	The Bold And The Beauti	TEN News
13 TEN Digital 1	No Information	No Information
14 TEN Digital 2	No Information	No Information
15 TEN Digital 3	No Information	No Information
	No Information	No Information

#### Select a programme

Press the ▲ / ▼, ◄ / ► button to select desired programme, then press the OK button to display the selected programme.



#### Colour button operation

RED	shows the TV or Radio programmes
GREEN	the detail information on or off

# Xstudio

- You can use the JPEG and MP3 file by memorizing to Memory card in XSTUDD mode.

#### Notes on Memory Card

When removing or handling the memory card, use only your hands. Do not use other devices or the memory card may be damaged.

#### **Memory Card**

This is a device equipped to communicate the data between AV external equipment. It's used in a digital camera, camcorder, MP3 player, notebook or PDA.

#### Precaution for Using the Memory Card

- Please be sure to insert the correct memory card type in the right direction. (Confirm between the two memory slots before insertion.)
- Don't insert metal substances into the slots of the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After pulling the memory card out from the set, please keep the memory stick in an appropriate case to prevent it from static shock.
- The stored data may be changed or lost as a result of misuse or static electricity.
- Do not turn the power off while the memory card is in operation.
- Don't eject the memory card while in use. Otherwise, it may cause a data loss or card damage.
- Insert only one card into each slot.
- Static electricity and/or electrical noise has the potential to change or erase the stored data. Please take measures to avoid.
- This Company takes no responsibility for problems such as the damage or malfunction that occurs while using the set, inappropriate settings, or any other reasons, except for defects or malfunctions intrinsic to the product.
- Ensure to use a memory card that lists the manufacturers name and serial number.
- The manufacturer will not be responsible for any data damage. Making back up data is strongly recommended.
- Make sure to comply with the following steps when ejecting a memory card.
- Ensure each memory card has complied with standard.



#### Memory Card type

- Use the specified card based on the slot location.
- 8 types of Memory Card can be used for this set.
- NTFS file system is not supported.



#### Available file in XSTUDID mode

A sort of file	Photo Image (JPEG)	Music File (MP3)	
Compatibility	*.jpg	*.mp3	
Memory card capacity	CF: 2GB Microdrive: 2GB CF Type I/II Magicstor: 2.2GB MMC: 256MB SD: 512MB - Some MagicStor Plus cards are	SMC: 128MB XD: 512MB MS: 128MB MS PRO: 1GB	
	An error may occur if you use a memory card with greater than the specified capacity.		
Unsupported or damaged file	Unsupported or damaged JPEG or MP3 files can cause errors. Do not try to change the file extension of unsupported file types to the file extension of supported file types.		

Playback speed can vary dependent on the card type.
You can assign 8 characters for the file speed of the

ters for the file name of the card. If the file name is longer than 8 characters, it will be truncated at 6 digits and "~1, 2, 3, and 4" will be appended to the 7-8th position.

#### The JPEG Decoding/The Image Preview Supplied Spec

	Compression Method		Colour format		
	Baseline	Progressive	ve 4:4:4 4:2:2 11:11:11 (Y, Cb, Cr) 12:11:11 (Y, Cb, Cr) 22:11:		4:2:0 22:11:11 (Y, Cb, Cr)
JPEG Decoding Support	0	Х	x	0	0
Image Display	Image	invalid format	invalid format	Image	Image
Preview Image Display	Display 🖪 when there is no thumbnail.	п	п	Display 🗖 when there is no thumbnail.	Display 🗖 when there is no thumbnail.

- If an error occurs when decoding the JPEG, "Corrupted file" is displayed on screen.

#### How to insert and eject the card

#### Inserting a Card

- 1. Insert the card into the Slot 1 and/or Slot 2 with the hand softly and slowly.
- 2. Press the **XETUDIC** mode. Press the **XETUDIC** mode.

#### • Ejecting a card

- 1. Press the M/C EJECT button on the remote control.
- 2. Press ▲ / ▼ button to Select the **Memory 1 Eject** or **Memory 2 Eject** based on the inserted card location.

If selecting **Cancel**, OSD will disappear.

3. Carefully remove the card.

Memory 1 Eject Memory 2 Eject Cancel

#### Notes:

- Screen saver will appear if you do not remove the card with the hand after operating the eject function.
- When entering the photo or music media at first, the **M/C EJECT** button will not work. It's possible to use the **M/C EJECT** button while using the photo or music media.



Caution: Press the M/C EJECT button on remote control before removing the memory card. Failure to do so may damage the card.



\* In this manual, the OSD (On Screen Display) may be different from your set's because it is just an example to help you with the set operation.

#### Select the Photo or Music Media

- When you plug a memory card or press the **x** button, the below screens will be displayed.

Please select w	here to move
Memory 1	MS/Pro
Photo	Music
Memory 2	CF/MD
n Photo	Music
	XSTUDIO Exit

- 1. Press  $\blacktriangle$  /  $\bigtriangledown$  /  $\blacklozenge$  /  $\blacklozenge$  button to select photo or music for slot1/2.
- 2. Press the **OK** button to enter the photo or music media.
- 3. Press the **X**stune button to exit the **X**stune mode.

#### Notes:

- The OSD of the ejected card slot is inactivate when ejecting the card.
- If there is any error in a memory card, it's impossible to enter XSTUDIO mode.

#### JPEG File Viewing Options

- When you select Photo in entry menu, you will now see a screen filled with thumbnail photo media.
- \* In this manual, the OSD (On Screen Display) may be different from your set's because it is just an example to help you with the set operation.

#### **Screen Components**



**Direct Buttons** 

#### Photo Selection and PopUp menu

- Select your desired image file.



- 1. Insert the memory card to Slot 1 and/or Slot 2 on the set side panel.
- 2. Press the **Xerucia** button.
- 3. Use  $\blacktriangle$  /  $\bigtriangledown$  /  $\checkmark$  /  $\blacklozenge$  button to select photo media for slot1 or slot2.
- 4. Press the **OK** button to enter the photo media.
- Note: It's possible to display 15 JPEG files per page.
- 5. Press the ▲ / ▼ / ◀ / ► button to select JPEG file and then press the **OK** button.
- 6. Press the ▲ / ▼ button to select **View** and then press the **OK** button. The selected image will display over the entire screen.

#### Operation

JPEG File Viewing Options

#### Mark/Unmark for JPEG file

- You can mark/unmark the file to view the desired file or use slide show for desired file conveniently.
- The selected file displays orange in colour.
- When pressing the **OK** button after marking a file, the marked file displays green in colour.



#### ♦ Mark/Unmark for all files

- 1. In photo media, repeatedly press ◄ button to enter the menu on the left.
- 2. Press the  $\blacktriangle$  /  $\blacktriangledown$  button to select Mark All or Unmark All.
  - If you select Mark All, every file is selected.
  - If you select Unmark All, the selection for every file is released.
- 3. Press the **OK** button and then  $\blacktriangleright$  button to return to the photo list.
- Mark/Unmark for some file

Press the MARK button repeatedly to mark or unmark some JPEG file.

#### Jump Media

- Use this function to jump to other media during using photo media.



- 1. In photo media, press ◀ button repeatedly to enter the left menu.
- 2. Press the ▲ / ▼ button to select **Jump media** and then press the **OK** button.
- 3. Press the ▲ / ▼ / ◀ / ► button to select desired media and then press the OK button. The screen displays each media list.

#### The Image Adjustment

- You can display the selected image on the entire screen and do the various adjustments for the JPEG file.



- 1. Press the ▲ / ▼ / ◀ / ► button to select JPEG file and then press the OK button.
- 2. Press the ▲ / ▼ button to select **View** and then press the **OK** button The selected image will display on entire screen.
- 3. Adjust the JPEG file.



Image selection	<ul> <li>Press the ► button to select next image.</li> <li>Press the ◄ button to select previous image.</li> <li>If you mark a file, you can see only the marked image.</li> </ul>
Image Rotation	<ul> <li>Press the ▲ / ▼ button to rotate the image.</li> <li>▲: Rotate clockwise</li> <li>▼: Rotate counterclockwise</li> <li>The enlarged image cannot be rotated.</li> </ul>
Image Zoom In/Out	<ul> <li>Press the PR ▲ / ▼ button to enlarge or reduce the image 2 or 4 times.</li> <li>Press the ▲ / ▼ / ◄ / ► button to move the enlarged image.</li> </ul>
Image Deletion	• Press the MARK button to delete the current image.
Go to the Menu	• Press the <b>EXIT</b> button to return to the photo list.
Shown/Hidden the menu	<ul> <li>Each press of the OK button, the menu will toggle hidden or shown.</li> <li>The OSD menu will automatically disappear after a while.</li> </ul>

#### JPEG File Viewing Options

#### Slide Show



- 1. Press the ▲ / ▼ / ▼ / ► button to select JPEG file and then press the OK button.
- 2. Press the ▲ / ▼ button to select **Slide Show** or **Show Marked** and then press the OK button. (If you mark the file with using **MARK** button, **Show Marked** is displayed on screen.)



- You can choose the slide show delayed time and effect. Press the ▲ / ♥ / ◀ / ▶ button to choose the slide show delayed time and effect.
- 4. Press the ▲ / ▼ / ◀ / ► button to select **OK**. Slide show start.

#### Notes:

• You can also operate the Slide Show or Show Marked with button directly as shown.



Next / previous Image Selection	<ul> <li>Press the ► button to select next image.</li> <li>Press the ◄ button to select previous image.</li> </ul>
Image Pause	<ul> <li>Press the II button to pause the current image.</li> <li>Press the  the button to restart the slide show.</li> <li>By pressing  </li> <li>By pressing  </li> <li>button, you can also select the next or previous image while pausing the image.</li> </ul>
Go to the menu	• Press the <b>EXIT</b> button to return to the photo list.
Shown/Hidden the menu	<ul> <li>Each press of the OK button, the menu is toggle hidden or shown.</li> <li>The OSD menu will automatically disappear after a while.</li> </ul>

#### JPEG file Deletion and Cancel



- 1. Use the ▲ / ▼ / ◀ / ► button to select JPEG file and then press the OK button.
- 2. To delete the file, press the ▲ / ▼ button to select **Delete** and then press the **OK** button. When "Do you want to delete the file?" message is displayed, select **YES** (**YES** or **NO**) with ◄ / ► button. The file is deleted, all the following files are shifted up one position.

\* If you select **Delete** after marking some files, all of the marked files are deleted. But in case MS,SMC,SD memory card is set to write protect, "Protection Mode. Please push the **OK** button." message is displayed. When you select the **OK**, the screen will return to the photo list.(Release the write protection to delete a JPEG file.)

3. To return to the photo list, press the  $\blacktriangle$  /  $\checkmark$  button to select **Cancel** and then press the **OK** button.

#### **File Information**

- Use it to check information for selected JPEG file.



- 1. In photo media, select your desired JPEG file.
- 2. Press the **INFO** button. The file information for selected JPEG file is displayed. If JPEG file has no information, you can't check it.
- 3. Press the OK, EXIT or INFO button to return to the photo list.

#### Screen Saver

- While displaying the photo list, if a button is not pressed within approx. 30 seconds, the screen saver is activated.



• Press the ▲ / ▼ / ▼ / ▶, EXIT, ▶(play), II, ■, I◀◀, ▶▶I, INFO, PR ▲ / ▼, MARK buttons to release the screen saver.

#### Operation

#### MP3 File Playing Operation

- Purchased MP3/music files may contain copyright restrictions. Playback of these files may not be supported by this model.

#### Screen Components



#### **MP3 File Selection and Playback**

- MP3 file Selection and deletion function don't work while playing music.
- If pressing any button except 🛛, 📼 , 🖼 button on the remote control while playing music, the music playing is stopped.
- Moves from the current 8 files list to the next files list with PR ▲ / ▼ button.



- 1. Insert the memory card into Slot 1 and/or Slot 2 on the set side panel.
- 2. Press the **x**srume button.
- 3. Use ▲ / ▼ / ◄ / ► button to select music media for slot1 or slot 2.
- 4. Press the **OK** button to enter the music media.
- Note: It's possible to display 8 MP3 files per page.
- 5. Press the ▲ / ▼ button to select desired MP3 file and then press the OK button.
- 6. Press the ▲ / ▼ button to select Play or Play Marked and then press the OK button.(If you mark the file with using MARK button, Play Marked is displayed on screen.)

#### Notes:

- You can also play the music with is button directly.
- The current playing MP3 file displays 🗾 in front of the title.
- While playing music, press the ►►I button to select the next music directly.
- If you press the I◄◀ button while playing music, the MP3 will replay from beginning. (If you press the I◄◀ button within 1~2 seconds after playing the music, the MP3 plays the previous music.)

\* In this manual, the OSD (On Screen Display) may be different from your set's because it is just an example to help you with the set operation.

#### Stop/Pause Playback

Stop Playback

To stop playback, press the 
button on the remote control.

To stop playback, press the OK, PR (▲ / ▼) button on the set.

Notes:

• If you replay the MP3 file after stopping, the highlighted MP3 file on menu will play.

- Pause Playback
  - 1. Press the II button to pause playback.
  - 2. Press the II or is button to starts from the point of your paused part.

#### Mark/Unmark for MP3 file

- You can mark/unmark the file to play the desired file only.
- The menu on the left can be used when playback is stoped.



#### Mark/Unmark for all files

- 1. In music media, press the ◀ button.
- 2. Press the ▲ / ▼ button to select Mark All or Unmark All.
  - If you select Mark All, every file is selected.
  - If you select Unmark All, the selection for every file is released.
- 3. Press the **OK** button and then ► button to return to the music list.

#### Mark/Unmark for some file

Press the MARK button repeatedly to mark or unmark some MP3 file.

#### Operation



#### Jump Media

- Use this function to jump to other media during using music media.



- 1. In music media, press the ◀ button.
- 2. Press the ▲ / ▼ button to select **Jump media** and then press the **OK** button.
- 3. Press the ▲ / ▼ / ◄ / ► button to select desired media and then press the OK button. The screen displays each media list.

#### Screen Saver

- If you don't press any button for about 30 seconds, the screen saver is activated.

Φ Dι	uring	play	ying	the	MP3
------	-------	------	------	-----	-----

* The 'Screen Saver'?		
Screen saver is to prevent screen pixel burning	► 2:27/8:18 Music two	
picture.		

- Press the 🝙, 🝘 , 🔊 buttons. The screen saver is released but the MP3 playback is restarted.
- 📻 , 📻 : Return to a initial portion of the MP3 playback.
- 🗃 : Playback the next MP3.
- If you press any other button, the screen saver is released and the MP3 playback is stopped.
- During stopping the MP3



 Press the ▲ / ▼ / ◀ / ▶, EXIT, ▶(play), II, ■, I◀◀, ▶►I, INFO, PR ▲ / ▼, MARK buttons to release the screen saver.

#### MP3 file deletion and Cancel

- It's impossible to delete the music during playback.



- 1. Use the  $\blacktriangle$  /  $\blacktriangledown\,$  button to select MP3 file and then press the **OK** button.
- 2. To delete the file, press the ▲ / ▼ button to select **Delete** and then press the **OK** button. When "Do you want to delete the file?" message is displayed, select **YES** (**YES** or **NO**) with ◄ / ▶ button. The file is deleted, all the following files are shifted up one position.

\* If you select **Delete** after marking some files, all of the marked files are deleted.
 But in case MS,SMC,SD memory card set the write protection, "Protection Mode. Please push the **OK** button." message is displayed. When you select the **OK**, the screen is returned to the photo list.(Release the write protection to delete a MP3 file.)

3. To return to the music list, press the ▲ / ▼ button to select Cancel and then press the OK button.

#### File Information

- Use it to check information for selected MP3 file.



- 1. In music media, select your desired MP3 file.
- 2. Press the **INFO** button. The file information for selected MP3 file is displayed. If MP3 file has no information, you can't check it.
- 3. Press the OK, EXIT or INFO button to return the previous menu.

### **External Control Device Setup**

 Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the set's functions externally.

#### How to connect external control equipment

- · Connect the serial port of the control device to the RS-232C jack on the Monitor back panel.
- RS-232C connection cables are not supplied with the set.
- The set remote control and front panel controls (except main power) will not be functional if the Monitor is controlled by a PC computer or other external device.

< Back panel of the set >



#### Type of connector; D-Sub 9-pin male

No.	Pin name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection



#### **RS-232C configurations**



3-wire configuration (Not standard)



50 PLASMA HDTV

#### Set ID

- Use this function to specify a set ID number.
- Refer to 'Real Data Mapping'. See page 55.
  - 1. Press the **MENU** button and then ▲ / ▼ button to select the SETUP menu.
  - 2. Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  /  $\blacktriangledown$  button to select Set ID.
  - 3. Press the  $\blacktriangleright$  button and then use  $\blacktriangleleft$  /  $\blacktriangleright$  button to adjust Set ID to
    - choose the desired monitor ID number. • The adjustment range of **Set ID** is 1 ~ 99.
  - 4. Press the EXIT button to return to normal TV viewing.



#### **Communication Parameters**

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- \* Use a crossed (reverse) cable.

#### **Command Reference List**

	COMMAND 1	COMMANE	) 2 DATA (Hexadecimal)
01. Power	k	а	0 ~ 1
02. Input Select	k	b	Refer to p. 52
03. Aspect Ratio	k	с	Refer to p. 52
04. Screen Mute	k	d	0 ~ 1
05. Volume Mute	k	е	0 ~ 1
06. Volume Control	k	f	0 ~ 64
07. Contrast	k	g	0 ~ 64
08. Brightness	k	h	0 ~ 64
09. Colour	k	i	0 ~ 64
10. Tint	k	j	0 ~ 64
11. Sharpness	k	k	0 ~ 64
12. OSD Select	k	I	0 ~ 1
13. Remote control lock m	ode k	m	0 ~ 1
14. PIP/POP/Split	k	n	0 ~ 3
15. PIP Position	k	q	0 ~ 3
16. Treble	k	r	0 ~ 64
17. Bass	k	s	0 ~ 64
18. Balance	k	t	0 ~ 64
19. Colour Temperature	k	u	0~2
20. PIP input Source	k	у	Refer to p. 54
21. ISM Method	j	р	0 ~ 3
22. Low Power	j	q	0 ~ 1
23. Orbiter Time Setting	j	r	1 ~ FE
24. Orbiter Pixel Setting	j	s	1 ~ 3
25. Channel Select Comr	mand m	а	Refer to p. 54
26. Send IR Code	m	с	Key Code
27. Input select (Main)	х	b	Refer to p. 55
28. Input select (PIP)	х	У	Refer to p. 55

#### Transmission / Receiving Protocol

• Stop bit : 1 bit

• Communication code : ASCII code

<u>Transmission</u>		
[Command1][Command2][ ][Set ID][ ][Data][Cr]		
* [Command 1]	: First command to control the set. (j, k, m or x)	
∗ [Command 2] ∗ [Set ID]	<ul> <li>Second command to control the set.</li> <li>You can adjust the set ID to choose desired monitor ID number in special menu.</li> <li>Adjustment range is 1 ~ 99.</li> <li>When selecting Set ID '0', every connected PDP set is controlled.</li> <li>Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (1~0x0~0x63)</li> </ul>	
* [DATA]	on transmission/receiving protocol. : To transmit command data. Transmit 'FF' data to read status of command.	
* [Cr]	: Carriage Return ASCII code '0x0D'	
* [ ]	: ASCII code 'space (0x20)'	

#### OK Acknowledgement

[Command2][ ][Set ID][ ][OK][Data][x]

\* The set transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

#### Error Acknowledgement

[Command2][	][Set ID][	][NG][Data][x]
		JL JL JL J

\* The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 1: Illegal Code

- 2: not support function
- 3: Wait more time

#### 01. Power (Command 2 : a)

To control Power On/Off of the set.

#### Transmission

[k][a][_][Set ID][_][Data][Cr]	
Data 0 : Power Off 1 : Power On (Only 9600bps)	
Ack	

#### [a][ ][Set ID][ ][OK][Data][x]

\* In like manner, if other functions transmit '0xFF' data based on this format, Acknowledgement data feed back presents status about each function.

#### 02. Input Select (Command 2 : b)

To select input source for the set. You can also select an input source using the INPUT button on the set's remote control.

#### **Transmission**

[k][b][ ][Set ID][ ][Data][Cr]	
Data 0 : Digital 1 : Analogue 2 : AV 1 3 : AV 2 4 : Component1	5 : Component2 6 : RGB-DTV 7 : RGB-PC 8 : HDMI/DVI
<u>Ack</u>	
[b][ ][Set ID][ ][OK][Data][x]	

#### 03. Aspect Ratio (Command 2 : c) (Main Picture Size)

To adjust the screen format. (Main picture format) You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the SCREEN menu.

Transmission

[k][c][ ][Se	et ID][_][Data][Cr]	
Data 0 :	Auto	
1 :	4:3	
2 :	16:9	
3 :	14:9 (-10) ~ D: 14:9 (0) ~ 17: 14:	9 (10)
18 :	Zoom (-16) ~ 28: Zoom (0) ~ 38:	Zoom (16)
39 :	Cinema Zoom (1) ~ 48: Cinema	Zoom (16)

#### <u>Ack</u>

[c][ ][Set ID][ ][OK][Data][x]

\* Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.

#### 04. Screen Mute (Command 2 : d)

To select screen mute on/off.

<u>Transmission</u>

[k][d][ ][Set ID][ ][Data][Cr] Data 0 : Screen mute off (Picture on)

1 : Screen mute on (Picture off)

<u>Ack</u>			
[d][	][Set ID][	][OK][Data][x]	

#### 05. Volume Mute (Command 2 : e)

To control volume mute on/off. You can also adjust mute using the MUTE button on remote control.

<u>Transmission</u>			
[k][e][	][Set ID][	][Data][Cr]	

Data 0 : Volume mute off (Volume on) 1 : Volume mute on (Volume off)

<u>Ack</u>		
-		 _

[e][ ][Set ID][ ][OK][Data][x]

#### 06. Volume Control (Command 2 : f)

To adjust volume. You can also adjust volume with the volume buttons on remote control.

<u>Transmission</u>			
[k][f][	][Set ID][	][Data][Cr]	

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping'. See page 55.

<u>Acł</u>	<u> </u>	
[f][	][Set ID][	][OK][Data][x]

#### 07. Contrast (Command 2 : g)

To adjust screen contrast.

You can also adjust contrast in the PICTURE menu.

<u>Transmission</u>

- [k][g][ ][Set ID][ ][Data][Cr]
- Data Min: 0 ~ Max: 64
  - \* Refer to 'Real data mapping'. See page 55.

<u>Ack</u>		
[g][	][Set ID][	][OK][Data][x]

#### 08. Brightness (Command 2 : h)

To adjust screen brightness.
 You can also adjust brightness in the PICTURE menu.

Transmission

[k][h][	][Set ID][ ][Data][Cr]
Data	Min : 0 ~ Max : 64

\* Refer to 'Real data mapping'. See page 55.

Ack

[h][ ][Set ID][ ][OK][Data][x]

### 09. Colour (Command 2 : i)

To adjust the screen colour. You can also adjust colour in the PICTURE menu.

<u>Transmission</u>		
[k][i][	][Set ID][	][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping'. See page 55.



#### 10. Tint (Command 2 : j) (option)

To adjust the screen tint.

You can also adjust tint in the PICTURE menu.

#### <u>Transmission</u>

[k][j][\_][Set ID][\_][Data][Cr]

Data Red : 0 ~ Green : 64

\* Refer to 'Real data mapping'. See page 55.



[j][\_][Set ID][\_][OK][Data][x]

#### 11. Sharpness (Command 2 : k)

To adjust the screen sharpness.

You can also adjust sharpness in the PICTURE menu.

#### <u>Transmission</u>

[k][k][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64

\* Refer to 'Real data mapping'. See page 55.

<u>Ack</u>

[k][ ][Set ID][ ][OK][Data][x]

#### 12. OSD Select (Command 2 : I)

To select OSD (On Screen Display) on/off when controlling remotely.

Transmission

[k][l][	][Set ID][ ][Data][Cr]	
Data	0 : OSD off	1 : OSD on
<u>Ack</u>		

[I][ ][Set ID][ ][OK][Data][x]

#### 13. Remote control lock mode (Command 2 : m)

To lock the front panel controls on the monitor and remote control.



\* If you're not using the remote control, use this mode. When main power is on/off, external control lock is released.

#### 14. PIP/POP/Split (Command 2 : n)

To control the PIP (Picture In picture)/POP/Split picture. You can also control the PIP/POP/Split picture using the PIP button on the remote control.

#### <u>Transmission</u>

[k][n][ ][Set ID][ ][Data][Cr]		
Data 0: PIP off	2:	POP
1: PIP	3:	Split
<u>Ack</u>		
[n][ ][Set ID][ ][OK][Data][x]		

### 15. PIP Position (Command 2 : q)

► To select sub picture position for PIP.

#### Transmission

<u>Transmission</u>
[k][q][ ][Set ID][ ][Data][Cr]
Data 0 : Right down on screen
1 : Right up on screen
2 : Left up on screen
3 : Left down on screen
<u>Ack</u>
[q][ ][Set ID][ ][OK][Data][x]

#### 16. Treble (Command 2 :r)



You can also adjust treble in the AUDIO menu.

<u>Trans</u>	<u>mission</u>	
[k][r][	][Set ID][	][Data][Cr]

Data	Min : 0 ~ Max : 64	

\* Refer to 'Real data mapping'. See page 55.

<u>Ack</u> [r][ ][Set ID][ ][OK][Data][x]

#### 17. Bass (Command 2 : s)

To adjust bass.

You can also adjust bass in the AUDIO menu.

**Transmission** 

[k][s][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

\* Refer to 'Real data mapping'. See page 55.

<u>Ack</u> [s][\_][Set ID][\_][OK][Data][x]

#### 18. Balance (Command 2 : t)

#### To adjust balance.

You can also adjust balance in the AUDIO menu.

<u>Transmission</u>

[k][t][	][Set ID][	][Data][Cr]

Data Min : 0 ~ Max : 64 \* Refer to 'Real data mapping'. See page 55.

<u>Ack</u>

[t][ ][Set ID][ ][OK][Data][x]

#### 19. Colour Temperature (Command 2 : u)

To adjust colour temperature. You can also adjust CSM in the PICTURE menu.



#### 20. PIP Input Source (Command 2 : y)

To select input source for sub picture in PIP/Split picture mode. You can also adjust input source for sub picture using PIP INPUT button on remote control.

**Transmission** 



#### 21. ISM Method

```
(Command 1 : j, Command 2 : p)
```

To control the ISM method. You can also adjust ISM Method in SPECIAL menu.

**Transmission** 

[j][p][_][Set ID][	][Data][Cr]
--------------------	-------------

Data 0 : Normal

1 : Obiter

2 : Inversion 3 : White wash

<u>Ack</u>

l[a]	I[Set ID][	][OK/NG][Data][x]
LMIL	Toorioll	loundloarally

#### 22. Low Power (Command 1 : j, Command 2 : q)

To reduce the power consumption of the set. You can also adjust Low Power in SPECIAL menu.

Transmission

[j][d][	][Set ID]	[ ][Data][	][Cr]	
Data	0 : Off			
	1 : On			
<u>Ack</u>				
[q][ ]	[Set ID][	][OK/NG][	Data][x]	1

#### 23. Orbiter Time Setting (Command 1 : j, Command 2 : r)

To adjust orbiter operation time term.

<u>Transmission</u>	
---------------------	--

[j][r][ ][Set ID][ ][Data][ ][Cr]

Data Min: 1 ~ Max: FE \* Refer to 'Real data mapping'. See page 55.

Ack

[r][ ][Set ID][ ][OK/NG][Data][x]

#### 24. Orbiter Pixel Setting (Command 1 : j, Command 2 : s)

To adjust pixel number in orbiter function.

#### **Transmission**

[j][s][ ][Set ID][ ][Data][Cr]
--------------------------------

Data Min: 1 ~ Max: 3 \* Refer to 'Real data mapping'. See page 55.

Ack

[s][ ][Set ID][ ][OK/NG][Data][x]

#### 25. Channel Select Command (Command 1 : m, Command 2 : a)

Select channel to following programme number.

**Transmission** 

[m][a][ ][Set ID][ ][Data0][ ][Data1][ ][Data2][Cr]
Data0:High Channel data Data1:Low Channel data
Data2 : 0x00 : Analogue Main 0x01 : Analogue Sub 0x10 : Digital Main 0x11 : Digital Sub
Channel data range Analogue - Min: 00 ~ Max: 63 (0~99) Digital - Min: 00 ~ Max: 3E7 (0~999)
ev) In Analague Main and Digital Sub made

ex) In Analogue Main and Digital Sub mode 1. Auto Programme or Manual Programme

2. "ma 0 00 01 00" --> Select 1 channel (Analogue Main)

]

3. "ma 0 00 0A 11" --> Select 10 channel (Digital Sub)

<u>Ack</u>

[a][	][Set ID][	][OK/NG][Data][x]
Data	Min: 00	~ Max: FF

#### 26. Send IR Code (Command 1 : m, Command 2 : c)

► To send IR remote key code.

#### **Transmission**

r 37 37	10	<b>ND 1 NO 1</b>	
Imilal		III )ata II( (ri	
	ligering	IDalajoj	

Data Key code - Refer to page 57~58.

<u>Ack</u>

#### [c][ ][Set ID][ ][OK/NG][Data][x]

\* In this function, it's unavailable to use the IR code "08 (POWER)" and "C4 (POWER ON)".

#### 27. Input select (Command 1 : x, Command 2 : b) (Main Picture Input)

► To select input source for main picture.

**Transmission** 

[x][b][ ][Set ID][	][Data][Cr]
--------------------	-------------

Data Structure

MSB							LSB
0	0	0	0	0	0	0	0
L	Externa	al Inpu	t	Lır	put Ni	umber	

External Input				Data
0	0	0	0	Digital
0	0	0	1	Analogue
0	0	1	0	AV
0	1	0	0	Component
0	1	0	1	RGB-DTV
0	1	1	0	RGB-PC
1	0	0	1	HDMI/DVI

	nput N	lumbe	r	Data
0	0	0	0	Input1
0	0	0	1	Input2

<u>Ack</u>

[b][	][Set ID][	][OK/NG][Data][x]
------	------------	-------------------

#### 28. Input select (Command 1 : x, Command 2 : y) (Sub Picture Input)

To adjust input source for sub picture in PIP mode.

Transmission

[x][y][ ][Set ID][ ][Data][Cr]

Data Structure

MSB							LSB
0	0	0	0	0	0	0	0
-			-	-			-

External Input I Input Number I

E	Extern	al Inpu	t	Data			
0	0	0	0	Digital			
0	0	0	1	Analogue			
0	0	1	0	AV			

I	nput N	lumbe	r	Data
0	0	0	0	Input1
0	0	0	1	Input2

<u>Ack</u>

[y][ ][Set ID][ ][OK/NG][Data][x]

<ul> <li>Real data mapping</li> </ul>							
0 : Step 0							
A : Step 10 (Set ID 10)							
F : Step 15 (Set ID 15) 10 : Step 16 (Set ID 16)							
64:Step 100							
6E : Step 110							
: 73 : Step 115 74 : Step 116							
C7 : Step 199							
FE : Step 254 FF : Step 255							

# **IR Code (NEC Format)**

#### How to connect

Connect your wired remote control to the Remote Control port on the Monitor.

#### Remote Control IR Code (NEC Format)

#### Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz



#### Configuration of frame

• 1st frame



• Repeat frame



Lead code



Bit description



#### Frame interval : Tf

The waveform is transmitted as long as a key is depressed.



Code (Hexa)	Function	Note
00		
00		
02		
02		
40		B/C Butten
40		B/C Butten
06	Bight (►)	B/C Button
07	left (◀)	B/C Button
08	POWER	B/C Button (Power ON/OFF)
C4	POWER ON	Discrete IR Code (Only Power On)
C5	POWER OFF	Discrete IR Code (Only Power Off)
09	MUTE	R/C Button
10	Number Key 0	R/C Button
11	Number Key 1	R/C Button
12	Number Key 2	R/C Button
13	Number Key 3	R/C Button
14	Number Key 4	R/C Button
15	Number Key 5	R/C Button
16	Number Key 6	R/C Button
17	Number Key 7	R/C Button
18	Number Key 8	R/C Button
19	Number Key 9	R/C Button
50	D/A TV	R/C Button
0B	INPUT	R/C Button
BF	COMPONENT1	Discrete IR Code (Input COMPONENT1 Selection)
D4	COMPONENT2	Discrete IR Code (Input COMPONENT2 Selection)
C6	HDMI/DVI	Discrete IR Code (Input HDMI/DVI Selection)
D5	RGB-PC	Discrete IR Code (Input RGB-PC Selection)
D7	RGB-DTV	Discrete IR Code (Input RGB-DTV Selection)
D6	TV	Discrete IR Code (Input TV Selection)
5A	AV 1	Discrete IR Code (Input AV 1 Selection)
D0	AV 2	Discrete IR Code (Input AV 2 Selection)
A9	GUIDE	R/C Button
AA	INFO	R/C Button
1E	FAV	R/C Button
5B	EXIT	R/C Button
0A	1/11	R/C Button
0E	SLEEP	R/C Button
43	MENU	R/C Button
44	OK()	R/C Button
53	LIST	R/C Button
20	TEXT	R/C Button
2A	REVEAL	R/C Button
24	MIX	R/C Button
26		R/C Button
62	UPDATE	R/C Button
64	SIZE	R/C Button
65	STILL	R/C Button
70	INDEX	R/C Button
60	PIP	R/C Button
<u>C3</u>	PIP INPUT	R/C Button
C2	SWAP	R/C Button
CO	PIP PR+	R/C Button
C1	PIP PR-	R/C Button
79	ARC	R/C Button
76	ARC (4:3)	Discrete IR Code (Only 4:3 mode)
77	ARC (16:9)	Discrete IR Code (Only 16:9 mode)
		Disevets ID Code (Only Zeem mode)

#### Miscellaneous

### 

Code (Hexa)	Function	Note	
1A	Q.VIEW	R/C Button	
C8	X STUDIO	R/C Button	
B1	STOP	R/C Button	
7D	MARK	R/C Button	
CA	M/C EJECT	R/C Button	
B0	PLAY	R/C Button	
BA	PAUSE	R/C Button	
72	RED	R/C Button	
71	GREEN	R/C Button	
63	YELLOW	R/C Button	
61	BLUE	R/C Button	
92	APM	R/C Button	

### **Programming the Remote**

The remote is a multi-brand or a universal remote. It can be programmed to operate most remote-controllable devices of other manufacturers.

Note that the remote may not control all models of other brands.

#### Programming a code into a remote mode

- To find out whether your remote can operate the device without programming, turn on the device such as a VCR and press the corresponding mode button on the remote.
   After that, press the **POWER** button. If the device is turned off then it responds properly and the remote need not to be programmed. If not, the remote should be programmed to operate the device. The programming procedures are explained below.
- 2. Press the **MENU** and **MUTE** button continuously at the same time for 2 seconds, the current selected device button will be illuminated.

If you don't press any button for 20 seconds, the light on the mode button will be turned off. In that case, you have to repeat from step 2.

- 3. Enter code numbers using the number button on the remote by referring the code table on the following pages. When pressing the button, the light blinks at a time. If the device turned off, the programming is successful.
- 4. Press the MENU button to store the code. After blinking twice, this code is stored.
- 5. Test the remote functions to see if the device responds properly. If not, repeat from step 2.

# **Programming Codes**

### VCRs

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
AIWA	034	KENWOOD	014 034 039 043	PORTLAND	108	TATUNG	039 043
AKAI	016 043 046 124		047 048	PULSAR	072	TEAC	034 039 043
	125 146	LG (GOLDSTAR)	001 012 013 020	QUARTZ	011 014	TECHNICS	031 033 070
AMPRO	072		101 106 114 123	QUASAR	033 066 075 145	TEKNIKA	019 031 033 034
ANAM	031 033 103	LLOYD	034	RCA	013 020 033 034		101
AUDIO DYNAMICS	012 023 039 043	LXI	003 009 013 014		040 041 062 063	THOMAS	034
BROKSONIC	035 037 129		017 034 101 106		107 109 140 144	ТМК	006
CANON	028 031 033	MAGIN	040		145 147	TOSHIBA	008 013 042 047
CAPEHART	108	MAGNAVOX	031 033 034 041	REALISTIC	003 008 010 014		059 082 112 131
CRAIG	003 040 135		067 068		031 033 034 040	TOTEVISION	040 101
CURTIS MATHES	031 033 041	MARANTZ	012 031 033 067		053 054 101	UNITECH	040
DAEWOO	005 007 010 064		069	RICO	058	VECTOR RESEARCH	012
	065 108 110 111	MARTA	101	RUNCO	148	VICTOR	048
	112 116 117 119	MATSUI	027 030	SALORA	014	VIDEO CONCEPTS	012 034 046
DAYTRON	108	MEI	031 033	SAMSUNG	032 040 102 104	VIDEOSONIC	040
DBX	012 023 039 043	MEMOREX	003 010 014 031		105 107 109 112	WARDS	003 013 017 024
DYNATECH	034 053		033 034 053 072		113 115 120 122		031 033 034 040
ELECTROHOME	059		101 102 134 139		125		053 054 131
EMERSON	006 017 025 027	MGA	045 046 059	SANSUI	022 043 048 135	YAMAHA	012 034 039 043
	029 031 034 035	MINOLTA	013 020	SANYO	003 007 010 014	ZENITH	034 048 056
	036 037 046 101	MITSUBISHI	013 020 045 046		102 134		058 072 080 101
	129 131 138 153		049 051 059 061	SCOTT	017 037 112 129		
FISHER	003 008 009 010		151		131		
FUNAI	034	MTC	034 040	SEARS	003 008 009 010		
GE	031 033 063 072	MULTITECH	024 034		013 014 017 020		
	107 109 144 147	NEC	012 023 039 043		031 042 073 081		
GO VIDEO	132 136		048		101		
HARMAN KARDON	012 045	NORDMENDE	043	SHARP	031 054 149		
HITACHI	004 018 026 034	OPTONICA	053 054	SHINTOM	024		
	043 063 137 150	PANASONIC	066 070 074 083	SONY	003 009 031 052		
INSTANTREPLAY	031 033		133 140 145		056 057 058 076		
JCL	031 033	PENTAX	013 020 031 033		077 078 149		
JCPENNY	012 013 015 033		063	SOUNDESIGN	034		
	040 066 101	PHILCO	031 034 067	STS	013		
JENSEN	043	PHILIPS	031 033 034 054	SYLVANIA	031 033 034 059		
JAC	012 031 033 043		067 071 101		067		
1	048 050 055 060	PILOT	101	SYMPHONIC	034		
	130 150 152	PIONEER	013 021 048	TANDY	010 034		

### DVD

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
APEX DIGITAL	022	MAGNAVOX	013	PHILIPS	013	SONY	007
DENON	020 014	MARANTZ	024	PIONEER	004 026	THOMPSON	005 006
GE	005 006	MITSUBISHI	002	PROCEED	021	TOSHIBA	019 008
HARMAN KARDON	027	NAD	023	PROSCAN	005 006	YAMAHA	009 018
JVC	012	ONKYO	008 017	RCA	005 006	ZENITH	010 016 025
LG	001 010 016 025	PANASONIC	003 009	SAMSUNG	011 015		

Miscellaneous

# Notes

# **Troubleshooting Checklist**

(	Check whether the set is turned on.
No picture &	Power cord inserted into wall outlet?
	<ul> <li>Plug another product's power cord into the wall outlet where the set's power cord was plugged in.</li> </ul>
	Press the VOLUME (+) button.
Picture OK &	Sound muted? Press MUTE button.
No sound	Check whether the TV speaker is "on" in the AUDIO menu. (Refer to p. 26)
(	<ul> <li>Check to see if there is any object between the set and the remote control causing obstruction.</li> </ul>
The remote control doesn't work	<ul> <li>Check to see if the batteries are installed with the correct polarities. (Refer to p.6)</li> </ul>
	Check if the remote control handset is set up to correct mode.
	Install new batteries. (Refer to p.6)
Picture appears slowly, after switching on	<ul> <li>This is normal as the image is muted during the startup process of the set. Please contact your service centre, if the picture has not appeared after five minutes.</li> </ul>
(	<ul> <li>Select Colour in the PICTURE menu and press the VOLUME (+) button. (Refer to p.23)</li> </ul>
No or Poor colour or Poor picture	Keep a certain distance between the set and the VCR.
	<ul> <li>Activate any function to restore the brightness of the picture.</li> <li>(If still picture is on the screen for more than 5 minutes, the screen gets dark.)</li> </ul>
Horizontal/vertical bars or picture shaking	Check for local interference such as an electrical appliance or power tool.
No output from one of the speakers	<ul> <li>Adjust Balance in the AUDIO menu. (Refer to p.25)</li> </ul>
Unusual sound from inside the set	<ul> <li>A change in ambient humidity or temperature may result in an unusual noise at the time of switching off or on of the set and does not indicate a fault with the set.</li> </ul>

# **Product Specifications**

MODEL	60PY2D 60PY2D-AB
Width (inches / mm)	65.6 / 1666
Height (inches / mm)	40.2 / 1022
Depth (inches / mm)	17.1 / 434
Weight (pounds / kg)	205 / 93
Power requirement	AC100-240V, 50/60Hz
Operating Temperature Range	32 ~ 104°F (0 ~ 40°C)
Operating Humidity Range	Less than 80%

• The specifications shown above may be changed without notice for quality improvement.

