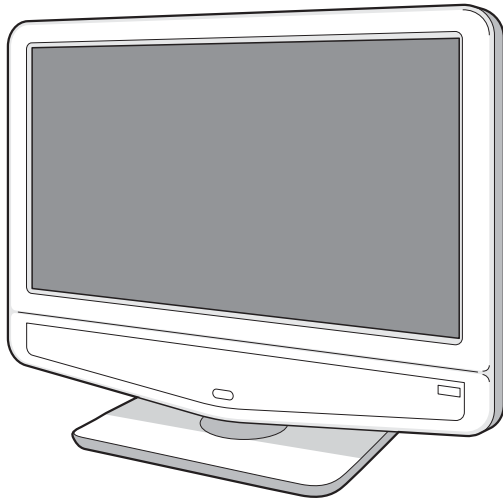


SANYO

INSTRUCTION MANUAL

**LCD-17XP2
LCD-23XP2**

LCD Colour Television



***Please read this Instruction Manual before using your television.
We wish you many hours of pleasure from your new television.***

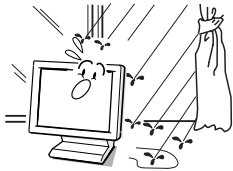
Warnings and Cautions

Warning

High voltages are used in the operation of this television receiver. Do not remove the cabinet back from your set. Refer servicing to qualified service personnel.

Do not drop or push objects into the television cabinet slots or openings. Never spill any kind of liquid on the television receiver.

To prevent fire or electrical shock hazard, do not expose the television receiver to rain or moisture.



If the LCD panel is broken and leaks liquid crystal, do not touch it. Moreover, never swallow or suck the liquid, or touch the liquid with your skin. In case the liquid drops in your mouth or eyes, clear it by water adequately at once and go to see a doctor. If not, there is a possibility causing poisoning. If the liquid drops on skin or clothes, also clear it by water adequately at once, if not, the skin or clothes will be damaged.

Caution

Avoid exposing the television receiver to direct sunlight and other source of the heat.

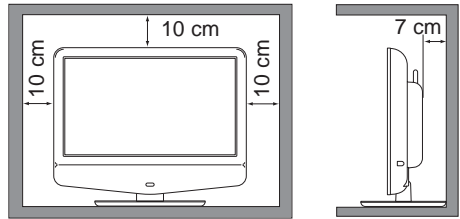


Do not block the ventilation holes in the back cover. Adequate ventilation is essential to prevent failure of electrical components.

If the television is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Heat build-up can reduce the

service life of your television, and can also be dangerous.

Minimum Distances



Care for Using TV Monitor

Screen likely damaged by external shock. When using the TV monitor, following precautions should be taken.

Do not press or hit the screen face. Do not write, paint or affix anything on the screen. Do not put anything on the TV monitor.



Do not press



Do not hit

Cleaning the TV Monitor

Be sure to disconnect the AC Power Cord from AC outlet before cleaning the TV monitor.



Gently wipe the screen and cabinet with dry soft cloth. Screen is likely damaged if it is not maintained properly. Do not use hard cloth or paper. Do not use solvents or abrasive.



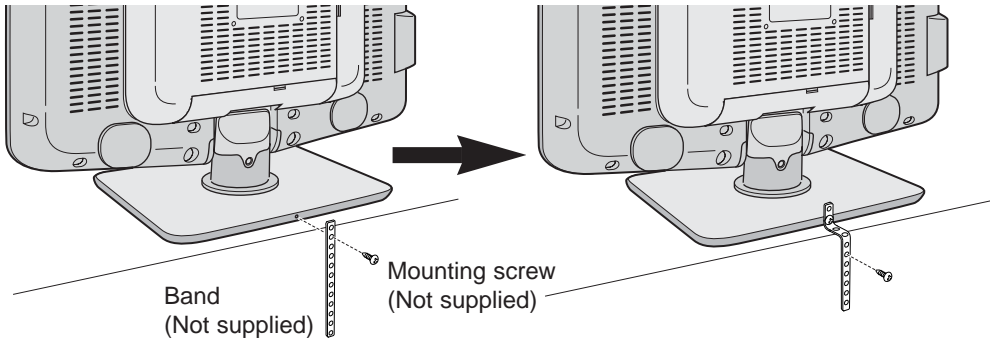
Caution

Do not use benzene, thinner or any volatile substances to clean the TV monitor. These chemicals may damaged the cabinet finish.

Preventing the TV from Falling Over

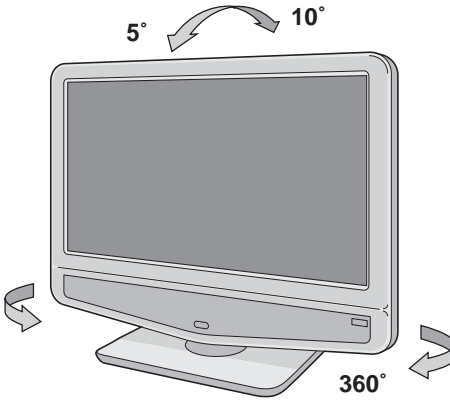
Carry out the steps given below to stabilize the TV that it will be safe in the event of a disaster such as an earthquake, and so that it will not fall over during normal use.

Use commercially-available bands and screws to fasten the TV securely to the TV stand etc.



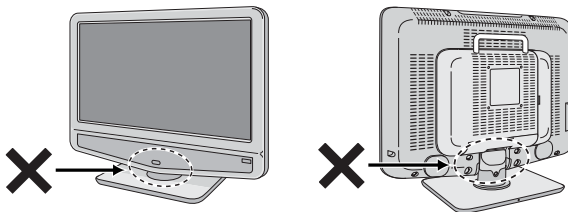
Viewing Angle Adjustment

Swivel stand is rotated 360° right and left and maximum tilt is 5° to the front and 10° to the backward.



Caution

Do not position hand under the screen frame while rotating or tilting the TV.



Installation

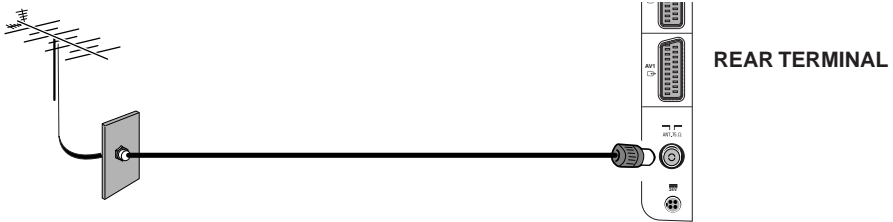
Step 1 : Aerial Connections

Connect your aerial cable socket to the rear of the TV set.

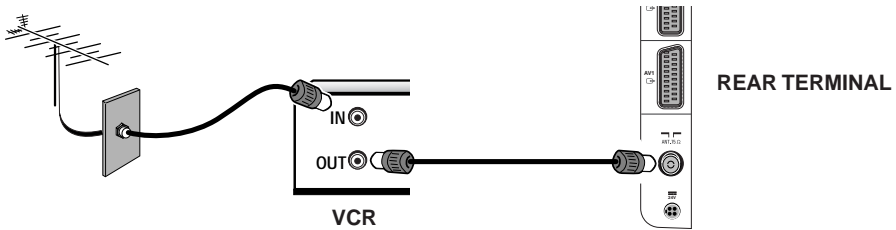
We recommend that you connect all other equipment before Plug & Play.

The following examples are our recommended standard connection. For further information please consult your local dealer. Please refer to individual Instruction Manuals for each equipment for their connection suggestions.

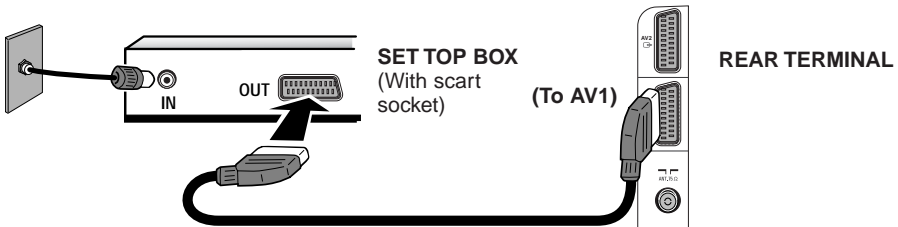
Outdoor Antenna or Cable and TV



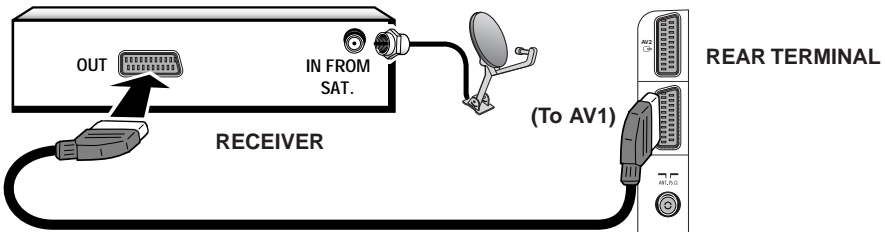
Outdoor Antenna or Cable with VCR and TV



Cable with Set Top Box and TV



Satellite Dish with Receiver and TV



For all aerial circuit problems please consult your local dealer.

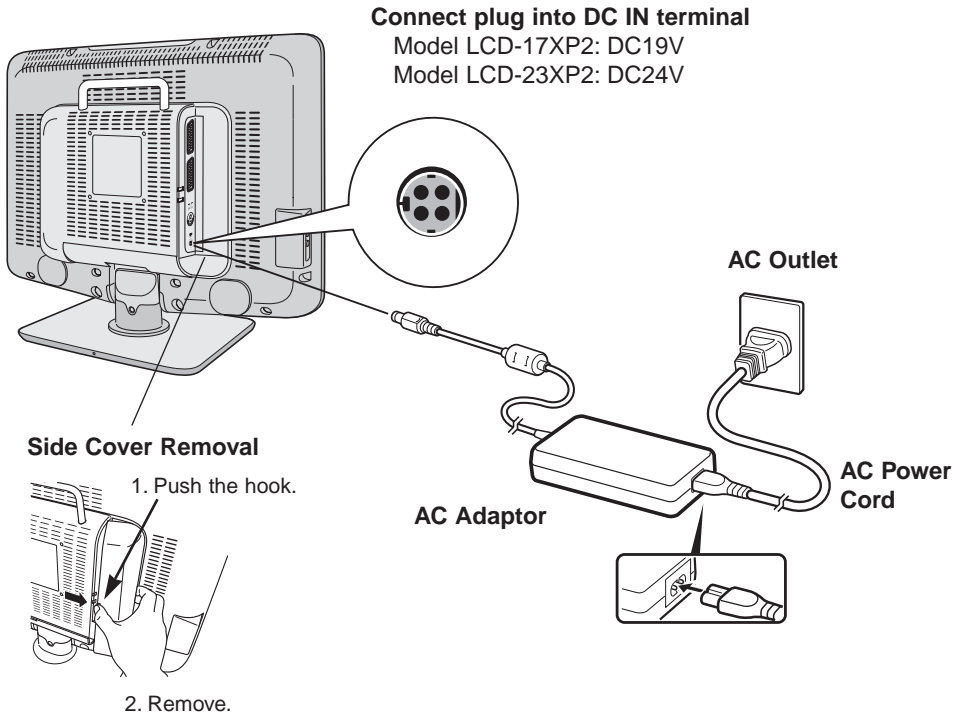
Installation

Step 2 : Connecting Power Supply

Connect the power with following steps;

1. Connect AC power cord to AC Adaptor.
2. Connect AC Adaptor DC output to DC IN of the TV monitor.
3. Connect AC power cord into AC outlet.

Note: The form of the AC code and AC plug are different with each country.



Caution

Do not use without attached cable and adaptor, otherwise fire or electric shock may result.
Do not put AC adaptor in enclosed place, take appropriate spaces for cooling.

Note: AC adaptor becomes little hot while use, this is normal, not malfunctioning.

When the television receiver is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.

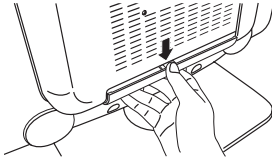
Do not squash power supply cord under the television receiver.

Installation

Step 3 : Arrangement of Cables

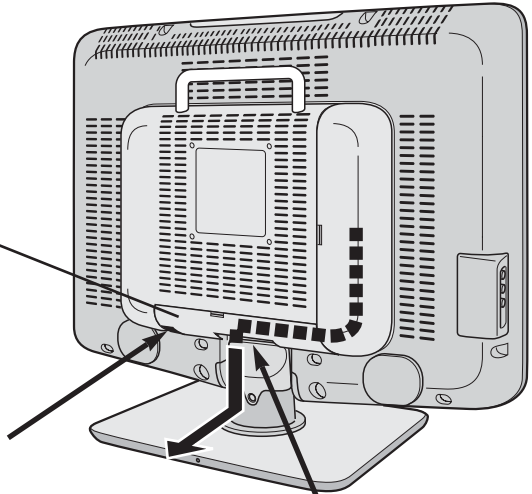
Bottom Cover Removal

1. Push the hook.



2. Remove.

Put out the power supply code of the AC adaptor here.



Put out cables here.

Step 4 : Switching on/Plug & Play

Let's start !

This TV set provides a self-automatic tuning system function called "**Plug & Play**". It automatically begins searching and storing of all available channels when switching-on the TV set for the first time.

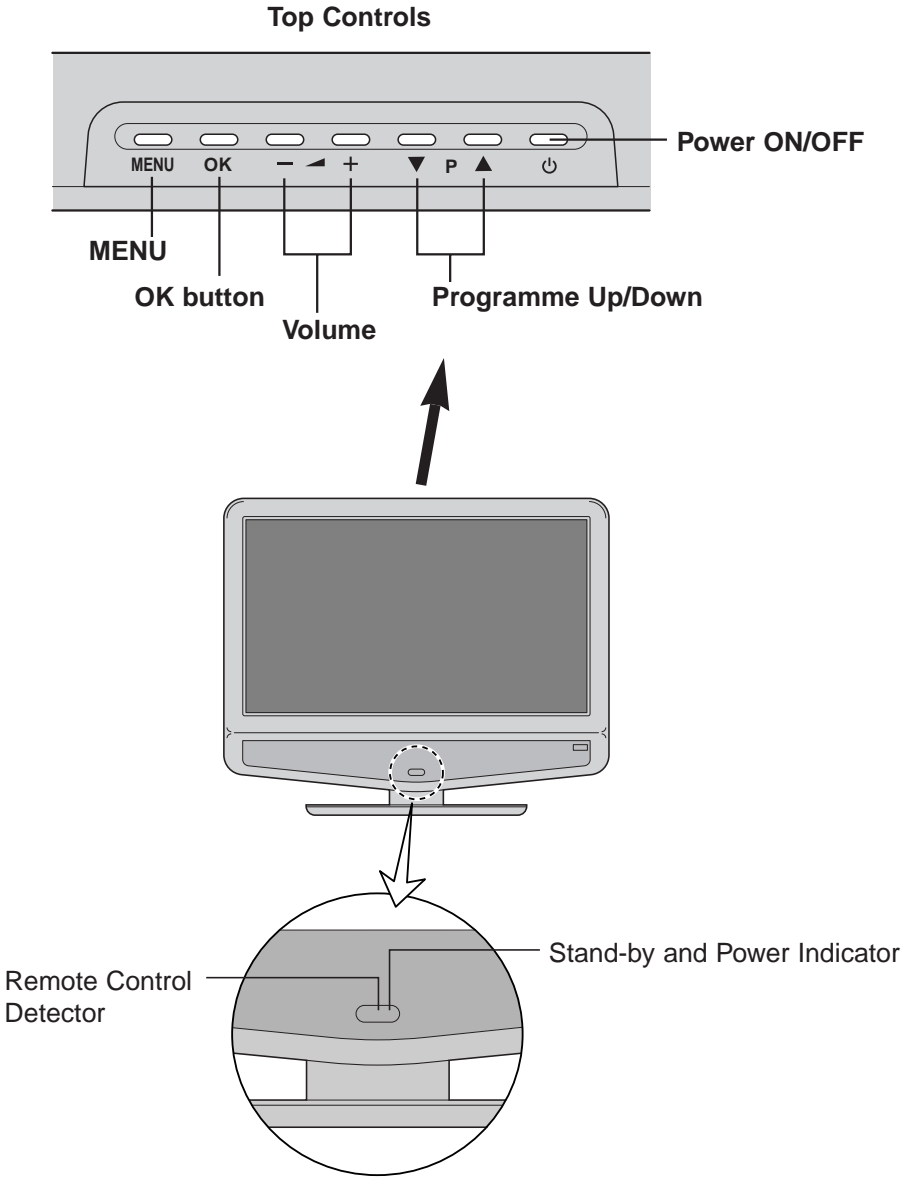
- 1 Press the **Power ON/OFF** button to turn the TV on, and the TV set will search and store of all available TV channels automatically.
- 2 After completing Plug & Play, press the **MENU** button to return to the normal TV mode.

✍ This procedure only appears at the first switch-on time.

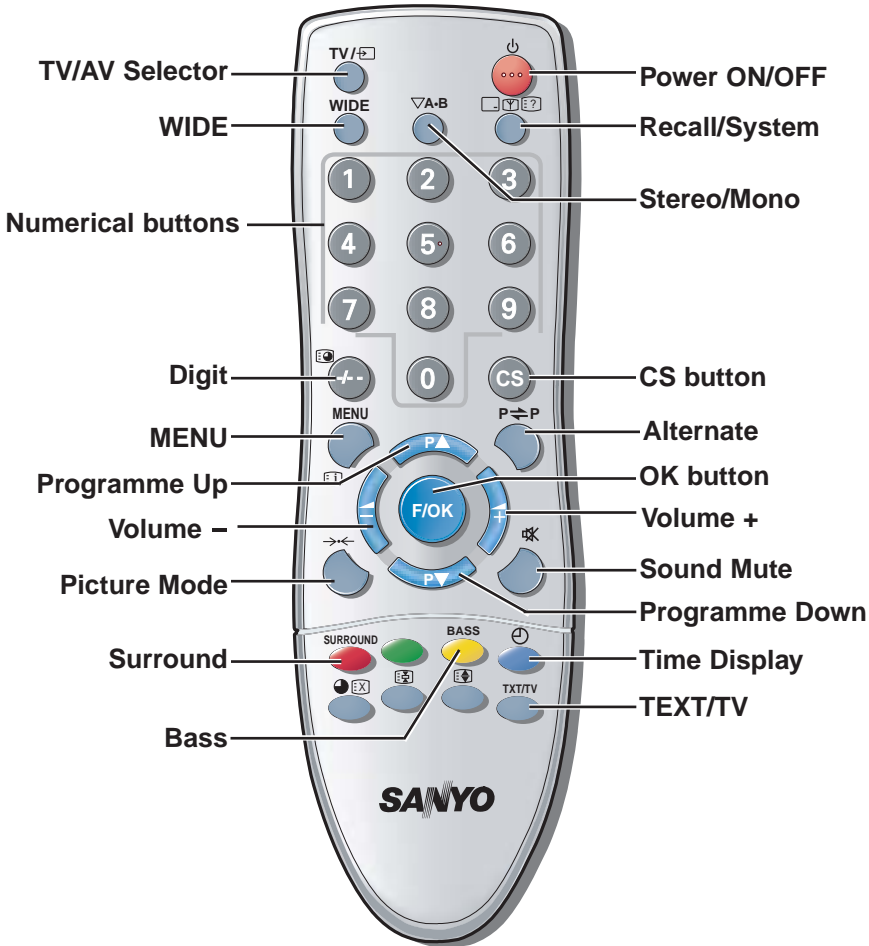
Now the installation is completed !

Control Panel

Each button listed this section has the same function as it's corresponding button on the Remote Control



Remote Control Transmitter

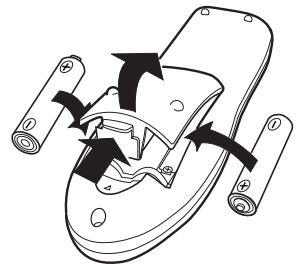


Battery Installation of the Remote Control Transmitter

1. Open the battery cover.
2. Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit.
3. Close the battery cover.

Note:

When Remote Control doesn't work in normal or stable condition, or it can't control operation of the TV set, replace the batteries.



General Operation

Power ON/OFF(Stand by)



Press the **Power ON/OFF** button to turn on or off (Stand-by) the TV set.

Lighting of the Stand-by and Power Indicator shows that there is a power supply. For shutting off a power supply completely, disconnect the power cord from the power outlet.

You can turn on the TV in the standby mode by pressing the following button in addition to the **Power ON/OFF** button.

- **Programme UP/DOWN** button of the remote control transmitter or the TV set.
- **1 to 9, 0** button on the remote control transmitter.

Auto Shut Off Function

If the TV is left on after you have gone to sleep, the TV set changes to the standby mode within 10 minutes after all broadcasts have ended.

Direct Programme Selection

Example:

- Press **6** button to select programme position 6.
- For selection of programme position 10-99, e.g. 27, first press the **Digit** button, and press **2** then **7** button.



Programme Up and Down



To select the next or previous programme position.

CS Button



Press this button once to scan through all current channels already tuned in (except skipped channels).

To stop the scan, press any button.

OK Button



Use in menu operation.

Volume Control



To increase or decrease the sound volume Level.

TV/AV Selector



Press repeatedly to switch to TV, AV1, AV2 or AV3 mode.

Sound Mute



Should you wish to mute the sound (e.g. While talking on the telephone), press the **Sound Mute** button.

To switch the sound back on, press the **Sound Mute** button again, or press the **Volume +** or **-** button.

Alternate



Press the **Alternate** button, and the programme position will alternately select the previous position and the present position.

Picture Mode Selection



Press the **Picture Mode** button repeatedly to select the following picture modes;

Personal : Your personal preference mode.

Dynamic: Suitable for brightly lit room.

Standard: Normal viewing mode.

Eco: Suitable for dimly lit room and gives a cinema-like effect.


Bass Expander On/Off



Press the **Bass** button to get an emphasised bass sound.

General Operation


Active 3D Surround

 This TV provides an incredible 3 Dimensional Surround sound effect.


Press the **Surround** button to select the following modes.

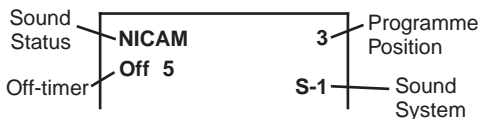
- Off:** To cut off 3D surround effect.
- Mid:** Gives the middle 3D surround effect.
- Max:** Gives the deep 3D surround effect.

Time Display

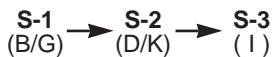
 In the TV mode, if the receiving programme has a teletext service then when the **Time Display** button is pressed, the present time will be displayed on the screen. To erase the time display, press the button again.

Programme Information Call

 To display the on screen indication, press the **Recall/System** button.

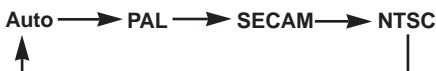


This button is also used to select the sound system, if the poor quality sound is being received. By pressing the **Recall/System** button repeatedly, sound system will be changed as follow;



A sound system setting is automatically stored in the memory.

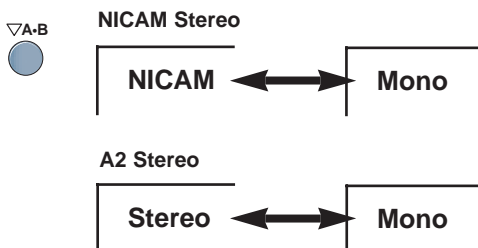
You can also select colour system with the **Recall/System** button in AV mode as follows;



A2 Stereo, NICAM Stereo and Bilingual Broadcast Receiving

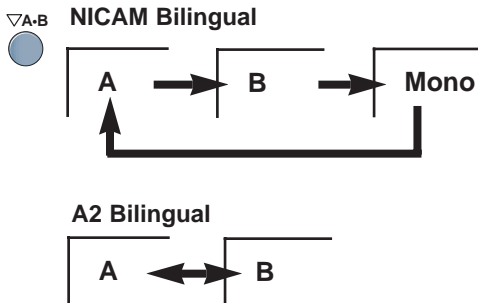
■ A2 Stereo and NICAM Stereo sound reception

When receiving NICAM stereo broadcast, **NICAM** will be displayed on the screen. For A2 (German) stereo broadcasts, **Stereo** will be displayed. When a clear stereo sound can not be obtained during NICAM or A2 (German) stereo broadcast due to poor signal reception, press the **Stereo/Mono** button to select mono mode.



■ Bilingual reception

If the TV receives bilingual programs, the TV initially selects language A and displays "A" on the screen briefly. If you want to switch to language B or Mono (only available in NICAM reception), press the **Stereo/ Mono** button.



General Operation

Screen Mode Selection

Today there are various transmission formats with different size ratios, e.g. 4:3, 14:9, 16:9 and video formats such as letterbox. 4:3 picture sometimes have a black band at the top and bottom of the screen. You can select a screen mode to optimise the picture display.

WIDE Press the **WIDE** button to select the following screen modes;

Auto, **Natural**, **Full**, **Cinema 1**, **Cinema 2** or **Normal**.

Auto

It automatically switches to the optimum screen mode according to the WSS signal provided in the receiving signal source. If the signal does not have it, the TV keeps current screen mode. This setting may cause the picture to change when a different format is received e.g. when an advert is received.

WSS (Wide-Screen-Signalling)

This function is to be automatically set to the optimum screen mode for the wide screen television according to the aspect ratio bits of the picture format (16:9, 14:9, 4:3, etc.) on the receiving signal source.

To use this function, the picture mode should be selected to the "Auto" mode.

This function is also effective in the AV mode. When you connect AV equipment which has the WSS function, the screen mode is automatically selected to the optimum screen mode.

Natural



(Receiving signal is 4:3)

When a 4:3 picture is displayed in this mode, it will be stretched horizontally to fill the screen.

Full



(Receiving signal is 4:3)

The picture is displayed in full screen.

Cinema 1



(Receiving signal is 4:3)

This mode is recommended when displaying pictures which have black bands at the top and bottom.

Cinema 2



(Receiving signal is 4:3)

This mode is used to display 4:3 pictures as zoom leaving the sub-titles visible.

Normal



(Receiving signal is 4:3)

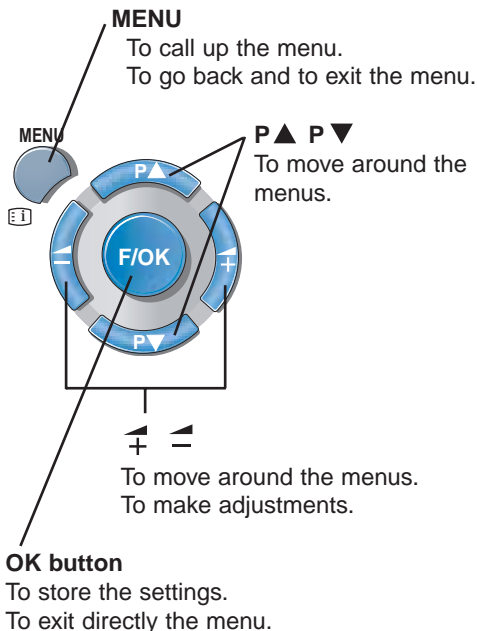
When the receiving signal is 4:3 format, the correct ratio is maintained with black band on the left and right.

Menu Operation

The on-screen menu provides the viewer with easy access to adjustments and settings.

Main menu	
Sound	▷
Picture	▶
Setting	▶▶
Preset	▶▶▶

- During the menu operation, the following buttons are used.



Sound Adjustments

- 1 Press the **MENU** button, then select “Sound” menu with **P▲ P▼**.

Main menu	
Sound	▷
Picture	▶
Setting	▶▶
Preset	▶▶▶

- 2 Press **+ -** to display “Sound” menu.

Sound	
Volume	18
Balance	0
Bass	17
Treble	8
Sound preset	Personal
BBE	On
Surround	Max

- 3 Select an item with **P▲ P▼**.

- 4 Press **+ -** to adjust.

- **Balance :**
Left and Right speaker volume balance adjustment.
- **Sound preset :**
Enable to select the suitable sound modes.
Personal: Your personal preference mode.
Music: Suitable for music programme.
Talk: Suitable for news programme.
Normal: Normal listening mode.

Note: Your sound adjustment will be memorized to “Personal” of the Sound preset automatically.

- **BBE**
Enable to switch the BBE sound turn on and off. *BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.*
- **Surround :**
Enable to select active 3D surround modes (**Mid, Max, Off**). Also possible to select directly by pressing the **Surround** button of the remote control.

- 5 To exit the menu, press the **OK** button.

Menu Operation

Picture Adjustments

- 1 Press the **MENU** button, then select "Picture" menu with **P ▲ P ▼**.
- 2 Press **⏏** **⏏** to display "Picture" menu.

Picture	
Brightness	37
Contrast	32
Colour	32
Sharpness	41
Tint	2
Picture preset	Personal
Dyn. skin tone	On
Text brightness	Mid

- 3 Select an item with **P ▲ P ▼**.
 - 4 Press **⏏** **⏏** to adjust.
- **Tint :**
Adjust colour tints. (Displayed only on NTSC signal reception.)
 - **Picture preset :**
Enable to select the suitable picture modes (Personal, Dynamic, Standard, Eco). Also possible to select directly with the Picture Mode button.

Note: Your picture adjustment will be memorized to "Personal" of the Picture preset automatically.
 - **Dyn. skin tone** (On, Off):
The Skin Tone correction locally changes the hue of colours that match skin tones to the correct hue.
 - **Text Brightness :**
Brightness of teletext screen (Min, Mid, Max). You can not control the picture and the teletext brightness in the teletext mode. You must first switch back to the TV mode and then adjust the picture control or set the teletext brightness level.

- 5 To exit the menu, press the **OK** button.

Setting Menu

- 1 Press the **MENU** button, then select "Setting" menu with **P ▲ P ▼**.
- 2 Press **⏏** **⏏** to display "Setting" menu.

Setting	
Child lock	Off
OSD language	English
Text language	West
AV2	Video
Timer	▶

- 3 Select an item with **P ▲ P ▼**.
 - 4 Press **⏏** **⏏** to set.
- **Child lock** (On, Off):
You can prevent that a small child operates television with the control button of the TV set. When the power plug is pulled out, this function is turned off.
 - **OSD Language :**
This is useful if you wish to change the On Screen Display language (English, French, German, Italian, Spanish, Portuguese, Dutch or Swedish).
 - **Text Language :**
You can choose your teletext language (West, East, Greek or Cyrillic). Please refer to the list below;
West: English, German, Swedish, Italian, Finnish, Hungarian, French, Spanish, Turkish, Danish, Portuguese
East: Polish, Estonian, Rumanian, Czech, Slovakian, Croatian, German, Slovenian
Greek: English, Finnish, German, Danish, Swedish, Hungarian, Italian, French, Slovakian, Turkish, Greek, Croatian
Cyrillic: Polish, Slovenian, German, Russian, Croatian, Lettish

Menu Operation

• Setting of AV2 input mode :



When you use a S-VHS VCR, you should connect it to AV2 scart terminal and set the "AV2" menu to "S-Video".

• Off timer :

The Off timer will switch the TV set into the standby mode when the selected time has elapsed.

1. Select "Timer" in the Setting menu.

Setting	
Child lock	Off
OSD language	English
Text language	West
AV2	S-Video
Timer	▷

2. Press   to display "Timer" menu.

3. Select "Off timer" with **P▲ P▼**.

4. Press   to set.

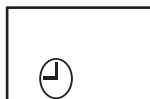
Timer	
Off timer	55
Alarm timer	Off

The time changes in **5 minutes** steps.
The maximum time is **2 hours**.

When the TV set is turned off, the Off Timer setting will be cancelled.

• Alarm timer :

The alarm will ring for about 15 seconds when you are watching the television and it reaches at the set-up time.



1. Select "Alarm timer" in the Timer menu.

2. Press   to set.

Timer	
Off timer	Off
Alarm timer	180

The time changes in **1 minute** steps.
The maximum time is **3 hours**.

To stop the alarm sound and erase alarm mark, press one of the buttons of the remote control or TV set.

If the power plug is pulled out, alarm timer is cancelled.

If the TV is switched off (in the standby mode) when the time set for the Alarm has been reached, alarm setting will be cancelled.

- 5 To exit the menu, press the **OK** button.

Menu Operation

Preset Menu

The preset menu is used for the following items:

Program sort: To rearrange channel positions after Auto tuning.

Auto tuning: To automatically search and store all receivable channels.

Frequency: To manual search and add channels. To fine tune existing channels.

Auto Tuning

- 1 Press the **MENU** button, then select "Preset" menu with **P▲ P▼**.

Main menu	
Sound	▶
Picture	▶
Setting	▶
Preset	▶

- 2 Press **⏏** **⏏** to display "Preset" menu.

- 3 Select "Auto tuning" with **P▲ P▼**.

Preset	
Program sort	▶
Auto tuning	OK?
Program pos.	1
Frequency	271.68 MHz
Sound system	S-1
Skip	Off
Memory	OK?

- 4 Press the **OK** (or **⏏** **⏏**) button to start Auto tuning.

"Busy" changes into "OK?" after completing Auto tuning.

- 5 Press the **MENU** button repeatedly to exit the menu.

Auto tuning can be cancelled at any time by pressing the **MENU** button.

Manual Tuning (Frequency)

- 1 Select "Program pos." with **P▲ P▼** in the "Preset" menu.
- 2 Select a programme position where you wish to preset a channel using **0-9, -/--** or **⏏** **⏏** button.

Preset	
Program sort	▶
Auto tuning	
Program pos.	7
Frequency	271.65 MHz
Sound system	S-1
Skip	Off
Memory	OK?

- 3 Select "Frequency" with **P▲ P▼**.

4 You can either...

- a) Enter the frequency using the **0-9** buttons referring channel table.

Preset	
Program sort	▶
Auto tuning	
Program pos.	7
Frequency	6-- . -- MHz
Sound system	S-1
Skip	Off
Memory	OK?

- b) Press and hold **⏏** **⏏** until the frequency starts scanning (about 5 seconds), scanning will stop when a channel is found.

- c) Press and release **⏏** **⏏** to re-tune the frequency.

Repeat above until the correct channel is found.

- 5 Select "Memory" with **P▲ P▼**, and press the **OK** (or **⏏** **⏏**) button to store your preferred channels.

Preset	
Program sort	▶
Auto tuning	
Program pos.	7
Frequency	631.25 MHz
Sound system	S-1
Skip	Off
Memory	OK

Menu Operation

■ When the sound is not clear or no sound is produced, change the Sound system.

To change the sound system:

Select "Sound system" menu with **P ▲ P ▼**, and select sound system S-1 (B/G),

Preset	
Program sort	▶
Auto tuning	
Program pos.	7
Frequency	631.25 MHz
Sound system	S-1
Skip	Off
Memory	OK?

Then select "Memory" with **P ▲ P ▼**, and press the **OK** (or **⏏**) button to store the sound system.

6 Press the **MENU** button repeatedly to exit the menu.

Program sort

Use the Program sort feature to swap the channels (tuning data) between two stored programme positions or delete the tuning data on a programme position after Auto tuning and Manual tuning.

Channel Swapping

1 Select "Program sort" in the Preset menu.

Preset	
Program sort	▷
Auto tuning	
Program pos.	7
Frequency	631.25 MHz
Sound system	S-1
Skip	Off
Memory	OK?

2 Press **⏏** to display "Program sort" menu.

Program sort		
1	6	11
2	7	12
3	8	13
4	9	14
5	10	15
▲▼▶ Move ◀Delete		

3 Select a programme position which you want to swap using **⏏** or **P ▲ P ▼** (For example programme position 4). Then press the **Green** button on the remote control.

Program sort		
1	6	11
2	7	12
3	8	13
4	9	14
5	10	15
▲▼▶ Move 4 to ...		

4 Select a new programme position to swap (For example programme position 2). Then press the **Green** button again, and the channels of the programme position 4 and 2 will be swapped each other.

Program sort		
1	6	11
2	7	12
3	8	13
4	9	14
5	10	15
Please wait.		

Deletion of programme position

5 Select a programme position which you want to delete. (For example programme position 14). Then press the **Red** button on the remote control.

Program sort		
1	6	11
2	7	12
3	8	13
4	9	14
5	10	15
Delete? 14		

6 Press the **Red** button again and the tuning data of the programme position 14 is now deleted.

7 To exit the menu, press the **OK** button.

Menu Operation

Setting of the Skip Channels

If there are positions you do not use, by setting skip channel function, it is possible to jump over any position when you are selecting a channel using the **PROGRAMME**

UP/DOWN (P ▲ P ▼) button.

- 1 Select a programme position that you want to skip.
- 2 Select "Skip" in the Preset menu, and press **↕** **⇐** to set Skip "On".

Preset	
Program sort	▶
Auto tuning	
Program pos.	7
Frequency	677.25 MHz
Sound system	S-1
Skip	On
Memory	OK?

To cancel the skip channel, set Skip "Off".

- 3 To store the skip setting, select "Memory" and press **OK** (or **↕** **⇐**) button to set it "OK".

Preset	
Program sort	▶
Auto tuning	
Program pos.	7
Frequency	677.25 MHz
Sound system	S-1
Skip	On
Memory	OK

- 4 Press the **MENU** button repeatedly to exit the menu.

Setting of Hotel Mode

The Hotel Mode is a feature that might be needed by a hotel management to confine the TV that put in the hotel room, so it will not disturb other rooms.

Hotel mode (On/Off):

It is used to activate or inactivate all of the hotel mode setting. Also, channel preset is prohibited when the hotel mode is set on.

Max. volume:



Setting the limit of maximum sound volume.

On program:

Setting for the start up programme position.

Setting Procedure

- 1 Press and hold the **Recall/System** button on the remote control and press the **Programme Up(P ▲)** button on the TV set to call up the Hotel mode menu.
- 2 Select "Max. volume" with **P ▲ P ▼**, and set the maximum volume using **↕** **⇐** button.

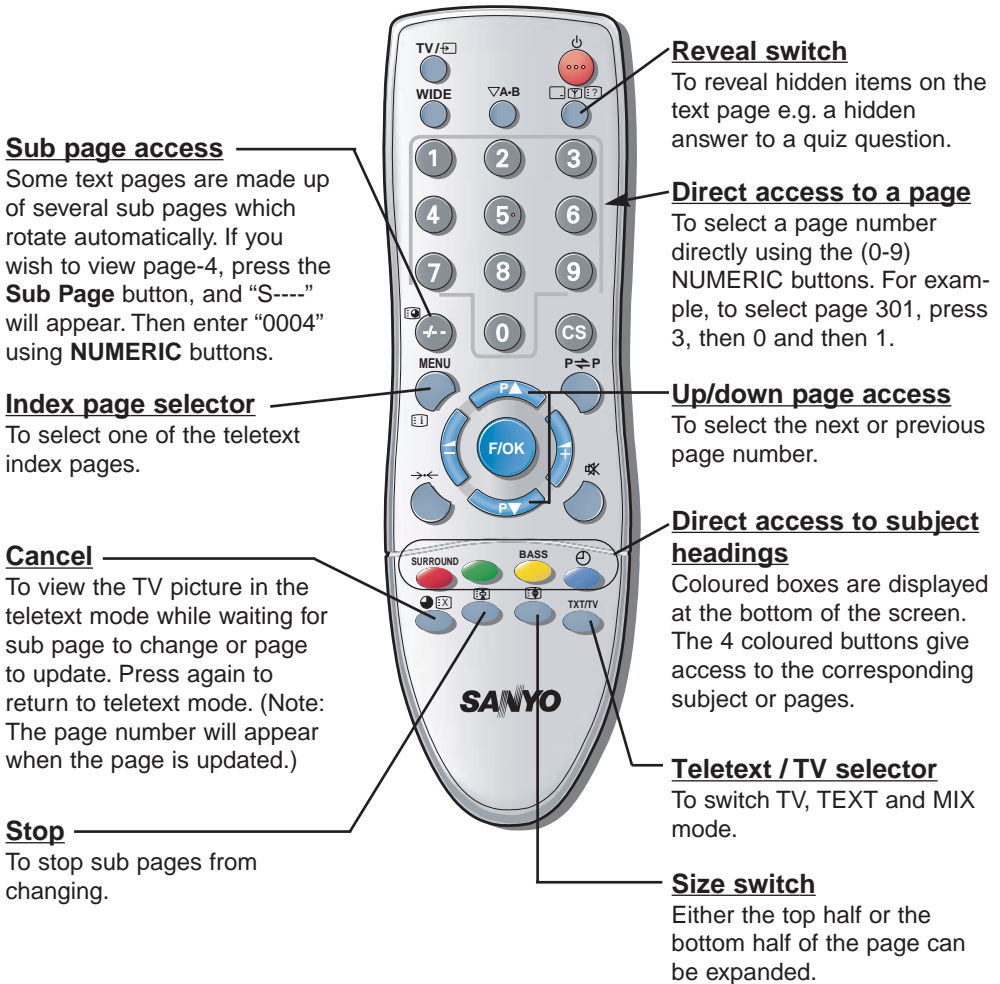
Hotel	
Hotel mode	Off
Max. volume	31  
On program	8

- 3 Select "On program" and set the start up position using **↕** **⇐** button.
(...98-99-AV1-AV2-AV3-0-1-2-3 ...)

- 4 After complete all of the settings, select "Hotel mode" and set the Hotel mode "On" by pressing **↕** **⇐** button.

- 5 Press the **OK** or **MENU** button to return to the normal TV mode.

Teletext Operation



Teletext language selection

You can select a teletext language. Please return to the TV mode. (See **Setting menu**.)

Teletext brightness level

You can change the teletext brightness level. Please return to the TV mode. (See **Picture adjustments**.)

Sound volume control in teletext mode.

In teletext mode, sound volume and sound muting can be controlled. However they are not displayed on the screen

Teletext reception

If your aerial signal is poor, the teletext reception may be poor.

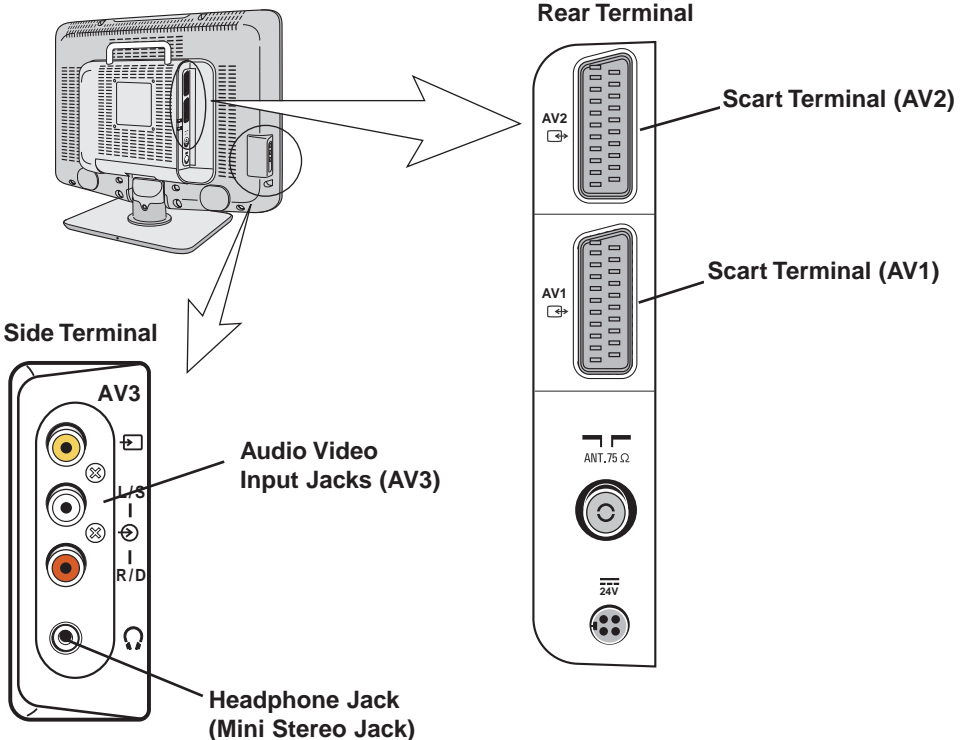
Connecting Other Equipment

You can connect a VCR, S-VHS VCR, Satellite Tuner, PAY TV Decoder, DVD or Camcorder to this TV via the SCART terminals and the AV terminals.

This TV set has the following terminals.

- 1) Two scart sockets (**AV1** and **AV2**) on the rear of the TV set.
 - AV1:** Composite video, RGB and Audio (L/R) signal inputs.
TV-output with composite video and Audio (L/R) signal outputs.
 - AV2:** Composite video, RGB, S-Video and Audio (L/R) signal inputs.
Monitor-output with composite video and Audio (L/R) signal outputs.
 - 2) RCA Audio (L/R)/Composite Video input (**AV3**) on the side of the TV set.
- Depending on the type of video tape or connected AV equipment being used, it may be necessary to select colour system. In this case, press the **Recall/System** button and select a suitable colour system. Colour system setting for AV position is automatically stored in the memory.
 - You can select and return to a TV programme by selecting any of the TV position while watching a playback from a VCR, DVD, etc.
 - By pressing the **Stereo/Mono** button repeatedly, you can select the sound track L (left), R (right) or L/R.

AV Terminals

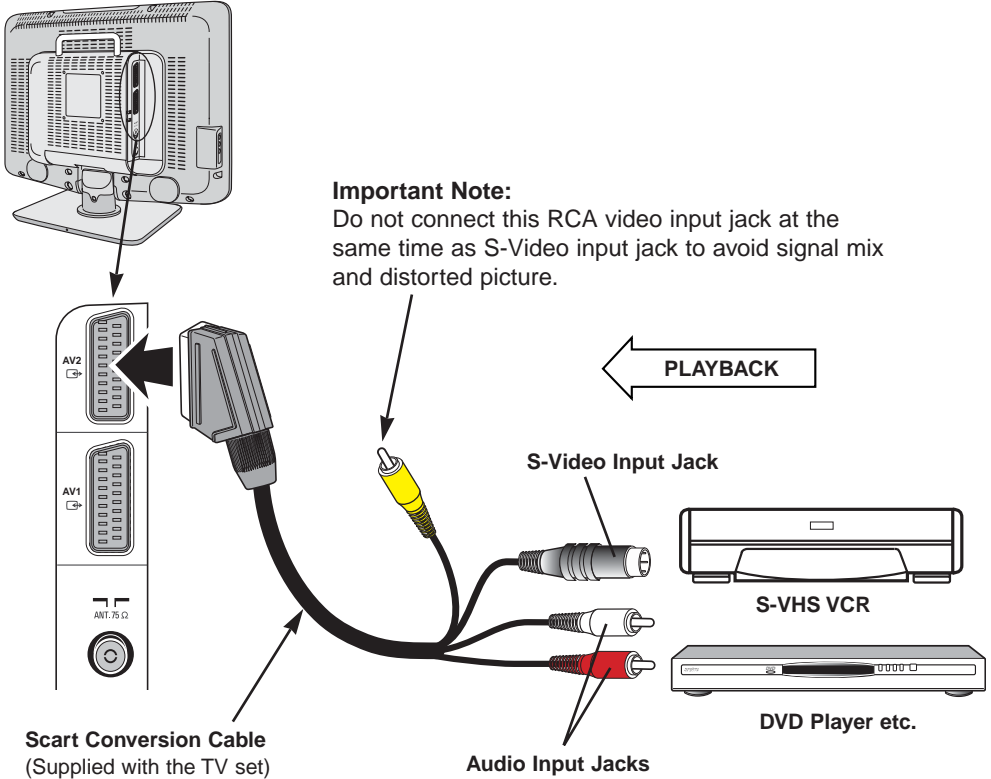


Connecting Other Equipment

Connecting to the Rear AV2 Terminal through the Scart Conversion Cable

The AV equipment with only RCA Jacks can be connected to the scart terminal of this TV by using the attached Scart Conversion Cable.

For example, when you use a S-VHS VCR, connect it with the AV2 terminal using Scart Conversion Cable. (The Scart terminal of AV1 doesn't have a S-video terminal.)



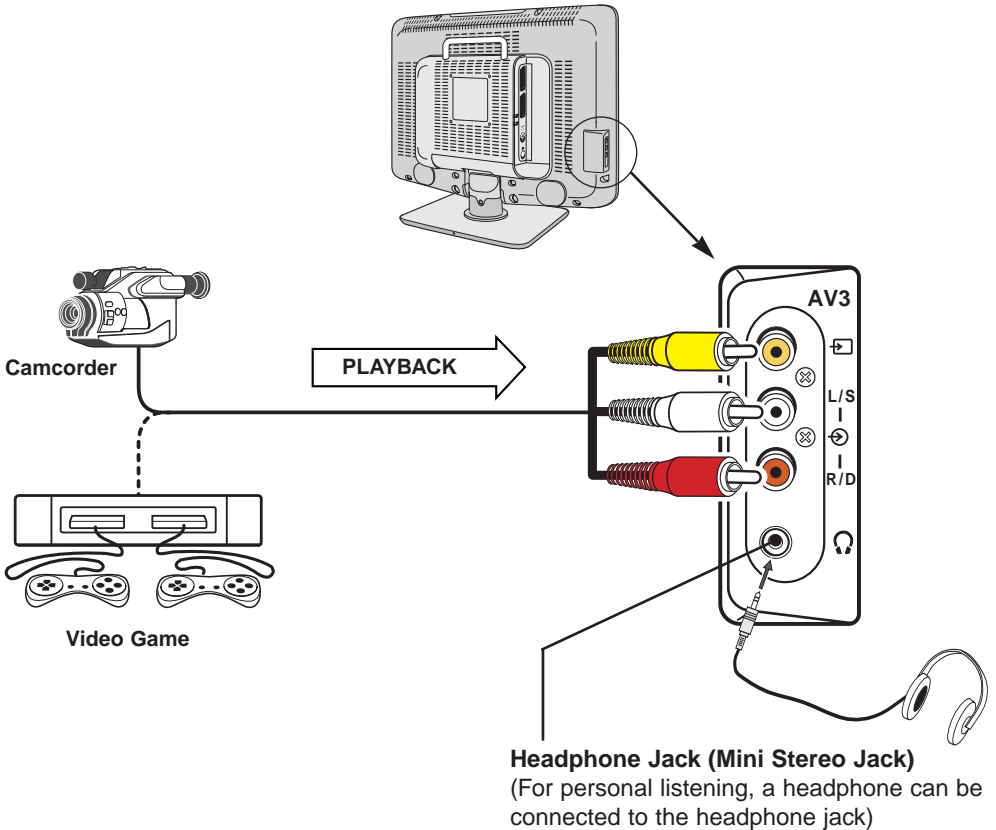
Important : When you use a S-VHS VCR, AV2 must be set on “S-Video” status.
(See Setting Menu on page 13 and 14.)

- Select “AV2” mode by pressing the **TV/AV Selector** of the remote control for watching.

Connecting Other Equipment

Connecting to the Side AV3 Input Jacks

It is convenient to use the AV3 input jack on the side panel for equipment that is often connected and disconnected.



- Select "AV3" mode by pressing the **TV/AV Selector** of the remote control for watching.

Specifications

Power Source

Model LCD-17XP2 Monitor: DC19V
AC Adaptor: AC100-264 Volts, 50/60Hz, Output DC19V

Model LCD-23XP2 Monitor: DC24V
AC Adaptor: AC100-264 Volts, 50/60Hz, Output DC24V

Colour System

PAL/SECAM
(Video Terminal Input: PAL/SECAM/NTSC3.58/PAL-60Hz)

Sound System

BG, DK, I

Channel Coverage

VHF: 0-11, 5A (Australia), 1-11 (New Zealand),
E2-E12, R1-R12

UHF: 21-69

CATV: S1-S41, X, Y, Z, Z+1, Z+2

Aerial Input Impedance

75 Ω

LCD Panel (Model LCD-17XP2)

Screen Size (Measured Diagonally): 17 inch (43.1 cm)

Picture Resolution: WXGA 1280 (Horiz.) x 768 (Vert.) pixels

Viewing Angles: Horiz. 176°, Vert. 176°

Contrast Ratio: 600:1

Brightness: 450 cd/m²

Response Time: 12 ms

LCD Panel (Model LCD-23XP2)

Screen Size (Measured Diagonally): 23 inch (58.4 cm)

Picture Resolution: WXGA 1280 (Horiz.) x 720 (Vert.) pixels

Viewing Angles: Horiz. 176°, Vert. 176°

Contrast Ratio: 800:1

Brightness: 550 cd/m²

Response Time: 8 ms

Audio Output (RMS)

Model LCD-17XP2: 2W + 2W

Model LCD-23XP2: 5W + 5W

Speaker

5 cm x 9 cm x 2 pcs.

AV Terminals

AV1 CENELEC Standard

Input: Composite video, RGB and audio-L/R

Output: TV-output with composite video and audio-L/R

AV2 CENELEC Standard

Input: Composite video, RGB, S-video and audio-L/R

Output: Monitor-output with composite video and audio-L/R

AV3 RCA Jacks Input: Composite video and audio-L/R

Headphone Jack

Mini Stereo Jack x 1

Net weight

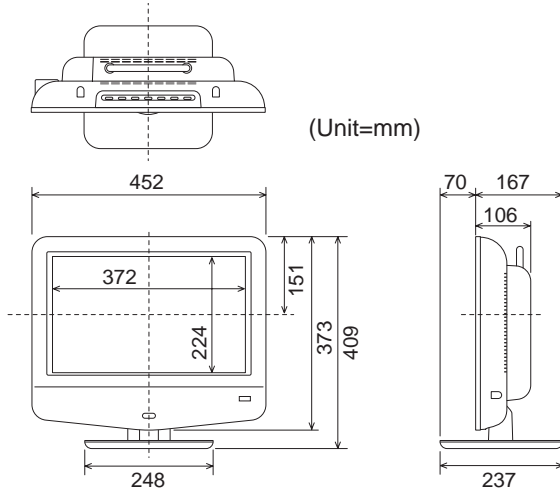
Model LCD-17XP2: Approx. 7.5 Kg (Included Swivel Stand)

Model LCD-23XP2: Approx. 9.4 Kg (Included Swivel Stand)

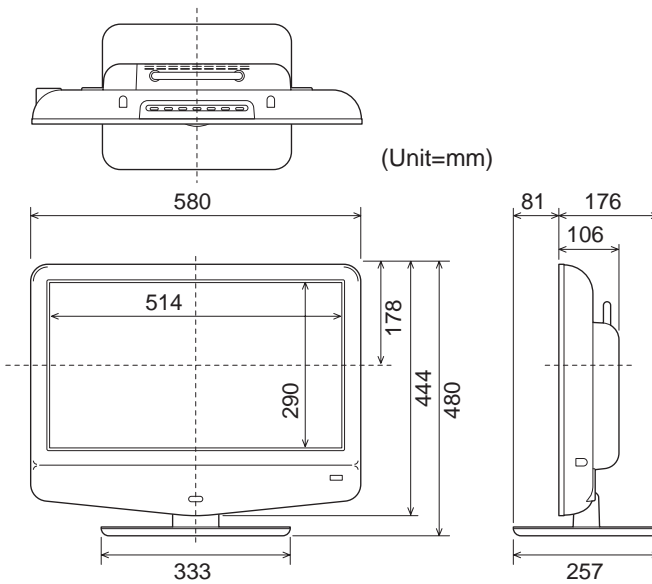
Specifications

Dimensions Model LCD-17XP2: 452(W) X 409(H) X 237(D) mm (Included Swivel Stand)
Model LCD-23XP2: 580(W) X 480(H) X 257(D) mm (Included Swivel Stand)

Model LCD-17XP2



Model LCD-23XP2



Specification subject to change without notice

Helpful Hints

■ Helpful hints

■ NO PICTURE, NO SOUND

- Check if TV is plugged in.
- Try a different channel, if OK, probably station trouble.

■ POOR PICTURE, SOUND OK

- Adjust BRIGHTNESS control.
- Adjust FINE TUNING control.
- Check aerial connections

■ NO COLOUR, PICTURE OK

- Adjust COLOUR control.
- Adjust FINE TUNING control.
- Is the programme in colour ?

■ WEAK PICTURE

- Check aerial connections on back of set.
- Check aerial for broken wires.
- Re-orient aerial.

■ The following faults are not caused by the receiver:

"GHOSTS"

Reflections of signals from mountains or high buildings will cause multiple images, called "Ghosts". These abnormal conditions can be reduced to minimum by repositioning aerial or by installing a new one suited for your area.

"INTERFERENCE"

Interference may be caused by electrical appliances, car ignition systems, etc. This should normally be a temporary condition, but should this interference persist, contact your dealer.

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