

## Introduction

Thank you for purchasing this 32" Widescreen Television which has been designed and manufactured to give you many years of trouble-free service.

You may already be familiar with using a similar product, but do please take time to read these instructions - they have been written to ensure you get the very best from your purchase.

## Safety is Important



To ensure your safety and the safety of others, please ensure you read the Safety Instructions **before** you operate this product.

**Keep this information in a safe place for future reference.**

### Please Note

This 32" TV LCD Monitor TV is referred to throughout this user guide as television or TV.



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**WARNING! THIS PRODUCT UTILISES A CLASS 1 LASER. USE OF CONTROLS, ADJUSTMENTS OR PROCEDURES NOT LISTED IN THIS USER GUIDE MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

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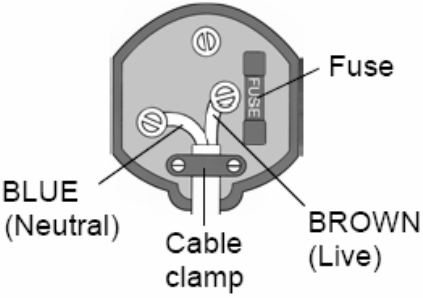
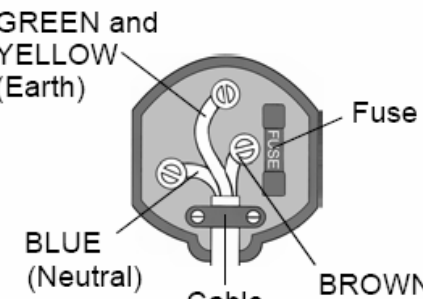


# Electrical Information

This appliance is fitted with a BS1363/A 13 amp plug. If it is not suitable for your supply sockets it must be removed and replaced with an appropriate plug. If the plug becomes damaged and/or needs to be replaced please follow the wiring instructions below. The plug removed must be disposed of immediately. It must not be plugged into a supply socket as this will be an electrical hazard. If the fuse needs to be replaced it must be of the same rating and ASTA approved to BS1362. If the plug is changed, a fuse of the appropriate rating must be fitted in the plug, adapter or at the distribution board. If the fuse in a moulded plug is replaced, the fuse cover must be refitted before the appliance can be used.

## Wiring Instructions

The supply cable will be either 2-core or 3-core. Follow the appropriate wiring instructions given below. In both cases ensure that the outer sheath of the cable is firmly held by the cable clamp.

<p><b>2 - CORE</b></p>  <p>The diagram shows a top-down view of a 2-core BS1363/A plug. A cable enters from the bottom, held by a 'Cable clamp'. Three terminals are visible: a top terminal for the 'Fuse', a left terminal for 'BLUE (Neutral)', and a right terminal for 'BROWN (Live)'.</p>	<p><b>⚠ WARNING!</b> Do not connect either wire to the earth terminal.</p> <p><b>□</b> This symbol indicates that this 2-core appliance is Class II and does not require an earth connection.</p> <p>The wire coloured blue must be connected to the terminal marked with the letter N or coloured black.</p> <p>The wire coloured brown must be connected to the terminal marked with the letter L or coloured red.</p>
<p><b>3 - CORE</b></p>  <p>The diagram shows a top-down view of a 3-core BS1363/A plug. A cable enters from the bottom, held by a 'Cable clamp'. Four terminals are visible: a top terminal for the 'Fuse', a left terminal for 'GREEN and YELLOW (Earth)', a bottom-left terminal for 'BLUE (Neutral)', and a right terminal for 'BROWN (Live)'.</p>	<p><b>⚠ WARNING!</b> This appliance must be earthed.</p> <p>The wire coloured green and yellow must be connected to the terminal marked with the letter E, or by the earth symbol, <math>\perp</math>, or coloured green or green and yellow.</p> <p>The wire coloured blue must be connected to the terminal marked with the letter N or coloured black.</p> <p>The wire coloured brown must be connected to the terminal marked with the letter L or coloured red.</p>

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



**DANGEROUS  
VOLTAGE**

Conductor dangerous voltage, that may be of sufficient magnitude to constitute a risk of electric shock to persons is present within this product's enclosure.



**ATTENTION**

The owner's manual contains important operating and maintenance instructions, for your safety, it is necessary to refer to the manual.

**WARNING** : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO DRIPPING OR SPLASHING.

**Note:**

This unit will become warm when used for a long period of time. This is normal and does not indicate a problem with the unit.

# Operating Safety

- **Never open the housing** of the LCD display/power supply! When the housing is open, there is a **danger of injury** from electric shock!
- Do not insert **any objects** through the slots and openings of the monitor. This may lead to an electrical short-circuit or even fire resulting in damage to your LCD display.
- Slots and openings in the LCD display are for ventilation purposes. **Do not cover these openings**, as this may lead to overheating.
- Do not allow **children** to play **unattended** with electrical equipment. Children may not always correctly recognize danger.
- This LCD display is intended for personal use only. It is **not** intended for commercial use in **a heavy industry environment**.
- An **injury hazard** exists if the **display breaks**. Wear protective gloves to pack the broken parts and send them to your service centre for proper **disposal**. Then wash your hands with soap, because it is possible for **chemicals** to escape.
- Never exert pressure on the display. This could break the monitor.
- Do not touch the display with your fingers or with sharp objects to avoid damage.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.

**Contact your dealer immediately in any of the following situations. Do NOT plug in or switch on your display:**

- If the power cable/power supply overheats or is damaged
- If liquid is leaked into the monitor
- If the LCD display is dropped or the housing damaged

# Connecting

Observe the following instructions to connect your LCD display properly:

## Power supply



- Do not open the power supply housing. An open housing presents a lethal hazard from electrical shock. There are no parts inside to be cleaned or serviced.
- Operate your LCD display only with grounded outlets with **AC 230V/ 50 Hz**. If you are not sure about the power supply at your location, check with your power company.
- Use only the power supply and power connection cable **provided**.
- For additional safety we recommend use of a **surge protector** to protect your LCD display from damage resulting from **voltage surges** or **lightning**.
- To remove the LCD display from the power supply, disconnect the plug from the AC outlet.
- Where the main plug is used as the disconnect device, the power **outlet** must be in the vicinity of your LCD display and within reach of the power cables. **DO NOT stretch the power cables tightly to reach a power outlet**.
- You should arrange the LCD display cables in a manner so that no one can trip over or step on them.
- To avoid damage to cable **do not place any objects or furniture on the cable**.
- Do not defeat the safety purpose of the polarized or grounding-type plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

## Point of use

- Keep your LCD display and all units connected to it away from **moisture** and avoid **dust, heat** and **direct sunlight**. Failure to observe these instructions can lead to malfunctions or damage to the LCD display.
- Place and operate all units on a **stable, level** and **vibration-free surface** in order to avoid the LCD display from falling.



# Additional Safety Instructions

When using any electronic equipment, basic safety precautions should always be taken. Following the guidelines below can reduce the risk of fire, electric shock and injury to person:

- Do not use this product including TV set and remote near water (e.g. near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool).
- Use only the power cord indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Keep batteries away from children at all times.

## Precautions



- There are no parts which can be serviced or cleaned inside of the TV display housing.

You can increase the life of your LCD display by taking the following precautions:

- Before cleaning **always disconnect the power line** and all connection cables.
- Do **not use any solvents**, caustic or gaseous cleaning agents.
- Clean the display with a soft, lint-free cloth.
- Ensure that no water droplets remain on the screen. Water can cause **permanent discoloration**.
- Do not expose the screen to **bright sunlight** or **ultraviolet radiation**.

## Information on Disposal of Waste Electrical and Electronic Equipment



This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life cycle separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your retailer where you purchased the product.

# Introduction

Thank you for purchasing our LCD TV. We thank you for your confidence in our products and are pleased to greet you as a new customer.

We focus on great features, ease of use and reliability in manufacturing your LCD display.

## WARRANTY

Your TV comes with a one-year warranty; this is in addition to your statutory rights. This manual contains a separate chapter on Troubleshooting on page 39.

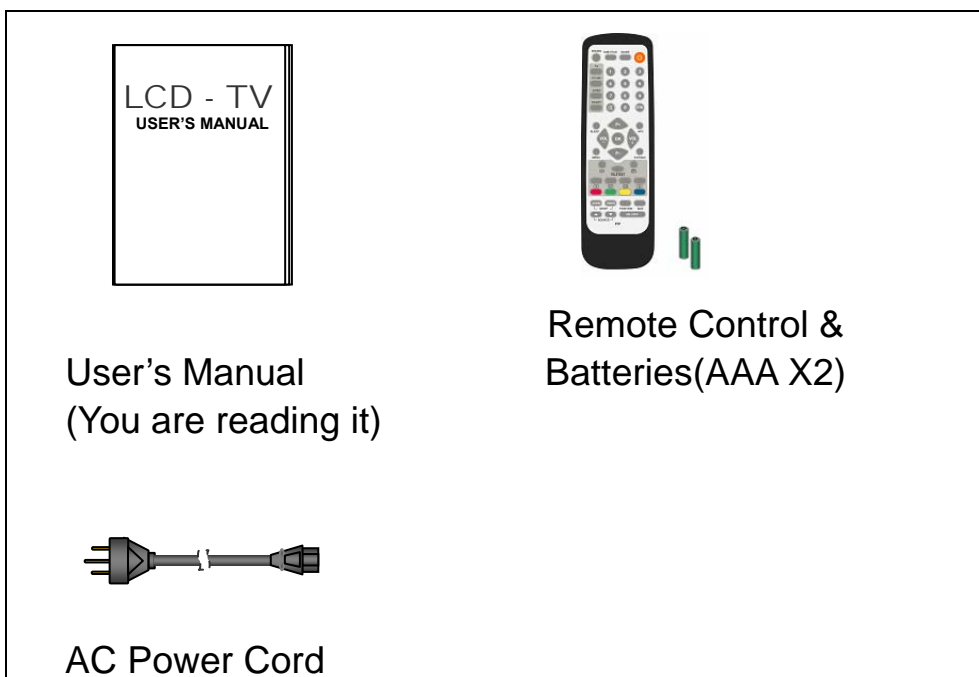
## Performance Characteristics

Advantages relating to CRT (cathode ray tube) display:

- Less space required
- Lighter weight
- Lower power consumption

# Box Contents

Please check that you have received the following items with your LCD display. If any following items are missing, please contact your nearby retailer

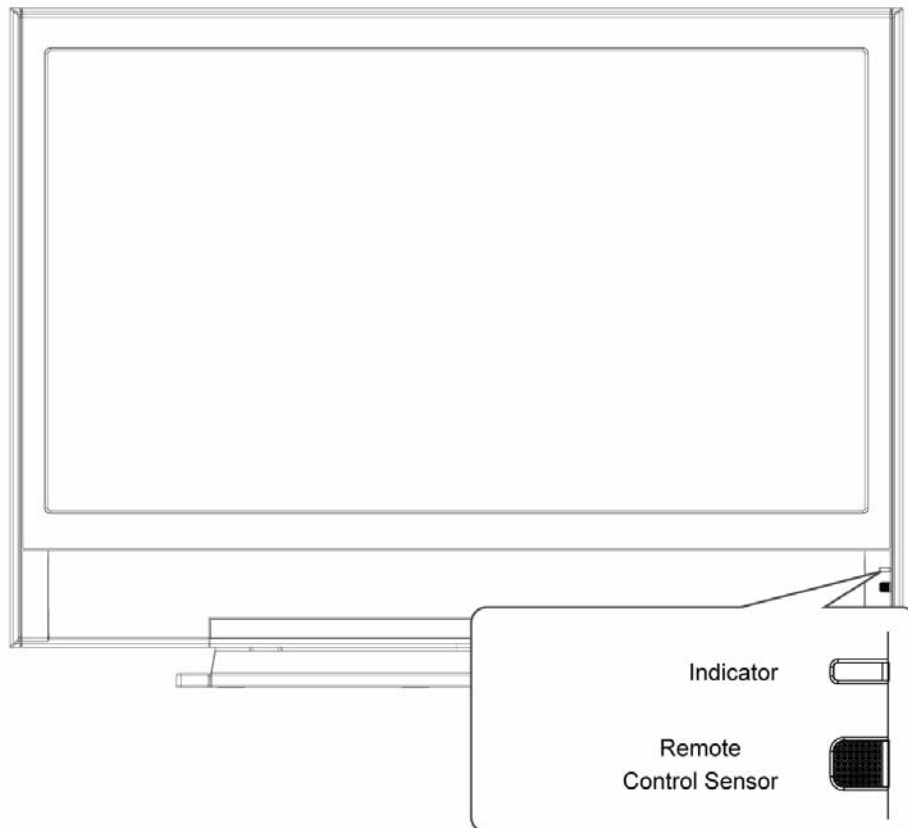


# Further Features

- The connection terminals include RF IN, D-SUB, HDMI, SCART 1 (CVBS, RGB), SCART 2 (CVBS, S-VIDEO, RGB), COMPONENT, CVBS and S-VIDEO.
- Easy-to-use remote control, and OSD (On-Screen Display) menu.
- Experience PIP (Picture in Picture).
- ARC (Aspect Ratio Control) settings include Auto image, 4:3, 16:9, 14:9, Panorama, and Zoom.
- APC (Automatic Picture Control) settings include Normal, Cinema, and Dynamic.
- A.P.S. (Auto Programming System) for automatic TV channel tuning and sorting.
- TELETEXT function is available.
- Child lock function is available.
- Built-in dual channel speakers.
- Automatic sleep timer ranges from 10 to 120 minutes in 10-minute increments.
- Provided component video input for high definition TV program, resolution up to 720p, 1080i.

# Overview of the TV

## Front Panel



### Indicator

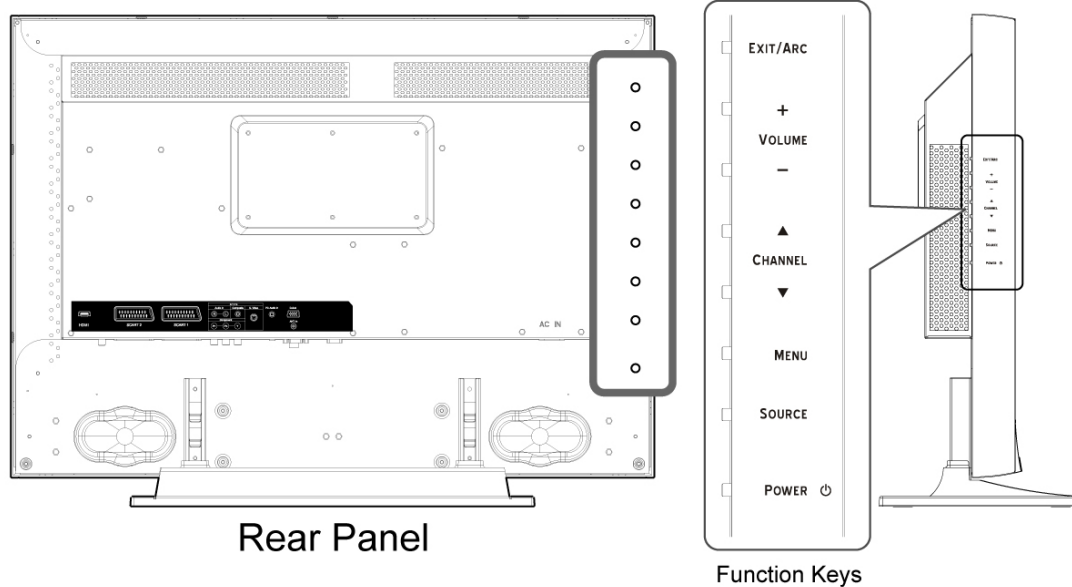
Indicator Lighting Status:

OFF (No power input)	Off
Standby	Red
Power on (TV / Video / PC mode)	Green
Standby active (only available in PC mode)	Amber

A green indicator lights when the power is on and an amber indicator lights when in the PC standby mode. A red indicator lights when in Standby mode.

### Remote Control Sensor

# Function Keys



## Function Keys (on the display panel):

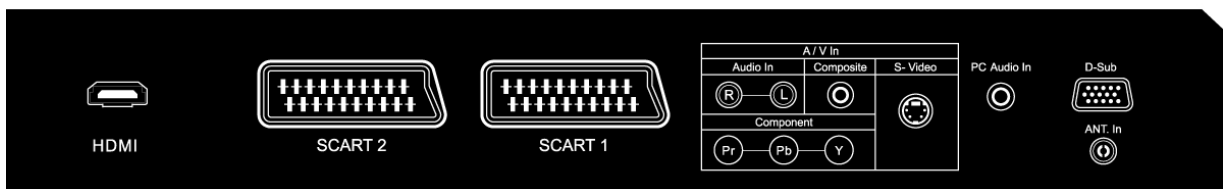
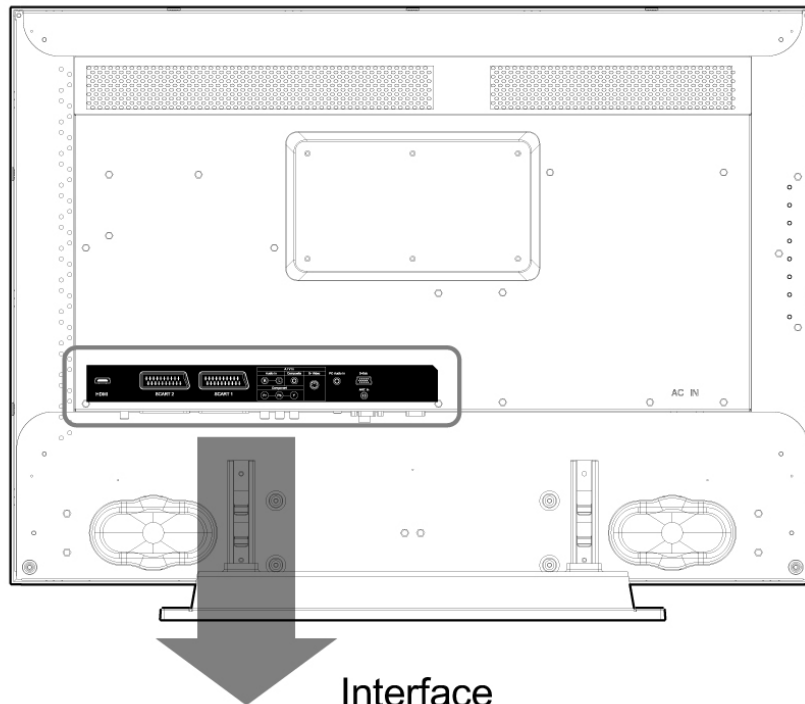
<b>EXIT / ARC</b>	<ul style="list-style-type: none"> <li>• Select the TV display mode to switch Auto Image / Panorama / 16:9 / 14:9 / 4:3 / Zoom.</li> <li>• When in <b>OSD</b> (On-Screen Display)* menu, press <b>EXIT / ARC</b> to close the OSD menu</li> </ul>
<b>- VOLUME +</b>	<ul style="list-style-type: none"> <li>• Increase or decrease the volume.</li> </ul>
<b>▼ CHANNEL ▲</b>	<ul style="list-style-type: none"> <li>• Change channels.</li> </ul>
<b>MENU</b>	<ul style="list-style-type: none"> <li>• Display the OSD main menu.</li> <li>• Return to previous menu when in OSD menu.</li> </ul>
<b>SOURCE</b>	<ul style="list-style-type: none"> <li>• Select input source TV / SCART1 / SCART2/ SCART2S/ CVBS/ S-VIDEO/ YUV/ HDMI/ VGA .</li> <li>• When OSD MENU is invoked, it will function as the "OK" key to set up a function or enter a sub-menu.</li> </ul>
<b>POWER</b>	<ul style="list-style-type: none"> <li>• Shift on or off the TV.</li> </ul>

### NOTE:

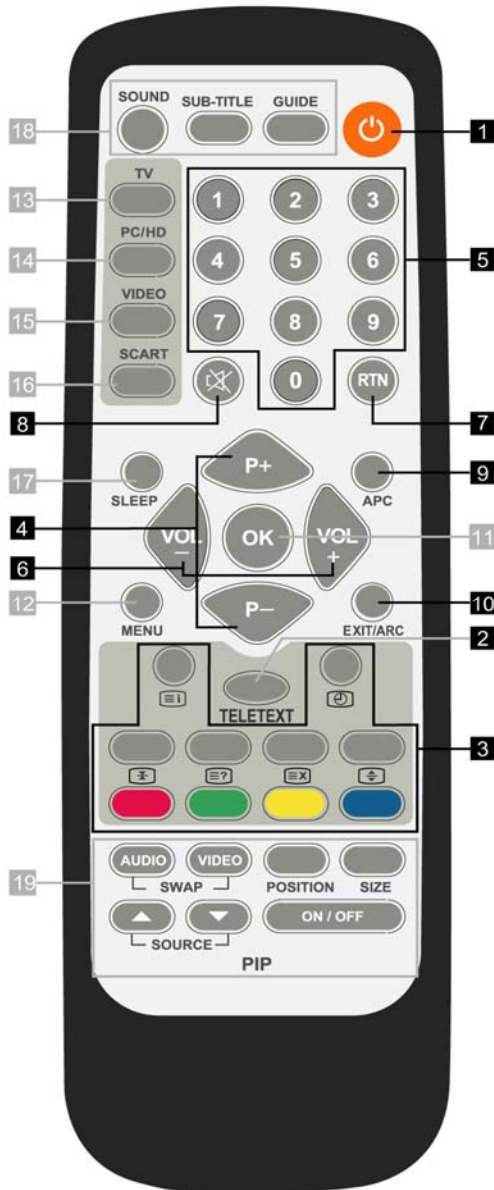
**Function Keys:** These buttons control your TV's basic features, and you may use these to adjust on-screen display (for example, items in the main menu or sub-menu). To use more advanced features, you must use the remote control.

# Connections: Rear Panel

## Rear Panel



# Remote Control



## 1 Power

Turn the TV on or off.

## 2 TELETEXT

Press the button to show the TELETEXT Service.

Toggle text modes between TEXT / MIX / PAT / OFF

## 3 INDEX

ATV (analogue): Return to Page 100 (TELETEXT reset).

## HOLD

Press "HOLD" button to stop the automatic TELETEXT page change.

## INTERRUPT

Press "INTERRUPT" button to switch to TV while waiting for the required text page.

## REVEAL

To display concealed information, such as solutions of riddles, puzzles, or a quiz.

## EXPAND

Press "EXPAND" button to enlarge the top half or bottom half of the TELETEXT page.

## TIME/SUB-PAGE

Press "TIME/SUB-PAGE" button to access to the sub-page you required.

## Red / Green / Yellow / Blue

ATV (analogue): To correspond with the topic. Page direct access for Teletext mode.

## 4 P + / P -

To change the channel.

## 5 0~9

Numeric buttons.

## 6 VOL + / VOL -

To Increase or decrease volume level.

## 7 RTN

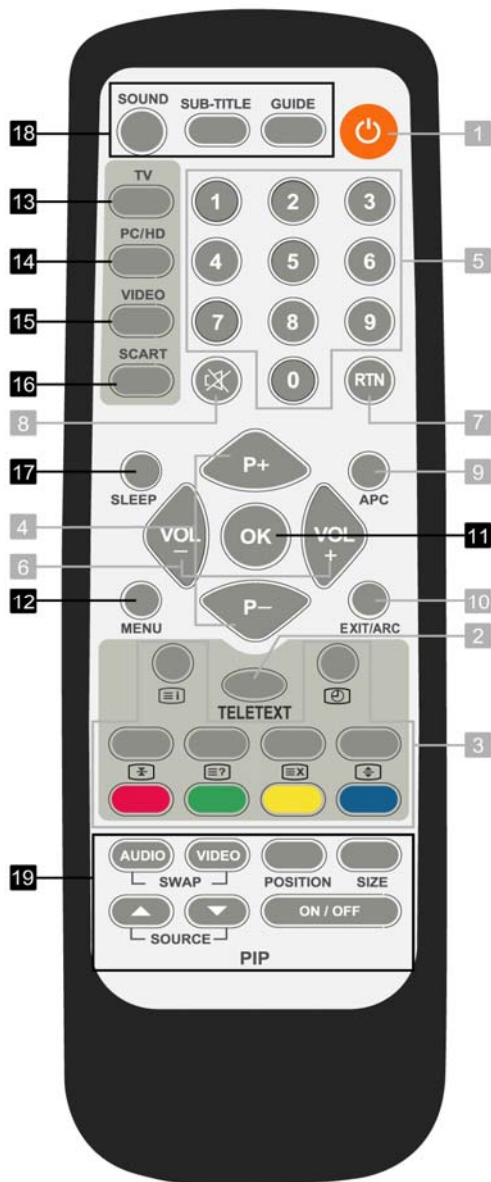
Return to the latest viewed channel or source

## 8 MUTE

Sound Mute On / Off

## 9 APC (Automatic Picture Control)

Toggle screens between Normal / Cinema / Dynamic.



### 10 EXIT/ARC (Aspect Ratio Control)

In OSD screen, to exit a menu or sub-menu.  
 In VGA (PC) mode, to toggle the picture mode between 16:9 / 4:3.  
 In Video mode, to toggle the picture mode between Auto Image / Panorama / 16:9 / 14:9 / 4:3 / Zoom

### 11 OK

In OSD screen, to set up a function or enter a sub-menu.

### P+/P-, VOL+/VOL-

In OSD screen, to access menu items.

### 12 MENU

Display the On-Screen Display (OSD) menu or return to a layer of menu.

### 13 TV

Select the TV mode.

### 14 PC/HD

Switch to VGA / HDMI mode

### 15 VIDEO

Switch to CVBS / S-VIDEO / YUV mode.

### 16 SCART

Switch to SCART1 / SCART2 / SCART2 S mode.

### 17 SLEEP

Select a pre-set timer for automatic power down.

### 18 SOUND

Select sound modes

### SUB-TITLE

In ATV mode, to show Information.  
 SUBTITLE button is used to show current set up of TV.

### GUIDE

In ATV mode, the button is navigator.  
 GUIDE button is used to show TV channel list.

### 19 PIP ON/OFF

Enable or disable PIP viewing picture.  
 Toggle PIP mode between PIP / OFF

### POSITION

Move the PIP sub-picture position.

### SIZE

Toggle the PIP sub-picture size between: Small / Middle / Large

### AUDIO/VIDEO SWAP

Toggle audio/video source between the main picture and the PIP sub picture.

### SOURCE $\Delta$ / $\nabla$

Select PIP input source: HDMI / TV / SCART1 / SCART2 / SCART2 S / CVBS / YUV / S-VIDEO



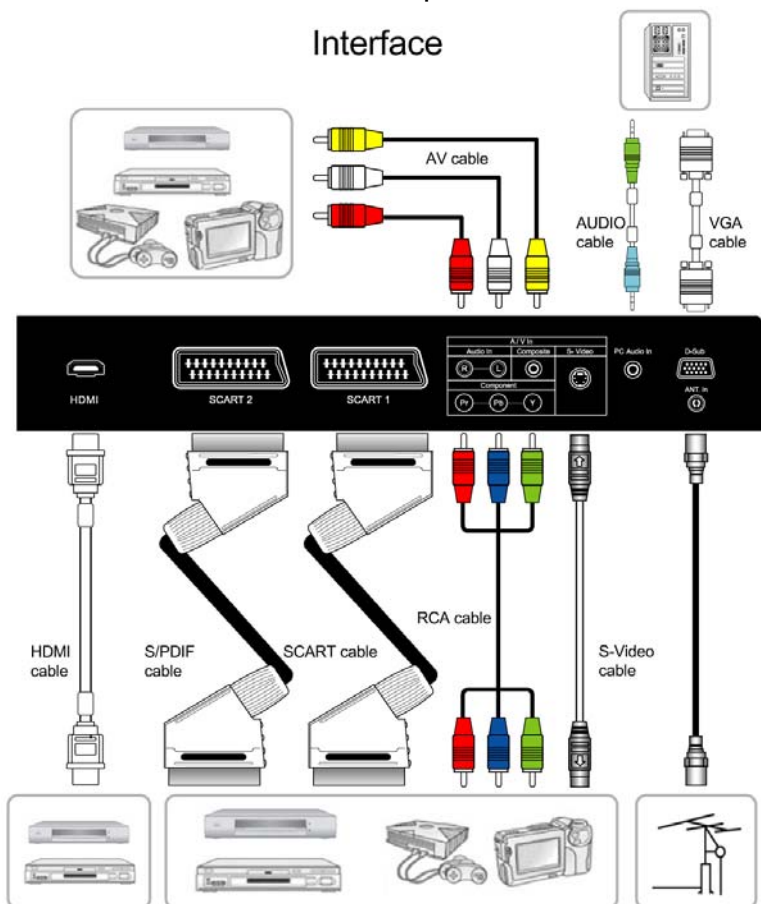
# Setting Up

## Connections

No cables are supplied with this TV. Cables are available from most high street TV/Audio stockists.

### Connecting video devices via AV cables

This TV accepts different video Inputs. Connecting to device connectors with better video quality will bring you better viewing enjoyment. The video quality sequence from the best to a normal one would be Component, SCART, S-VIDEO, and CVBS.



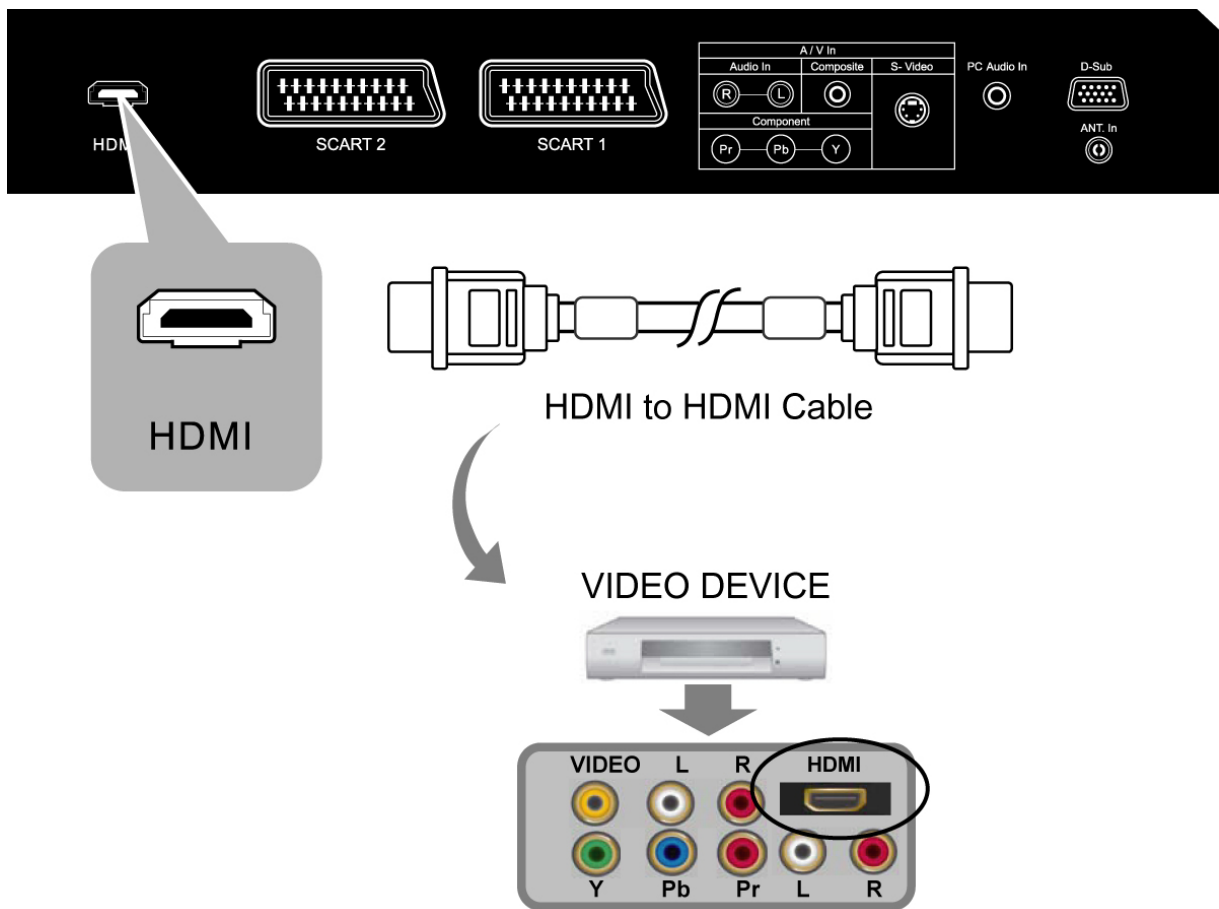
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#### NOTE:

- ANT IN: Antenna (aerial) In.
  - Connecting cables are not supplied. These can be purchased from most TV/HiFi retail outlets.
  - Connecting cables are not supplied.
-

## Connecting a video device via HDMI - HDMI

This can be applied only if there is an HDMI Output connector on the external device.

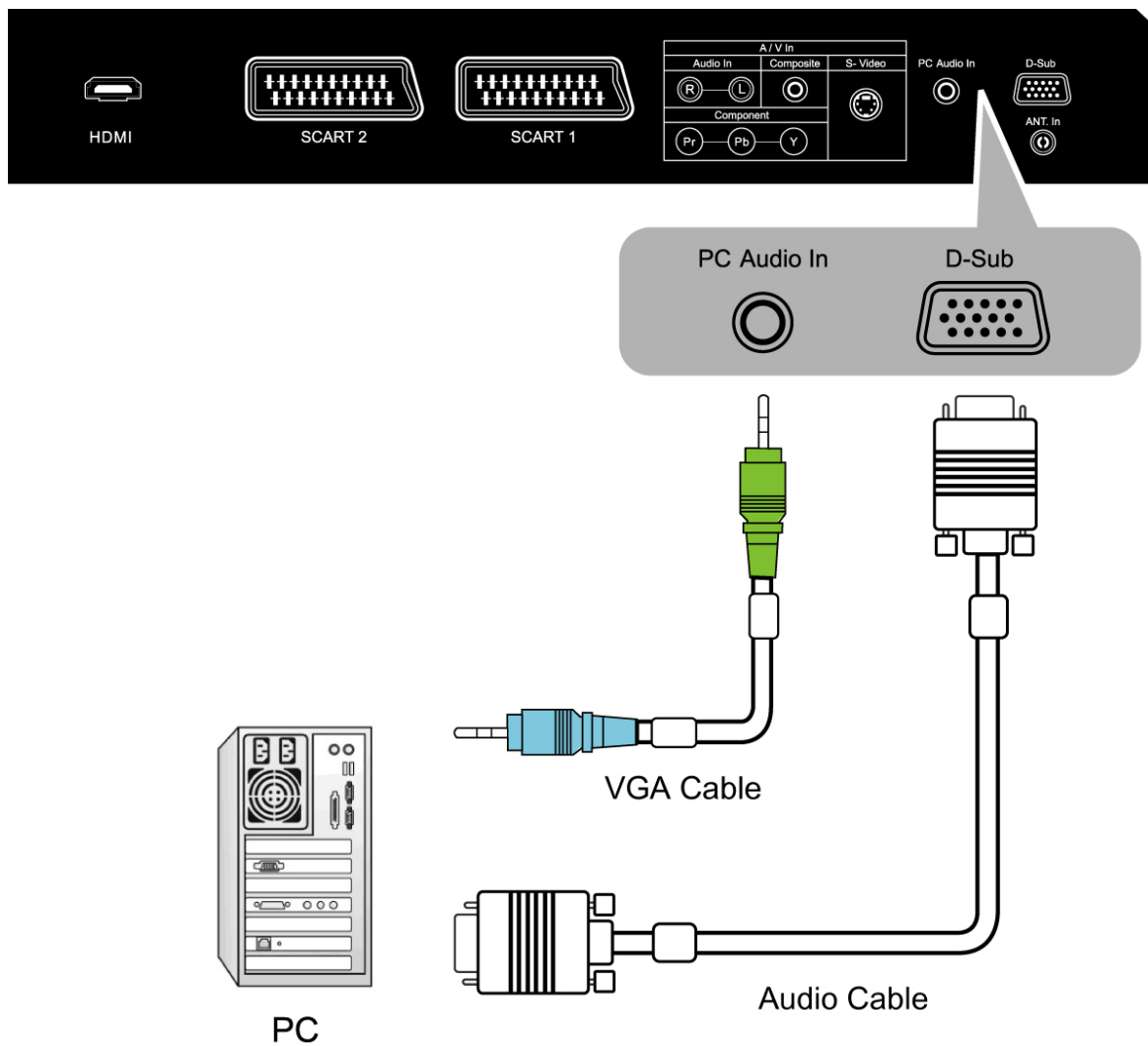


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### NOTE:

- **Video Devices:** DVD Player, Set-Top Box, Game Box...etc.
  - **HDMI:** High-Definition Multimedia Interface
  - No audio cable is needed when via HDMI to HDMI connection.
  - Connecting cables are not supplied.
-

# Connecting a PC via VGA cable



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## NOTE:

- To receive a display, connect a VGA cable between the **D-SUB** connector on the TV and the VGA connector on a PC.
  - To receive a sound, connect an audio cable between the **PC AUDIO IN** socket on the TV and AUDIO OUT jack on a PC.
  - Connecting cables are not supplied.
-

# Watching TV

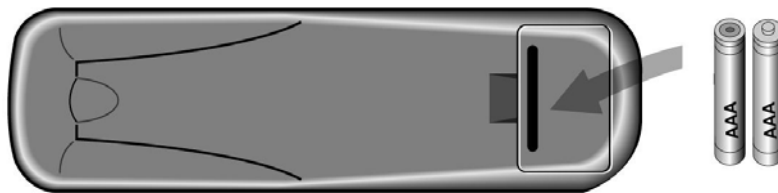
## Turning the LCD Display On and Off

### Turning On

After the LCD DISPLAY is connected, you can then turn on your LCD DISPLAY.

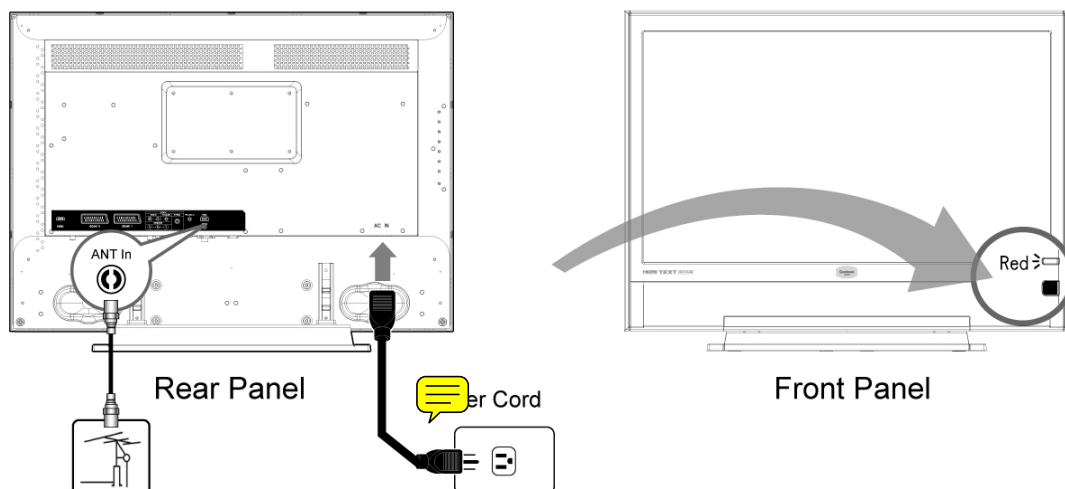
Follow the instructions below to turn the display on:

Step 1: Place supplied two (AAA) batteries into the remote control; make sure the batteries are oriented correctly.



The back of Remote control

Step 2: Connect the power cord into the AC IN located in the back of the display and the other end to the power outlet on the wall. The indicator on the bottom right side of the display will light up red at this moment. Connect your existing TV aerial to the aerial input socket on the rear panel of the TV.



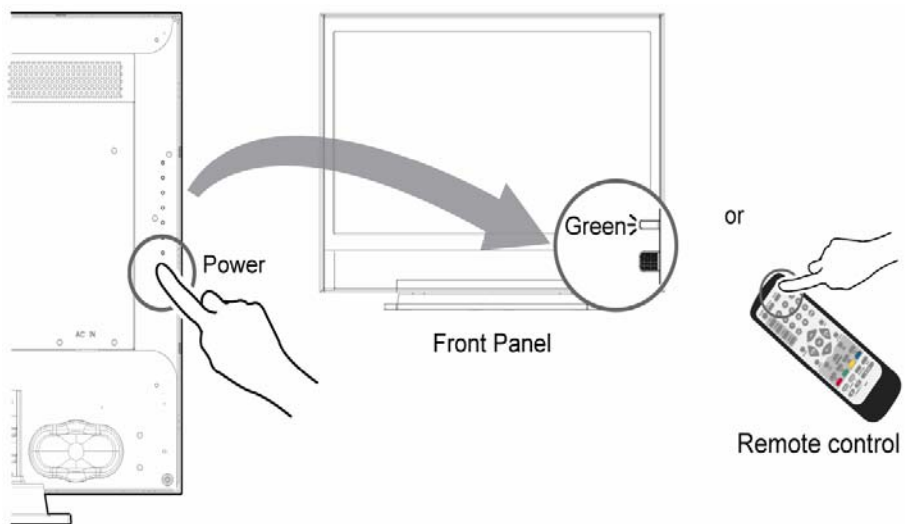
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### NOTE:

A red indicator lights, when the power cord is connected.

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Step 3. Press the **POWER** button in the back of the display, or press the **POWER** button of the remote control to switch on the display. The indicator will light up green.

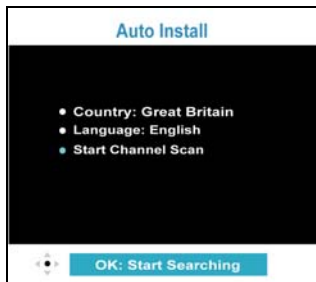


## Turning Off

When the TV is on, press the **POWER** button on the remote control to turn the TV off. After the TV is turned off, the indicator on the front will light up red.

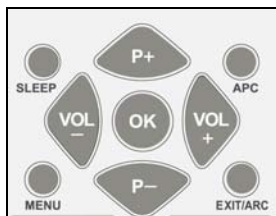
If you go away for a few days or will not use your TV for a long period of time, please unplug the power cord to turn the main power off.

## First Time Installation



When you switch on the TV for the first time, the **Auto Install** menu will appear automatically on the screen. (Please ensure your TV has an aerial cable connected.)

The whole Auto Install process will take around 2 minutes to complete.



1. Press **OK** to enter the **Scan Progress**.



**Channel Scan Progress** is completed, when Scan Progress reaches 100%. The TV resumes to normal operation.

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### **NOTE (The TV may be set up to operate in the following list of countries):**

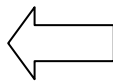
- **Country:** Austria, Belgium, Czech, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and Others.
  - **Language:** English, French, German, Spanish, Italian, Finnish, Swedish, Dutch, Danish and Norwegian.
-

# Source Buttons

## Switching TV / PC / HD / VIDEO / SCART Modes

1. Turn on the power.
2. Select an input source as described below.

### Source buttons



**TV** : switch to Analogue mode

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**PC/HD** : switch to VGA / HDMI mode

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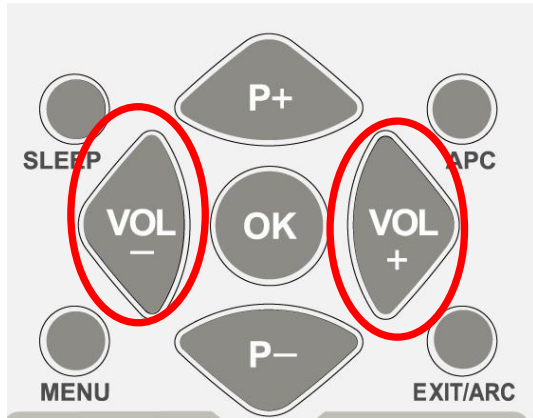
**VIDEO** : switch to CVBS / S-VIDEO / YUV mode (Composite, Y/C and Component signal)

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**SCART** : switch to SCART1 / SCART2 / SCART2 S

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## Volume Control



### Using Volume Control

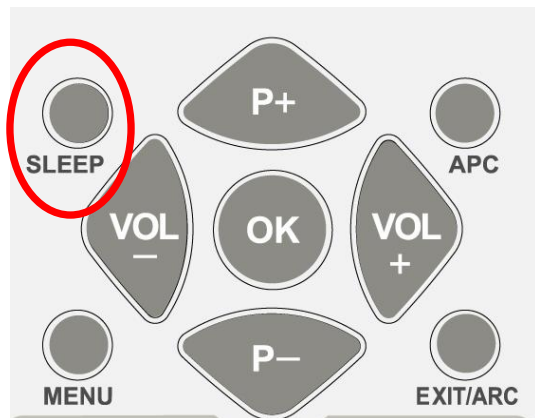
Press **VOL+** / **VOL-** to increase or decrease the sound volume.

### Using Mute

At any time, users can temporarily turn off the sound by pressing the **MUTE** button.

1. Press **MUTE** and the sound cuts off.
2. Press **MUTE** again or **VOL+** / **VOL-** to turn the sound back to the previous level.

## Setting the Sleep Timer



You can set the **Sleep Timer** to turn off the TV automatically. The timer can be set from 00 to 120 minutes in 10 minute intervals.

1. Press **SLEEP** to set the **Sleep Timer** screen.
2. Press **SLEEP** repeatedly to change the sleep timer.

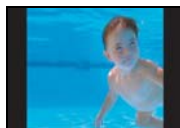




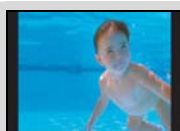
## ARC - Aspect Ratio Control

Press **ARC** to adjust different picture format on the screen. Please note: in some sources, some modes are only available.

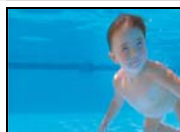
**Auto Image** : In this mode, the TV can automatically select the suitable broadcast mode.



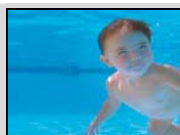
**4:3** : In this mode, will display traditional 4:3 broadcasts for non-wide screen in the correct proportions. There will be black strips at both sides of the screen.



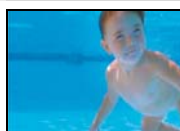
**14:9** : In this mode, will display 14:9 broadcasts in the correct proportions. There will be black strips at both sides of the screen.



**16:9** : This mode expands the width of 4:3 broadcasts evenly to fill the 16:9 screen.



**PANORAMIC** : Expands 4:3 broadcasts to fit the 16:9 screen by expanding the image at the edges of the screen. This creates less distortion at the centre of the screen.



**ZOOM** : Displays broadcasts in letter box format in the correct proportions. The top and bottom of the images are slightly cropped.



## APC - Automatic Picture Control

Press the **APC** button on the remote control repeatedly to cycle through the APC settings. The button adjusts the different screen brightness— Normal / Cinema / Dynamic

**Normal** : Select this mode in a normal environment.

**Cinema** : Select this mode in a dark environment.

**Dynamic** : Select this mode in a bright environment.

---

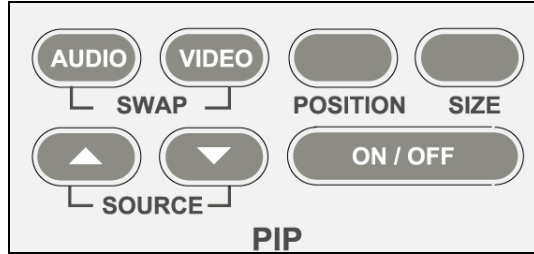
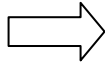
**NOTE:**

In VGA (PC) source, only the format of 16:9 and 4:3 modes are available.

---

# Picture in Picture (PIP) Functions

You can press the buttons on the remote to control the PIP functions.



**PIP control buttons**

- 
- |   |   |   |
|---|---|---|
| <b>ON / OFF</b>   | : | Press the button to select a mode of the PIP mode. Press repeatedly to change ON/OFF.                                 |
| <b>POSITION</b>   | : | Press the button to move the sub picture from corner to corner on the TV screen. Press repeatedly to change POSITION. |
| <b>SIZE</b>   | : | Press the button to select a size of the sub picture - Small / Middle / Large. Press repeatedly to change SIZE.       |
| <b>SWAP VIDEO</b>                                       | : | To interchange the picture of main source and sub source.   |
| <b>SWAP AUDIO</b>                                       | : | To interchange the voice of main source and sub source.   |
| <b>SOURCE <math>\Delta</math> / <math>\nabla</math></b> | : | To select a second source: HDMI / TV / SCART1 / SCART2 / SCART2 S / CVBS / YUV / S-VIDEO as the sub picture.          |
- 

**[OFF]:**



Only the main picture for main source. (No PIP)

**[PIP]:**



Show the sub picture on the main picture.

---

## NOTE:

- The status of peripherals, such as PCs and video equipment, must be **ON** beforehand, when you use PIP picture.
  - The LCD DISPLAY has to be connected two AV sources at least, and then PIP function can be activated.
  - To change channels in PIP picture, please change PIP picture to main picture.
  - The LCD TV has to be connected HDMI or YUV source, and then PIP function can be activated.
-

## PIP mode

This table shows what types of sources can work in main picture and PIP picture. “Main” means main source and “Sub” means sub source. The symbol “O” means both main source and sub source can operate.

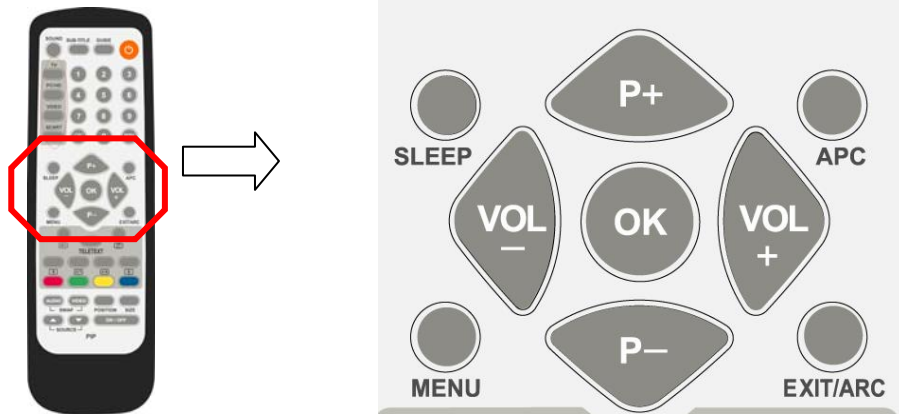
Sub Main	TV	SCART 1	SCART 2	SCART 2 S	CVBS	S-VIDEO	YUV	HDMI	VGA
TV	---	X	X	X	X	X	O	O	X
SCART1	X	---	X	X	X	X	O	O	X
SCART2	X	X	---	X	X	X	O	O	X
SCART2 S	X	X	X	---	X	X	O	O	X
CVBS	X	X	X	X	---	X	O	O	X
S-VIDEO	X	X	X	X	X	---	O	O	X
YUV	O	O	O	O	O	O	---	X	X
HDMI	O	O	O	O	O	O	X	---	X
VGA	O	O	O	O	O	O	X	X	---

# General Controls & Adjustment

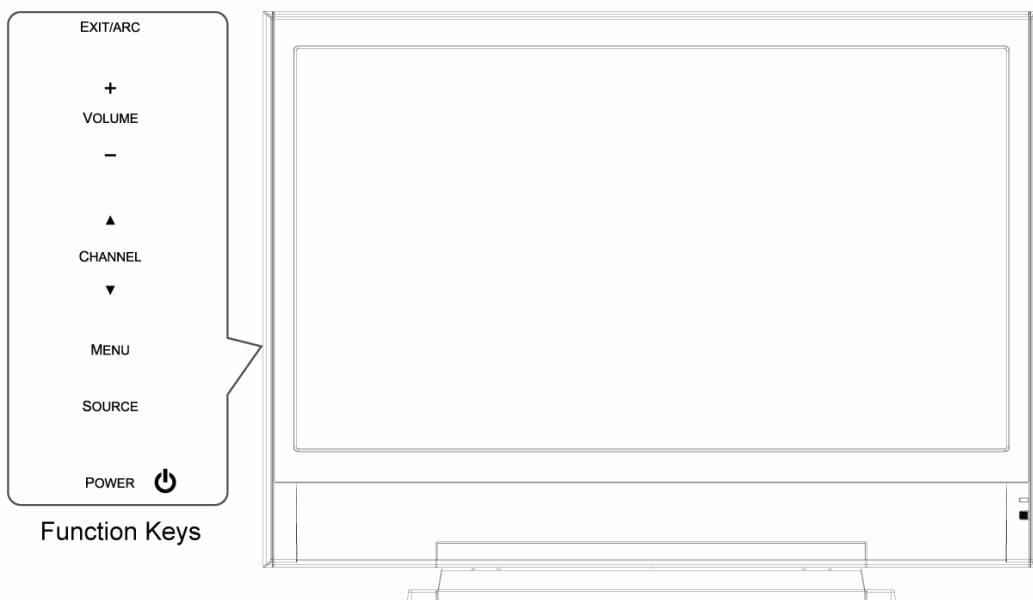
## How to control On-Screen Display (OSD)

OSD main menu can appear by pressing buttons either on remote control or the left side of the TV.

1. You can use the remote control buttons to open the **OSD** main menu and change the settings for the TV.



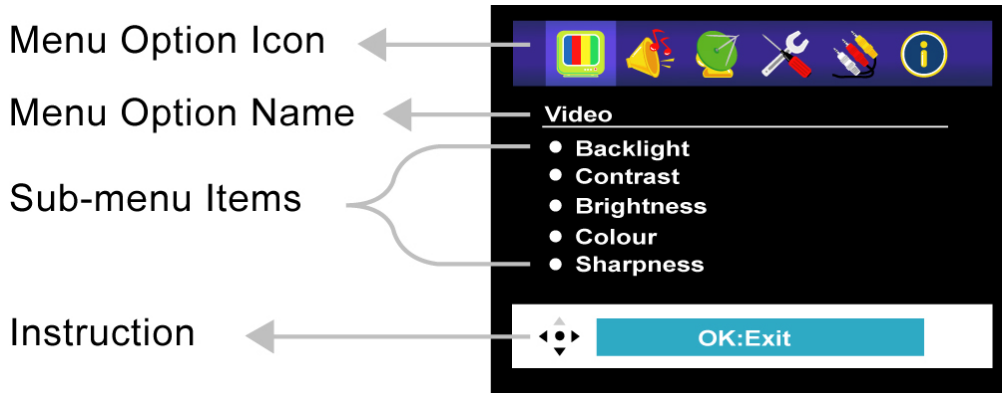
2. You can also use the buttons of the display to open the **OSD** main menu and adjust different settings for your TV.



Front Panel

# Viewing the On-Screen Display (OSD)

## Main menu



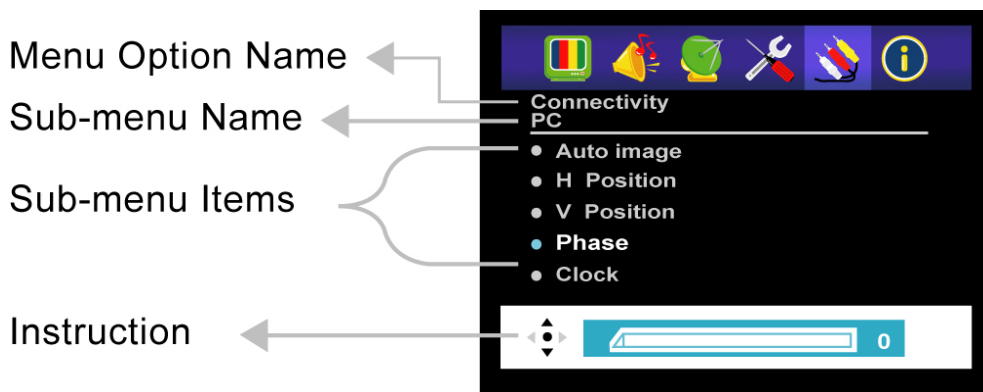
### Instruction



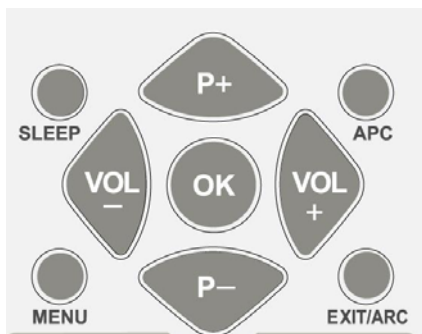
Use the left / right arrow buttons on the remote to select the menu option ICON. Then use the up / Down arrow button on the remote to move down the Sub menu items. Press the **OK** button to select the option.

## Sub-menu

Please **press OK** on the remote control, after selecting your preferred item in sub-menu.



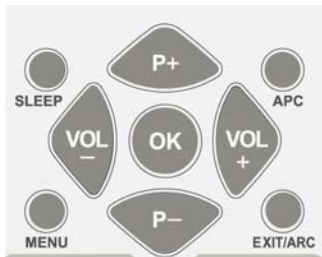
## How to use main menu and sub menu in OSD



1. With the power on, press **MENU** on the remote. The OSD (**On-Screen Display**) main menu appears.
2. Press **VOL-** or **VOL+** to horizontally select the main menu option and press **P-** to enter the sub menu option.
3. Press **P+** or **P-** to vertically select one sub-menu item, and then press OK to select.
4. Press **VOL-** or **VOL+** to make adjustments.
5. Press **MENU** to return to the Main menu.
6. Press **EXIT** to exit the menu.

# Picture Setting

You may need to perform separate adjustments for brightness and contrast for the different modes.

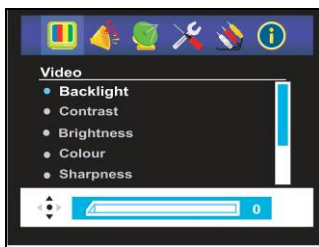


With the power on, in any mode.

1. Press Source button to choose desired source.
2. Press **MENU**.
3. Press **VOL-** or **VOL+** to select “**Video**” and press **P-**.
4. Press **P+** or **P-** to highlight one item. Press **OK** to enter the sub-menu.
5. Press **VOL-** or **VOL+** to make adjustments in the adjustment bar and press **OK**.
6. Press **MENU** to return to the main menu, or press **EXIT** to exit the menu.

## Main menu

(Corresponding to step 3)



## Adjustment Bar

(Corresponding to step 5)



## Video:

**Backlight** : Adjust the backlight level of the screen.

**Contrast** : Increase and decrease the picture contrast.

**Brightness** : Darken and brighten the picture brightness.

**Colour** : Deepen and lighten the picture colours.

**Sharpness** : Adjust the outline of pictures to make them more sharper or duller.

**Tint\*** : For skin tones to become purplish or greenish. (Only available when the video input is in NTSC format.)

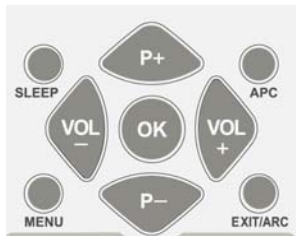
**Noise Reduction** : Decrease the picture noise in a weak signal. Switch to Auto / High / Mid / Low / Off.

## NOTE:

- It is best viewed with lower brightness and contrast settings in VGA mode.
- **Tint** is not used in UK.

# Sound Setting

Step 1

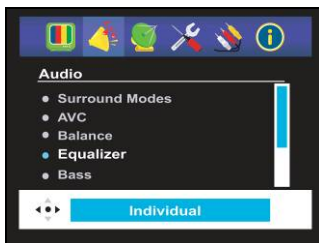


With the power on, in any mode.

1. Press Source button to choose desired source.
2. Press **MENU**.
3. Press **VOL-** or **VOL+** to select “**Audio**” and press **P-**.
4. Press **P+** or **P-** to highlight one item. Press **OK** to enter the Sub-menu.
5. Press **VOL-** or **VOL+** to make adjustments in the adjustment bar and press **OK**.
6. Press **MENU** to return to Main menu, or press **EXIT** to exit the menu.

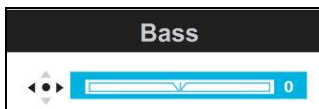
## Main menu

(Corresponding to step 2)



## Adjustment Bar

(Corresponding to step 5)



## Audio:

**Surround Modes** : You can choose different audio effects for your TV.

**AVC (Auto Volume Correction)** : This feature allows you to automatically adjust the volume by lowering the speaker output when the volume is high or by raising the speaker output when the volume is low. Switch to “**On**” or “**Off**” to enable or disable the AVC function.

**Balance** : Adjust the volume balance between the left and right speakers.

**Equalizer** : You can choose which Audio scenario you like.

<b>Neutral:</b> Present the original sound.
<b>Movie:</b> Emphasize the live sound for movies.
<b>Music:</b> Present enhanced sound quality for music.
<b>Individual*:</b> Customized sound mode.

Individual mode

**Bass:** Adjust Bass.

**Treble:** Adjust Treble.

## NOTE:

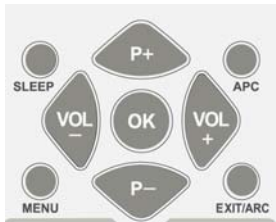
The “**Bass**” and “**Treble**” can be only adjusted when **Equalizer** is set in “**Individual**” mode.

# Tuning in TV Channels

Step 1



Step 2-7



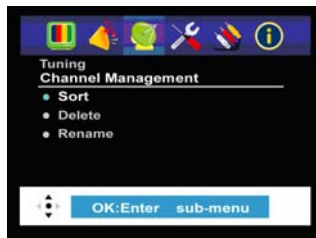
If you have moved location use this method to re-tune the TV stations.

1. Press **TV** Source Button.
2. Press **MENU** button.
3. Press **VOL-** or **VOL+** to select “**Tuning**” and press **P-**.
4. Press **P+** or **P-** to highlight APS. Press **OK** to enter the Sub-menu.
5. Press **P-** button to highlight “Start Channel Scan.”
6. Press **OK** to start TV tuning.

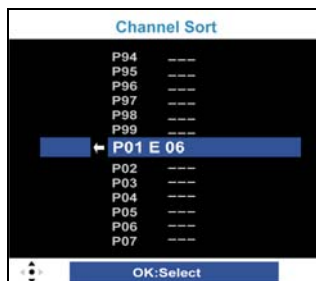
## Main menu



## Sub-menu



## Channel list



## Tuning:

**A.P.S.** : This function is to search and store all available channels. APS will only work in UK.

**Sub-menu** Country : Choose a country.

**Sub-menu** Start Channel Scan : Start scanning all channels.

**Channel Management** : Manage the channels to your own preferences.

**Sub-menu** Sort : Set the channel order according to your preference.

**Sub-menu** Delete : Delete the selected channel.

**Sub-menu** Rename : Rename the selected channel.

**Factory Reset** : You can reset all settings to their original default settings, except the scanned channels.

## NOTE:

Please refer to an example for the **Rename** function of Channel Management in page 29.



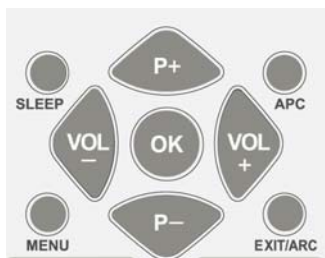
# Channel Management

## Rename

Step 1



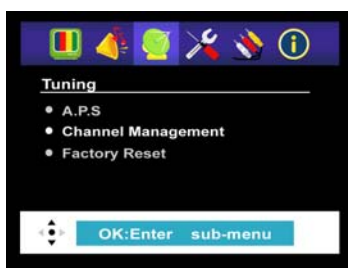
Step 2-8



1. Press **TV** Source button.
2. Press **MENU**.
3. Press **VOL-** or **VOL+** to select “**Tuning**” and press **P-**.
4. Press **P+** or **P-** to highlight “**Channel Management**”. Press **OK** to enter the Sub-menu.
5. Press **P-** to highlight “**Rename**”. Press **OK** to enter the **Channel Name**.
6. In the **Channel Name**, press **P+** or **P-** to select the programme you want to rename, and then press **OK** to edit name.
7. Press **VOL+** to enter the name display area (5 characters), and press **P+** or **P-** to choose the characters, and then press **OK** to confirm.
8. Press **MENU** to return to main menu, or press **EXIT** to exit the menu.

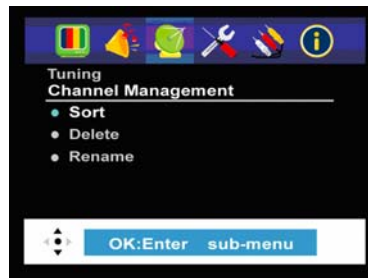
### Main menu

(corresponding to step 2)



### Sub-menu

(corresponding to step 4)



### Channel Name

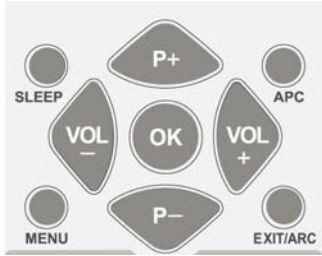
(corresponding to step 6)



### NOTE:

To **Sort** or **Delete**, please select your preferred item in the sub-menu and follow above steps.

# Child Lock in TV

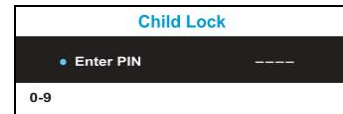
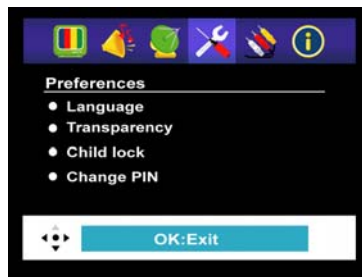


With the power on.

1. Press **MENU**.
2. Press **VOL-** or **VOL+** to select “**Preferences**” and press **P-**.
3. Press **P+** or **P-** to highlight “**Child Lock**” and press **OK**.
4. Press **VOL-** or **VOL+** to change the current status.
5. Enter the PIN (Personal Identification Number) by using numeric buttons (0~9), then finished.
6. If you want to exit the menu, press **EXIT**.

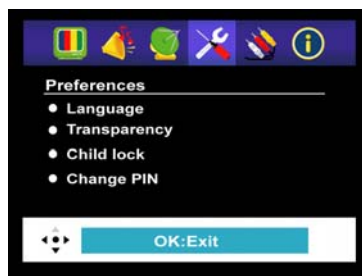
- (1) To set up child lock for the first time, please select Child Lock

## Main menu

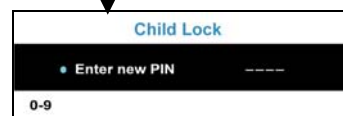
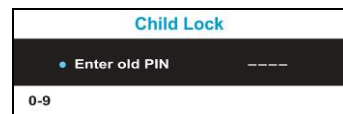


- (2) To change PIN (after setting up child lock, please select Change PIN))

## Main menu



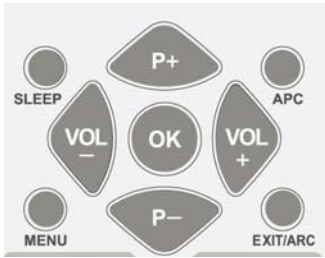
## Change PIN



### NOTE:

- The default PIN is “0000.”
- Memorize the new PIN code you entered; you have to enter the correct code that you had set most recently to renew it.
- If you want to remove the lock, you may follow above steps 1~5.

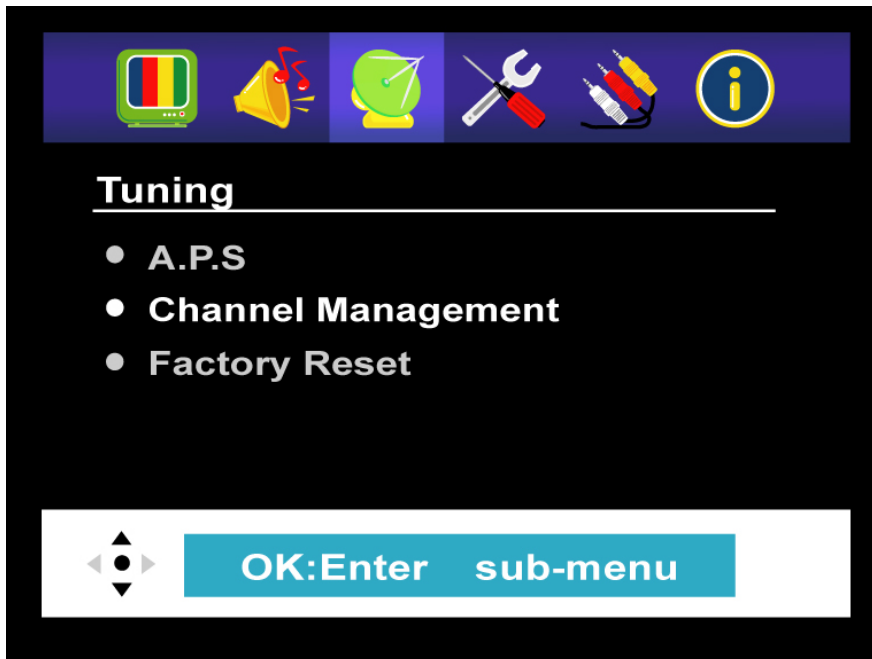
# Factory Reset



With the power on, in any mode

1. Press **SOURCE** button to choose desired source.
2. Press **MENU**.
3. Press **VOL-** or **VOL+** to select “**Tuning**” and press **P-**.
4. Press **P+** or **P-** to highlight “**Factory Reset**”. Press **OK** then finished.
5. If you want to exit the menu, press **EXIT**.

## Factory Reset



# Preferences



With the power on, in any mode.

1. Press Source button to choose your desired source.
2. Press **MENU**.
3. Press **VOL-** or **VOL+** to select “**Preferences**” and press **P-**.
4. Press **P+** or **P-** to highlight one item. Press **OK** to enter the Sub-menu.
5. Press **P+** or **P-** to highlight one item. Press **OK**. Press **VOL-** or **VOL+** to make adjustments, then press **OK** again.
6. Press **MENU** to return to Main menu, or press **EXIT** to exit the menu.

Main menu



## Preferences:

**Language:** Select language display of the OSD (On-Screen Display).

**Transparency:** Adjusts the transparency of the OSD.

**Child lock:** To lock some channels for the protective reason.

**Change PIN:** Create your own PIN.

(Refer to page 30 for instructions for Child Lock and Change PIN)

# Connectivity: PC / SCART Setting



With the power on, in VGA mode.

1. Press **PC/HD** of source buttons.
2. Press **MENU**.
3. Press **VOL-** or **VOL+** to select “**Connectivity**”.
4. Press **P-** to highlight “**PC**”, and then press **OK** to enter the Sub-menu.
5. Press **P+** or **P-** to highlight one item. Press **OK**.
6. Press **VOL-** or **VOL+** to make adjustments, then press **OK**.
7. Press **MENU** to return to the Main menu, or press **EXIT** to exit the menu.

## Main menu (in VGA mode)



## Sub-menu (in VGA mode)



## Connectivity:

**PC:** The item of PC in the main menu of Connectivity only appears in VGA mode.

- |  |  |
|--|--|
| Sub-menu                                 | Auto image:  |
|  | Automatically adjusts picture. You may follow steps 1-4, and then highlight “Auto image” → press OK. |
|  | H Position : Adjust the horizontal position of the picture.  |
|  | V Position : Adjust the vertical position of the picture.  |
|  | Phase : Adjust the picture phase.  |
| Clock : Adjust the width of the picture. |  |

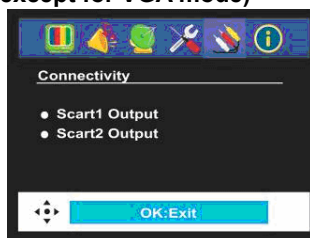
## Adjustment Bar



**Scart1 Output\*** : Output SCART1 signal - TV / CVBS / S-VIDEO

**Scart2 Output\*** : Output SCART2 signal - TV / CVBS / S-VIDEO

## Main menu (in any mode, except for VGA mode)



## NOTE:

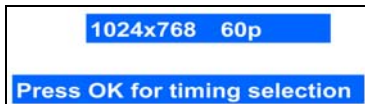
- Please switch to TV mode in Scart1/2 Output, when Canal+ is connected.
- If the screen ratio is not shown properly after the selection of Auto Image, users have to use H position, V Position, Phase or Clock to readjust the picture.
- If your resolution is 1024x768, 1280x768, 1360x768, 640x350 or 720x400, please refer to "Resolution Adjustment" in page 38 to select proper resolution.

---

## Resolution Adjustment

This message of your current PC resolutions and frequency appears, when PC is connected.

---



With the power on, with PC connected.

Press **P+** or **P-** in the remote control to highlight one item.

Press **OK** in the remote control.

### Note:

1. The picture of “Wide mode selection” will appear in some specific PC resolutions of 1024x768, 1280x768 1360x768 and 640x350, 720x400.
  2. Auto mode is strongly recommended.
- 

## Information



With the power on, in any mode.

1. Press Source button to choose desired source.
2. Press **MENU**.
3. Press **VOL-** or **VOL+** to select “**Information**”.
4. Press **OK** or **MENU** or **EXIT** to exit the menu.

You can also use the “SUB-TITLE” key on remote control to invoke the “**Information**”.

---

### Main menu



### Information:

**Panel Res.** :Displays the panel resolution of the TV.

**Main Source** :Displays the main picture source.

**Main Format** :Main picture input format.

**Sub Source** :Displays the sub picture source.

**Sub Format** :Sub picture input format.

**Sound Mode** :Displays the sound mode information.

**APC Mode** :Displays the APC mode information.

**ARC Mode** :Displays the ARC mode information.

# TELETEXT

TELETEXT is an information service broadcast by TV stations which gives up-to-the-minute information, news, weather, television programs, share prices, subtitles, and so on.

This TV has 100 Teletext page number memories.

## TELETEXT Operation

Step1. Select a TV station.

Step2. Press **TELETEXT** on the remote to make the TELETEXT screen appear.

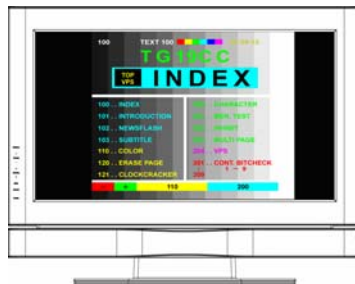
Display: Two page numbers, TV station name, date, and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page being displayed.

Step3. Press **TELETEXT** to toggle text mode between TEXT / MIX / PAT / OFF.

TEXT mode



MIX mode



PAT mode



# TELETEXT Page Selection

Step1. Enter the required TELETEXT page as a three digit number.

Display: The selected page number is displayed at the top left corner of the screen. The TELETEXT page counter searches until the selected page number is located, so that the desired page is displayed on the screen.

Step2.



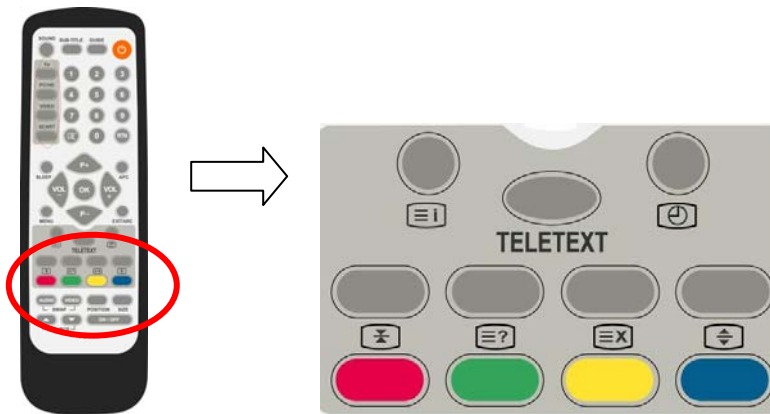
can be used to select the preceding or following page. In addition, you may press numeric buttons or use fasttext buttons to select.

Step3. Fasttext movement by the **4 coloured buttons** on the remote.

Display: Four subject-heading pages can be selected quickly by pressing the corresponding coloured buttons **Red / Green / Yellow / Blue** on the remote control handset.

## Useful features for TELETEXT

Buttons on remote control for TELETEXT mode





## **INDEX**

Press the button on the remote to select the index page that displays the list of TELETEXT contents.

## **REVEAL**

Step1. Press this button once to display concealed information, such as solutions to riddles, puzzles, or a quiz.

Step2. Press this button again to conceal the revealed answers.

## **TIME**

Step1. While watching a TV program with TELETEXT transmission, press the button. The current time information will be displayed on the upper centre corner of the screen.

Step2. The time information will disappear after pressing the button again.

### **Sub-Page**

Press the button to stop the running page and enter your subpage number.

## **HOLD**

The TELETEXT page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time on a sub-page.

Step1. Press the button on the remote to stop the automatic page change.

Display: The **STOP** symbol will be displayed at the top left-hand corner on the screen and the automatic page change will be stopped.

Step2. Press the button again to continue.



## **INTERRUPT**

In the TELETEXT mode, pressing the button on the remote will switch the screen to the TV mode while waiting for the text page you required.

Step1. Select required page number in TELETEXT mode.

Step2. Press the button on the remote to switch to TV mode while waiting for the text page. A small blue box in which “???” shows appears in the upper left corner.

Step3. When the required text page is found, the required page number appears in the blue box.

Step4. Press the button again to revert to TELETEXT mode.



## **EXPAND**

Select double height text.

Step1. Press this button to enlarge the top half of the page.

Step2. Press this button again to enlarge the bottom half of the page.

Step3. Press this button again to return to the normal display.

---

### **NOTE:**

No OSD adjustment will be available in TELETEXT mode.

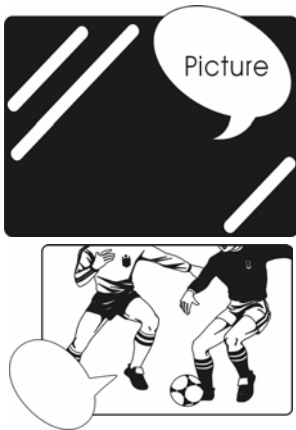
---

# Troubleshooting

Here are some tips to solve some common problems. If your problem still exists, please contact your nearby retailer directly.

---

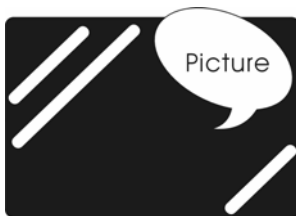
## There is no picture and sound.



- ❑ Make sure the power cord is properly connected.
- ❑ Make sure the input mode is set correctly.

---

## There is no picture (in AV mode).



- ❑ Make sure the Contrast/ Brightness is properly adjusted.
- ❑ Make sure all external devices are connected properly.

---

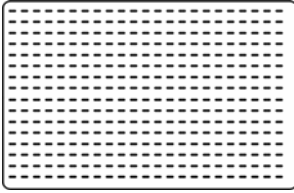
## There is no sound.



- ❑ Make sure the volume is not set to minimum.
- ❑ Make sure the sound is not set to mute.

---

**There is no picture or sound, just noise.**



- ❑ The reception may be weak.
- ❑ Make sure the aerial is not disconnected.

---

**The picture is not clear.**



- ❑ The reception may be weak.
- ❑ Make sure the aerial is not disconnected.

---

**The picture is too bright.**



- ❑ Check Contrast/Brightness adjustment.
- ❑ Check the APC (Auto Picture Control) function setting.

---

**The picture is too dark.**



- ❑ Check the APC function setting.
- ❑ Check Contrast/Brightness adjustment.

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**The picture is jittery**



- ❑ Make sure the TV set isn't near microwave oven or other equipment.

---

### The picture has double or triple image.



- ❑ Make sure the aerial is facing the right direction.
- ❑ There may be reflected signals from mountains or buildings.

---

### The picture is spotty.



- ❑ There may be interference from automobiles, trains, high voltage lines, neon lights, etc.

---

### Remote control does not work.



- ❑ Check the batteries in the remote control are not flat.
- ❑ Make sure the remote control sensor of TV set is not under strong lighting.

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### There are stripes on the screen or colours fade.



- ❑ Is the unit receiving interference from other devices?
- ❑ Transmission of radio broadcasting station and transmission of amateur radio and cellular phones may also cause interference.
- ❑ Place the unit as far apart as possible from devices that may cause possible interference.

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### The picture is not sharp

- ❑ Check the colour adjustment.
- ❑ Check the Sharpness adjustment.



*Note: If none of the previous suggestions seem to work, try switching your Television off and then on again.*

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**WARNING!** If this does not work, contact either your supplier or a qualified television repair technician. Never attempt to repair a TelevisionPlayer yourself.

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# Safety and Regulatory Information

## Repair

- Leave all repairs of your LCD display to **authorised and qualified personnel** only.
- Should a repair be necessary, please contact one of our authorized **service partners** only.

## Notes for Service Engineers

- Before opening the housing, **disconnect the product from all power sources and remove any connecting cables**. If the display has not been disconnected from the power outlet before being opened, there is a **danger to life** through electric shock. There is also a risk of damage to the components.
- Internal components of the LCD display may be damaged by **electrostatic discharge (ESD)**. Carry out repairs in an **ESD-protected workshop**. If no such workshop is available, wear an **antistatic wrist strap** or touch a highly conductive metal object. We can repair damage sustained by inappropriate handling for a fee.
- Use only **original spare parts**.

## Environmental conditions

- The LCD display can be operated most reliably at ambient temperatures between **+41°F** and **+95°F** (5° C to 35° C) and at a relative humidity between 20% and 85% (without condensation).
- When switched off, the LCD display can be stored most reliably between **-4°F** and **+140°F** (-20° C - +60° C), up to a maximum height of 39,000 ft (12,000 m) above sea level at a relative humidity between 10% and 85% (without condensation).
- After transporting your LCD display please wait until it has reached the ambient temperature before connecting and switching it on. Extremely high variations in the temperature or humidity may result in **condensation** forming on the inside of the LCD display which could cause an **electrical short-circuit**.

# PC Input Preset Timing Table

No.	Mode Name Resolution	H.Freq.(KHZ) V.Freq.(HZ)	H. Polarity V. Polarity	Pixel CLK (MHZ)	Hor. Total CLK No.	Hor. Display CLK No.	Hor. Back Porch CLK No.	Hor. Sync. Width CLK No.	Vert. Total Line No.	Vert. Display Line No.	Vert. Back Porch Line No.	Vert. Sync Width Line No.
1	VGA 70HZ 640*350	31.469 70.087	+ -	25.175	800	640	48	96	449	350	60	2
2	VGA 60HZ 640*480	31.469 59.941	- -	25.175	800	640	48	96	525	480	33	2
3	SVGA 60HZ 800*600	35.16 56.25	+ +	36.0	1024	800	128	72	625	600	22	2
4	SVGA 60HZ 800*600	37.879 60.317	+ +	40.0	1056	800	88	128	628	600	23	4
5	XGA 60HZ 1024*768	48.363 60.004	- -	65.0	1344	1024	160	136	806	768	29	6
6	XGA 70HZ 1024*768	56.476 70.069	- -	75.0	1328	1024	144	136	806	768	29	6
7	MAC VGA 640*480	35.0 66.667	- -	30.24	864	640	96	64	525	480	39	3
8	US TEXT 720*400	31.469 70.087	- +	28.322	900	720	54	108	449	400	35	2
9	WXGA 1280*768	47.73 60	- +	80	1676	280	198	136	795	768	23	3
10	WXGA 1360*768	47.7 60	+ +	85.5	1792	1360	256	112	795	768	18	6

The above table is only for your reference. Messages shown in LCD DISPLAY will be varied according to types of PC and their resolutions.

# Specifications

<b>Model</b>		GTVL32W25HD	
<b>Screen Size (diagonal)</b>		32"	
<b>Audio Output</b>		10W x 2	
<b>Aspect Ratio</b>		16:9	
<b>TV System</b>		PAL / SECAM / DVB-T	
<b>Video Playback</b>		PAL / SECAM / NTSC	
<b>Panel Resolution</b>		1366 x 768 (WXGA) @ 60Hz	
<b>Connectivity</b>	<b>Interface (Rear)</b>	Audio & Video In (S-Video, Component, Composite, Audio L/R), Antenna In, SCART 1, SCART 2, HDMI, D-SUB, PC AUDIO IN	
<b>Teletext</b>		100 pages	
<b>Power Supply</b>		AC 100V~240V, 50/60Hz	
<b>Power consumption</b>		<190 W	
<b>Standby power consumption</b>		< 5 W	
<b>Set dimensions (with stand)</b>		<b>Width</b>	764.60 mm
		<b>Height</b>	582.00 mm
		<b>Depth</b>	240.00 mm
<b>Feature</b>	<b>Function Keys</b>	Power , Source , Menu , Up/Down(Channel) +/- (Volume) , ARC/EXIT .	
	<b>Video Performance</b>	3D Comb-filter, 3D De-interlace, Canal Plus, Teletext, Aspect Ratio Control (ARC) , Auto Picture Control (APC), Video Enhance, Noise Reduction, Picture in Picture (PIP)	
	<b>Audio Performance</b>	Equalizer, Subwoofer, Auto Volume Control	
<b>Net Weight (with stand)</b>		19 kg	
<b>Environmental Considerations</b>	<b>Operating Temperature</b>	5°C to 35°C (41°F to 95°F)	
	<b>Operating Humidity</b>	20 % to 85%, non-condensing	
	<b>Storage Temperature</b>	-20°C to 60°C (-4°F to 140°F)	
	<b>Storage Humidity</b>	10 % to 85%, non-condensing	

The actual design and specifications are subject to change without further notice.

We preserve the right of any corrections or errors in this manual.

PD.VA-11'06

E030057263



# TV Signal Systems

Country	VHF	UHF
AFGHANISTAN	PAL/SECAM B	
ALBANIA	PAL B	PAL G
ALGERIA	PAL B	PAL G
ANGOLA	PAL I	
ARGENTINA	PAL N	PAL N
AUSTRALIA	PAL B	PAL G
AUSTRIA	PAL B	PAL G
AZORES	PAL B	
BAHAMAS	NTSC M	
BAHRAIN	PAL B	PAL G
BANGLADESH	PAL B	
BARBADOS	NTSC M	
BELGIUM	PAL B	PAL H
BERMUDA	NTSC M	
BOLIVIA	NTSC M	NTSC M
BOTSWANA	PAL I	
BRAZIL	PAL M	PAL M
BRUNEI	PAL B	PAL B
BULGARIA	SECAM D	SECAM K
BURKINA FASO	SECAM K1	
BURMA	NTSC M	
BURUNDI	SECAM K1	
CAMBODIA	NTSC M	
CAMEROON	PAL B	PAL G
CANADA	NTSC M	NTSC M
CANARY ISLANDS	PAL B	
CHAD	SECAM K1	

<b>Country</b>	<b>VHF</b>	<b>UHF</b>
CHILE	NTSC M	NTSC M
CHINA	PAL D	
COLOMBIA	NTSC M	NTSC M
COSTA RICA	NTSC M	NTSC M
CUBA	NTSC M	NTSC M
CYPRUS	PAL B	PAL G
CZECH REPUBLIC	PAL D	PAL K
DAHOMY	SECAM K1	
DENMARK	PAL B	PAL G
DOMINICAN REP	NTSC M	NTSC M
ECUADOR	NTSC M	NTSC M
EGYPT	SECAM B/PAL B	SECAM G/PAL G
EL SALVADOR	NTSC M	NTSC M
EQUAT. GUINEA	PAL B	
ESTONIA	PAL B	PAL D
ETHIOPIA	PAL B	PAL G
FIJI	PAL B	
FINLAND	PAL B	PAL G
FRANCE	SECAM L	SECAM L
FRENCH POLYNESIA	SECAM K1	
GABON	SECAM K1	
GAMBIA	PAL I	
GERMANY	PAL B	PAL G
GHANA	PAL B	PAL G
GIBRALTAR	PAL B	PAL H
GREECE	PAL B	PAL G
GREENLAND	NTSC/PAL B	

<b>Country</b>	<b>VHF</b>	<b>UHF</b>
GUADELOUPE	SECAM K1	
GUAM	NTSC M	
GUATEMALA	NTSC M	NTSC M
GUINEA	PAL K	
GUYANA (FRENCH)	SECAM K1	
HONDURAS	NTSC M	NTSC M
HONG KONG	--	PAL I
HUNGARY	SECAM D/PAL	SECAM K/PAL
ICELAND	PAL B	PAL G
INDIA	PAL B	
INDONESIA	PAL B	PAL G
IRAN	SECAM B	SECAM G
IRAQ	SECAM B	
IRELAND	PAL I	PAL I
ISRAEL	PAL B	PAL G
ITALY	PAL B	PAL G
IVORY COAST	SECAM K1	
JAMAICA	NTSC M	
JAPAN	NTSC M	NTSC M
JORDAN	PAL B	PAL G
KENYA	PAL B	PAL G
KOREA NORTH	PAL	
KOREA SOUTH	NTSC M	NTSC M
KUWAIT	PAL B	
LATVIA	PAL D	PAL K
LEBANON	SECAM B	SECAM G
LIBERIA	PAL B	PAL H
LIBYA	SECAM B	SECAM G
LITHUANIA	PAL D	PAL K

<b>Country</b>	<b>VHF</b>	<b>UHF</b>
LUXEMBOURG	PAL B/SECAM L	PAL G/SEC L
MADAGASCAR	SECAM K1	
MADEIRA	PAL B	
MALAGASY	SECAM K1	
MALAWI	PAL B	PAL G
MALAYSIA	PAL B	
MALI	SECAM K1	
MALTA	PAL B	PAL H
MARTINIQUE		SECAM K1
MAURITANIA	SECAM B	
MAURITIUS	SECAM B	
MEXICO	NTSC M	NTSC M
MONACO	SECAM L	
MONGOLIA	SECAM D	
MOROCCO	SECAM B	
MOZAMBIQUE	PAL B	
NETHERLANDS	PAL B	PAL G
NETH. ANTILLES	NTSC M	NTSC M
NEW GUINEA	PAL B	PAL G
NEW ZEALAND	PAL B	PAL G
NICARAGUA	NTSC M	NTSC M
NIGER	SECAM K1	
NIGERIA	PAL B	PAL G
NORWAY	PAL B	PAL G
OMAN	PAL B	PAL G
PAKISTAN	PAL B	
PARAGUAY	PAL N	PAL N
PERU	NTSC M	NTSC M
PHILIPPINES	NTSC M	NTSC M

<b>Country</b>	<b>VHF</b>	<b>UHF</b>
POLAND	PAL D	PAL K 2
PORTUGAL	PAL B	PAL G
PUERTO RICO	NTSC M	NTSC M
QATAR	PAL B	
REUNION	SECAM K1	
RUMANIA	PAL D	PAL K
RUSSIA	SECAM D	SECAM K
RWANDA	SECAM K1	
SABAH/SAWARA	PAL B	
ST. KITTS	NTSC M	NTSC M
SAMOA (US)	NTSC M	
SAUDI ARABIA	SECAM-B/PAL-B	SECAM G
SENEGAL	PAL	
SEYCHELLES	PAL B	PAL G
SIERRA LEONE	PAL B	PAL G
SINGAPORE	PAL B	PAL G
SLOVAK REPUBLIC	PAL	PAL
SOMALIA	PAL B	PAL G
SOUTH AFRICA	PAL I	PAL I
SPAIN	PAL B	PAL G
SRI LANKA	PAL B	
SUDAN	PAL B	PAL G
SURINAM	NTSC M	NTSC M
SWAZILAND	PAL B	PAL G

<b>Country</b>	<b>VHF</b>	<b>UHF</b>
SWEDEN	PAL B	PAL G
SWITZERLAND	PAL B	PAL G
SYRIA	SECAM B	
TAHITI	SECAM K1	
TAIWAN	NTSC M	NTSC M
TANZANIA	PAL B	PAL B
THAILAND	PAL B	
TOGO	SECAM K	
TRINIDAD TOBAGO	NTSC M	NTSC M
TUNISIA	SECAM B	5
TURKEY	PAL B	PAL G
SAUDI ARABIA	SECAM-B/PAL-B	SECAM G
UGANDA	PAL B	PAL G
UNITED ARAB EMIR.	PAL B	PAL G
UPPER VOLTA	SECAM K1	
URUGUAY	PAL N	PAL N
USA	NTSC M	NTSC M
VENEZUELA	NTSC M	NTSC M
VIETNAM	PAL B	PAL G
YEMEN	PAL B	
YUGOSLAVIA	PAL B	PAL G
ZAIRE	SECAM K1	
ZAMBIA	PAL B	PAL G
ZIMBABWE	PAL B	PAL G

# Guarantee

**This product is guaranteed for 12 months from the date of original purchase. If any defect arises due to faulty materials or workmanship, the unit will either be replaced, a refund given or repaired free of charge (where possible) during this period by the dealer from whom you purchased the unit.**

**The guarantee is subject to the following provisions:**

- The guarantee is only valid within the boundaries of the country of purchase.
- The product must be correctly assembled and operated in accordance with the instructions contained in this booklet.
- The guarantee does not cover accidental damage, misuse, or consumable items.
- The guarantee will be rendered invalid if the product is resold or has been damaged by inexpert repair.
- The manufacturer disclaims any liability for incidental or consequential damages.

**This guarantee is in addition to and does not diminish your statutory, or legal rights.**