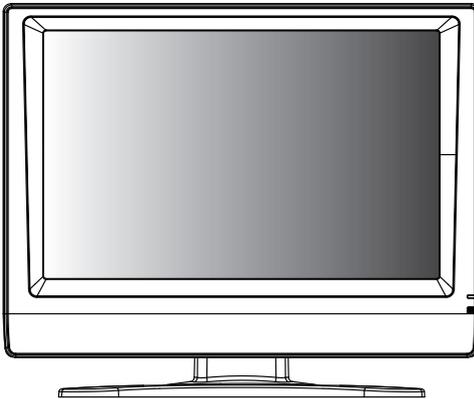


Goodmans

**Model GTVL20W7HD
HD READY**

User Guide



Goodmans Colour Television

BOX CONTENTS:

20" 16:9 TELEVISION
REMOTE CONTROL
WARRANTY CARD
INSTRUCTION BOOKLET
BATTERY x2

Contents:

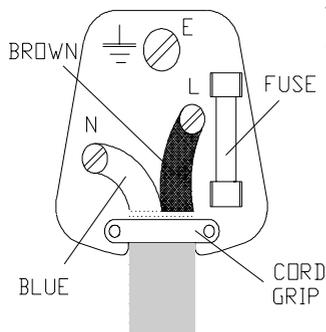
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IMPORTANT INSTRUCTION:

For your own safety read following instruction carefully before attempting to connect this unit to the mains.

MAINS (AC) OPERATION



The wires in this mains lead are coloured in accordance with the following code :

**BLUE-NEUTRAL
BROWN-LIVE**

IMPORTANT

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

No connection is to be made to the earth terminal of the plug.

If a 13 Amp (BS 1363) Plug is used a 5 Amp Fuse must be fitted, or if any other type of Plug is used a 5 Amp Fuse must be fitted, either in the Plug of Adaptor, or on the Distribution Board.

CAUTION

TO PREVENT ELECTRIC SHOCK DISCONNECT FROM THE MAINS BEFORE REMOVING COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SAFETY PRECAUTION

THIS EQUIPMENT MUST BE DISCONNECTED FROM THE MAINS WHEN NOT IN USE. DO NOT ALLOW THIS UNIT TO BE EXPOSED TO RAIN OR MOISTURE.

1. SAFETY AND PRECAUTIONS

Please read through this section carefully and follow the instructions to maximize the reliable operation and lifetime of your LCD display. Always keep these instructions handy and close by your LCD display. Keep the instructions and the packaging so that if you sell or give away your LCD display you can give them to the new owner.

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 purpose. **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 **not** intended for commercial use in a **heavy industry environment**.
- An **injury hazard** exists when the **display breaks**. Wear protective gloves to pack the broken parts and send them into 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.

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

- ◆ if the power cable/power supply overheats or is damaged
- ◆ if liquid has got into the monitor
- ◆ if the LCD display is dropped or the housing damaged

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.

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.

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 the 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 assumed 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**.

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 100-240V~/ 50-60 Hz**.
- Use only the 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.
- 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 that no one can trip over or step on them.
- To avoid damage of cable **do not place any objects or furniture on the cable.**

TRANSPORT AND RECYCLING

- Keep the original packaging and use it to protect the LCD display during transport or storage.

PRECAUTIONS

Caution! 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**.

IMPORTANT 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 near water (e.g., near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool).
- Avoid using a telephone/modem (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone/modem to report a gas leak in the vicinity of the leak.
- 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.

2.INTRODUCTION

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

SERVICE

Your display comes with a one-year warranty, this is in addition to your statutory rights.

This manual contains a separate chapter on Troubleshooting on page 37.

PERFORMANCE CHARACTERISTICS

Advantages in relation to CRT (cathode ray tube) displays:

- Less space required
- Lighter weight
- Lower power consumption

Further features

- The LCD unit is a plug-and-play device which is automatically recognised by your plug-and-play computer operating system. (When connected to a computer)
- The connection terminals include RF IN, D-SUB, DVI, SCART (CVBS, SVHS, RGB), COMPONENT, and VIDEO, S-VIDEO Input.
- Easy-to-use remote control, and OSD (on-screen display) menu.
- WIDE modes include Full, Panoramic, Normal, Zoom 1, Zoom 2. (Modes available are dependant upon the source)
- P. MODE settings include Movie, Bright, Manual and Standard.
- APS (auto program search) for automatic TV channel tuning.
- Teletext function available.
- Child lock function available.
- Built-in dual channel speakers.
- Built-in NICAM/IGR sound decoder for stereo and bilingual listening.
- 10 minute to 120 minute sleep timer control, with 10 minute increments.
- After 10 minutes of not receiving a signal the unit activates Auto Power Off.
- Provided with component video input for high definition content.
- 6 Equalizer modes available.

ACCESSORIES

Please check that you have received the following items with your LCD TV.



User's Manual



Remote Control & Batteries(AAA X2)



Power Cord

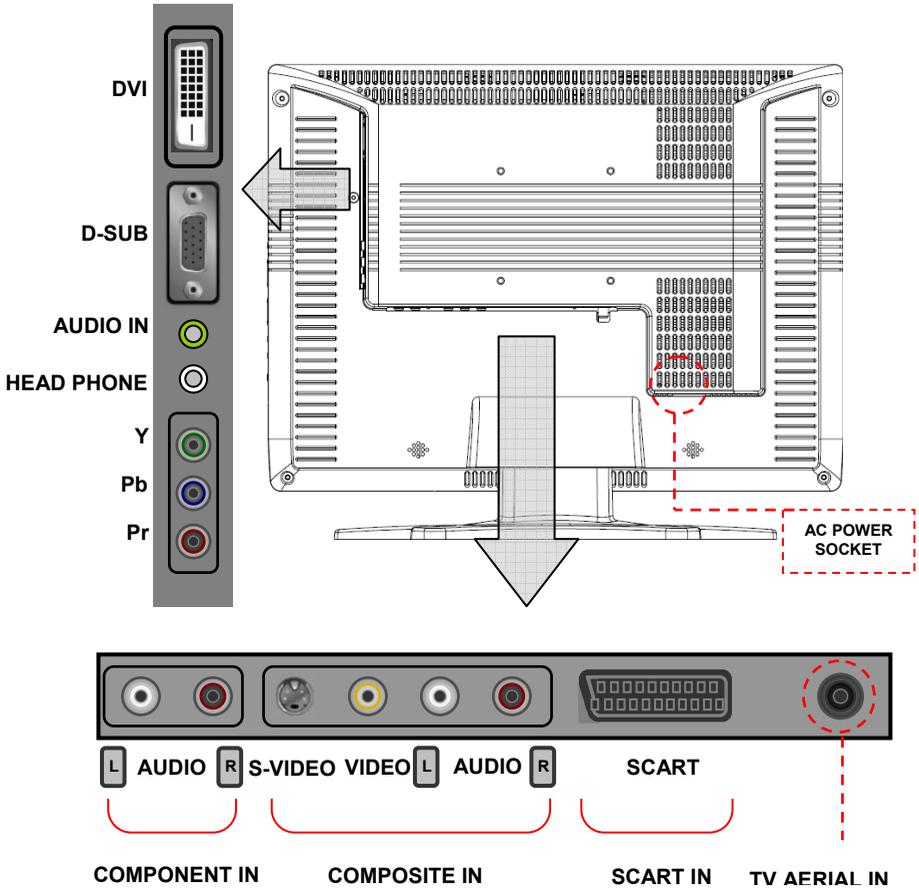


HDMI-DVI Cable



Audio Cable

3.CONNECTING EXTERNAL DEVICES



4.CONTROLS AND LOCATION

Function Key

These buttons control your TV's basic features, including the on-screen menu. To use advanced features, you must use the remote control.

POWER: turn the LCD-TV on or off.

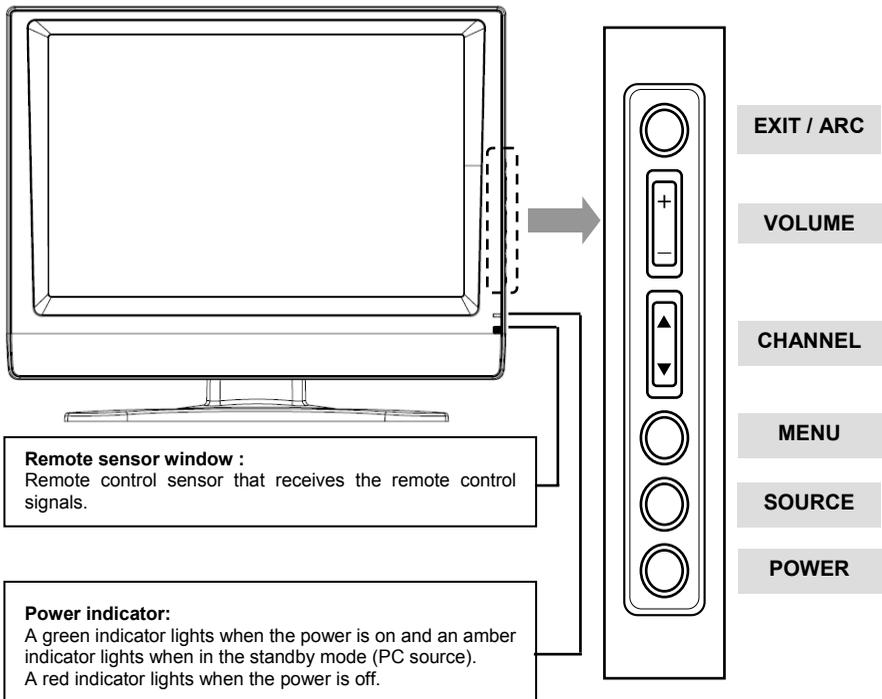
SOURCE: select the input source (PC, DVI, AV, SV, YPBPR TV, SCART, SCART S).

MENU: display the main menu.

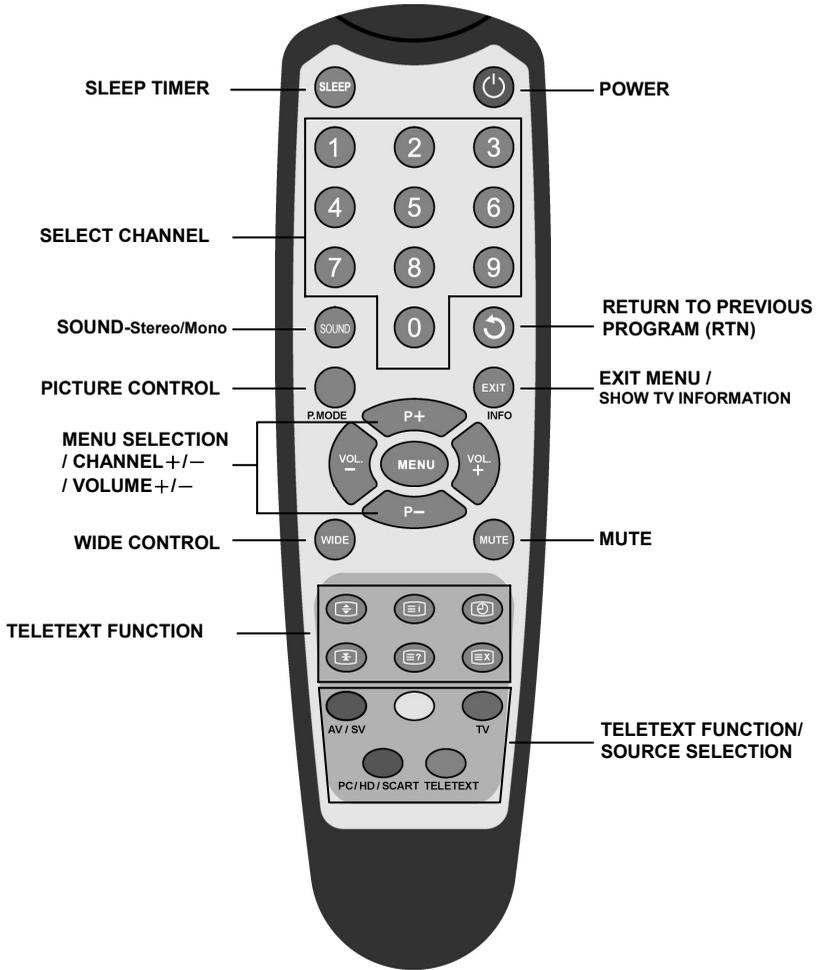
CHANNEL (down or up): change the channel.

VOLUME (+/-): increase or decrease the volume.

EXIT / ARC: Set up the aspect ratio of display (TV/Video source: Panorama, Normal, Full, Zoom1, Zoom2, Auto ; PC/DVI source: Full, Normal) or as exit function if OSD menu appear.



5.REMOTE CONTROL



6.SUMMARY OF REMOTE CONTROL BUTTONS

Power control

POWER button Turn the TV on or off

Selecting the primary signal source

TV button Switch to TV mode
 PC / HD / SCART button Switch to PC / DVI / SCART/ SCART S and YPBPR mode
 AV / SV button Switch to AV and S-VIDEO mode

Menu Settings

MENU button Display the on-screen menu
 EXIT Exit a menu or sub-menu
 P+ / P- / VOL.+ / VOL.- Access menu items

TV Changing Channels

P+ / P- button Press Up/DOWN to change the channel
 0-9 button To manually select channels
 RTN button Return to the previous viewed channel

Sound Control

VOL.+ / VOL.- button Increase/ Decrease volume level
 MUTE button Temporarily turn off audio
 SOUND button Press to choose Stereo, Dual and Mono broadcasts.

Other Function

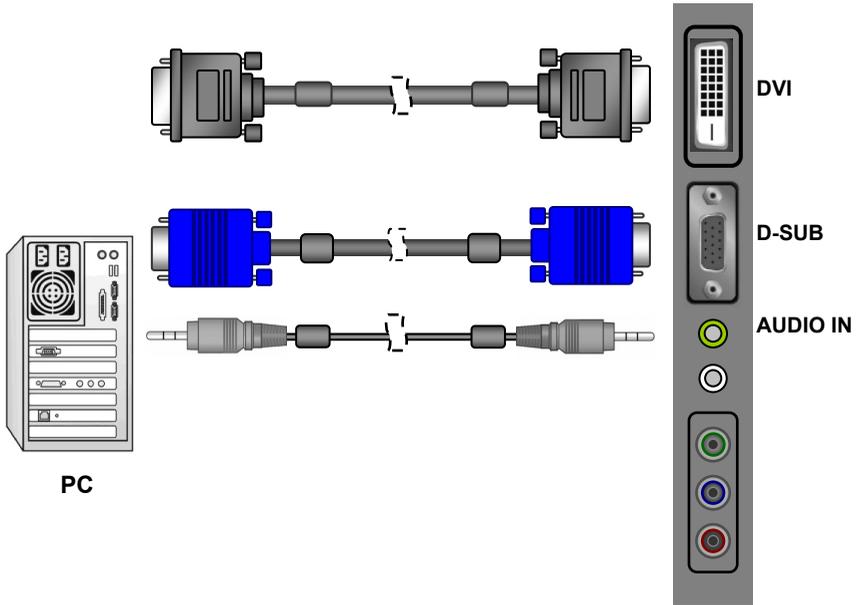
INFO button Display current channel/Input source/signal format..
 WIDE button In PC mode : Set the picture mode to Full, Fill aspect, One to one.
 In Video mode : Toggle the picture mode between Normal → Panoramic→Full→Zoom1→Zoom2→Auto
 P.MODE button Toggle screen luminosity between Standard, Movie, Bright, Manual
 SLEEP button Select a pre-set time for automatic power down.

Teletext Control

	TELETEXT button	Press to show the Teletext Service. Press again to return to TV Viewing
	INDEX	Press "INDEX" button to show the list of teletext contents.
	HOLD	Press "HOLD" button to stop the automatic page change
	INTERRUPT	Press "INTERRUPT" button to switch to TV while waiting for the next text page.
	REVEAL	Press "REVEAL" button to display concealed information, such as solutions of riddles or a quiz.
	EXPAND	Press "EXPAND" button to enlarge the top half or bottom half of the Teletext page.
	SUB-PAGE/TIME	Press "SUB-PAGE/TIME" button to access to the sub-page you required

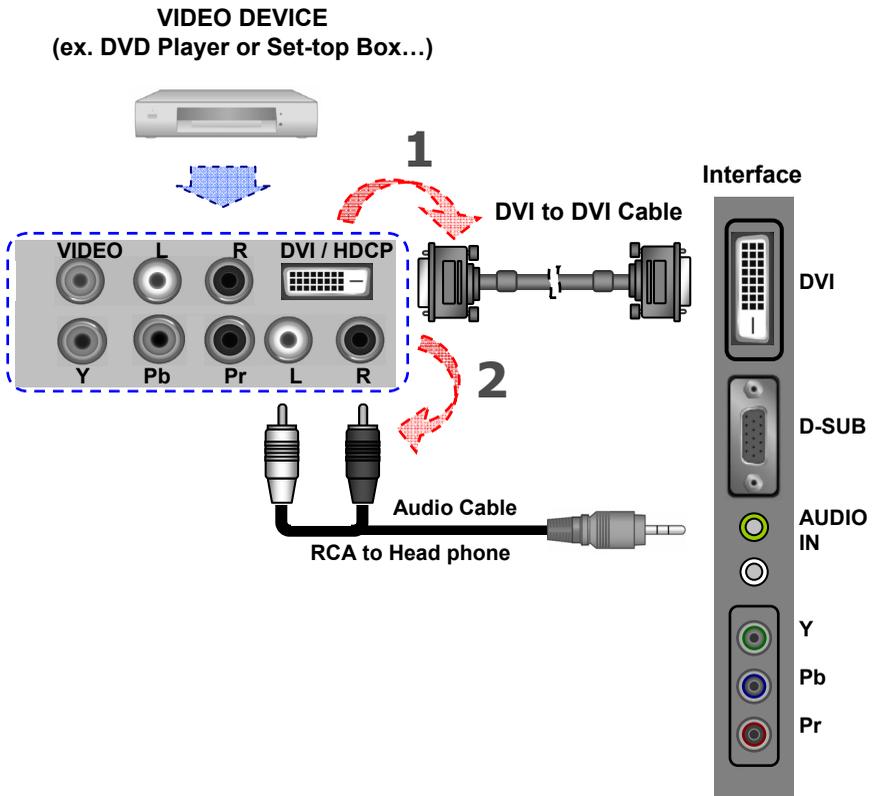
7.CONNECTIONS & APPLICATIONS

* How do I connect a PC via DVI & D-SUB ?



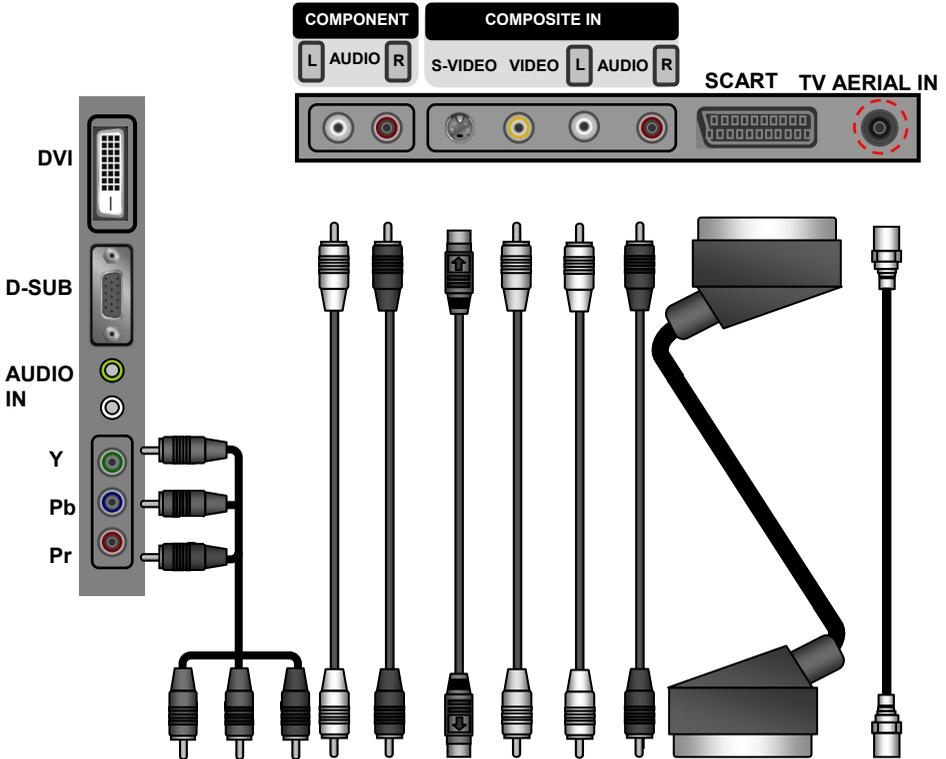
* How do I connect a Video device via DVI – DVI ?

This can be done only if there is the DVI Output connector on the external device.



1. Connect a DVI-to-DVI cable or DVI-DVI adapter between the DVI connector on the TV and the DVI connector on the DVD player/ Set-top box.
2. Connect an audio cable between the PC AUDIO IN jack on the TV and AUDIO OUT jack on the DVD player/ Set-top box.

* How do I connect a Video device via general cables ?



This TV accept different Video Input, if video device has a connector with better quality, please connect the better one. The sequence of video quality is Component, Scart, S-video, Video from the best quality to the normal one.

8. GENERAL CONTROLS & ADJUSTMENT

TURNING THE LCD DISPLAY ON AND OFF

1. Press the **POWER** button on the Remote Control.
2. The power status light found in the lower right corner of the TV indicates the following:

Power On	---	Green light ◦
Power off	---	Red light ◦
Power Saving (PC mode)	---	Amber light ◦

VOLUME CONTROL

Using Volume Control

Press **VOL + / VOL -** button to turn up or turn down the sound volume.

Using Mute

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

1. Press the **MUTE** button and the sound cuts off.
2. Press the **MUTE** again or **VOL + / VOL -** button 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 time can be set from OFF to 120 minutes.

1. Press the **SLEEP** button to set the Sleep Timer screen.
2. Press the **SLEEP** button repeatedly to change the sleep time (in 10 minutes intervals).

SWITCHING PC / DVI / VIDEO / TV / SCART MODES

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

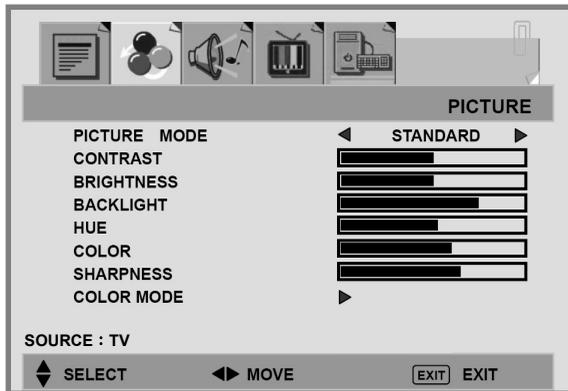
TV button switch to TV mode.

PC/HD/SCART button switch to PC, DVI ,YPBPR,SCART,SCART S mode

AV/SV button switch to AV / SV mode

VIEWING THE MENUS AND ON-SCREEN DISPLAYS

1. With the power on, press the **MENU** button. The main menu appears on the screen.



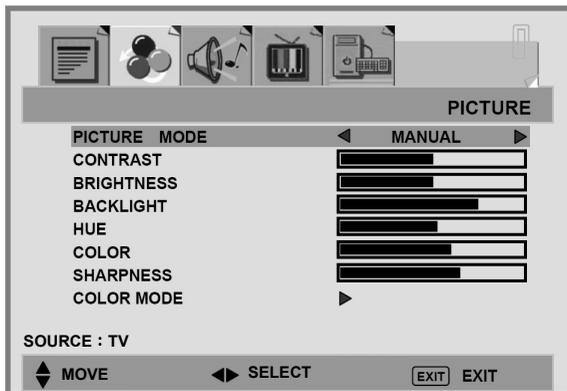
2. Use the **VOL, + / VOL, -** button to select one of the menu options, and then press the **P+ / P-** button to access the sub-menu.
3. Press the **VOL, + / VOL, -** button to make adjustments.
4. Press **EXIT/INFO** button to exit from the menu.

Note: The menu varies according to which input source is selected.

PICTURE SETTING

You may need to perform separate adjustments for brightness and contrast for the different video modes. Typically, PC mode will be best viewed with lower brightness and contrast settings than are appropriate for the other modes.

1. Press the **MENU** button to display PICTURE from the main menu.
2. Press the **P+ / P-** button to select the desired item.
3. Press the **VOL. + / VOL. -** button to adjust ranges from minimum to maximum.
4. Press the **EXIT/INFO** button to return to the previous screen.



PICTURE MODES:

- **[MANUAL]**: select this mode if you want to manually adjust each setting. Adjustments are only available under this mode.
- **[STANDARD]**: standardizes picture adjustment
- **[MOVIE]**: heightens contrast and sharpness
- **[BRIGHT]**: displays a clear and bright picture.

PICTURE SETTINGS:

CONTRAST: Increase and decrease picture contrast

BRIGHTNESS: Darker and brighter picture brightness

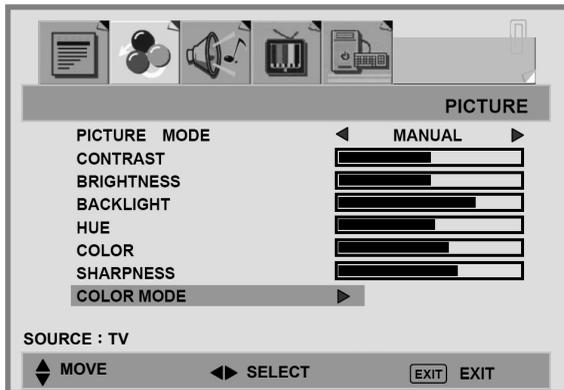
BACKLIGHT: Adjust the back light level of screen

COLOR: Deeper and lighter picture color

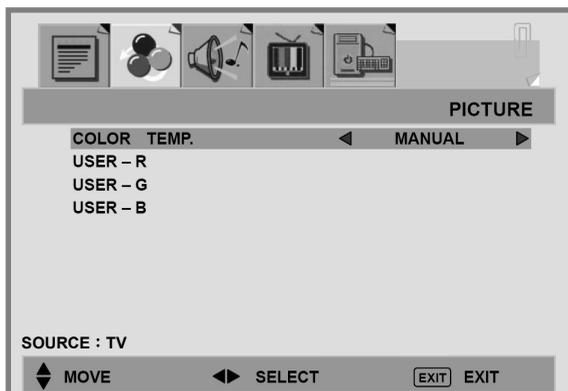
SHARPNESS: Softer and sharper image

COLOR MODE :

1. Press the **P+ / P-** buttons to select COLOR MODE option, and then press the **VOL. +** button to enter the COLOR TEMP. sub-menu.



2. Press the **VOL. +** button to choose the color of picture mode. [NORMAL], [WARM], [COOL], [MANUAL].



3. Press **P+** / **P-** buttons to move USER-R/G/B and then press the **VOL. +** button to enter the desired setting.

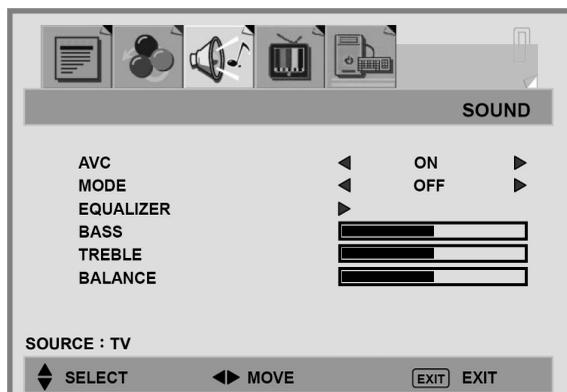
USER-R: adjust color of red rate.

USER-G: adjust color of green rate.

USER-B: adjust color of blue rate.

SOUND ADJUSTMENT

1. Press the **MENU** button to display SOUND from the main menu.
2. Press the **P+** / **P-** button to move to one of the sub-menu options.
3. Press the **VOL. +** / **VOL. -** button to select the settings.
4. Press the **EXIT/INFO** button to return to the previous screen.



AVC: You can set AVC(Auto Volume Control)options to ON or OFF.

[ON]: For general use, like commercial advertisement,AVC can avoid the sound turns up or down suddenly.

[OFF]: For special sound effect, like opera or symphony, volume can be performed in accordance with the original sound level.

MODE: select the audio mode to [OFF],[EQ].

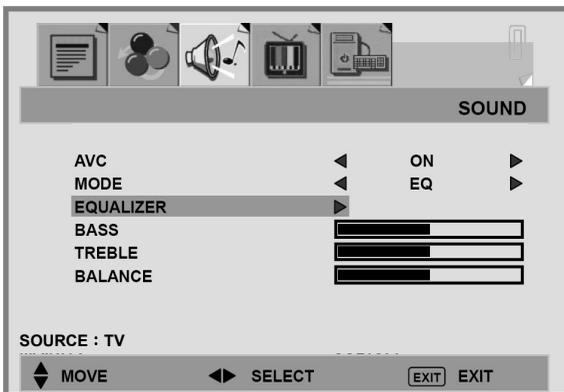
BASS: Adjust low tone of sound.

TREBLE: Adjust high tone of sound.

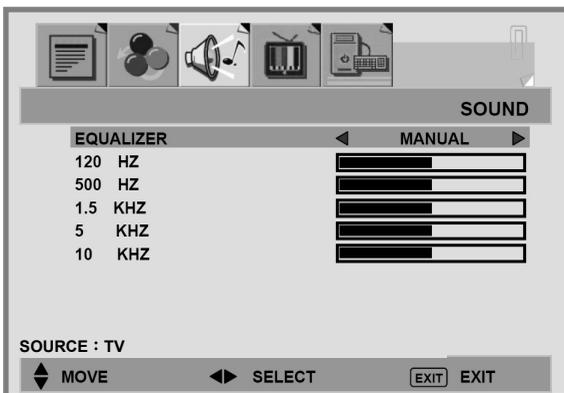
BALANCE: Adjust the volume balance between the left and right speakers.

EQUALIZER:

1. Press the **VOL, +** button to enter the EQUALIZER menu.

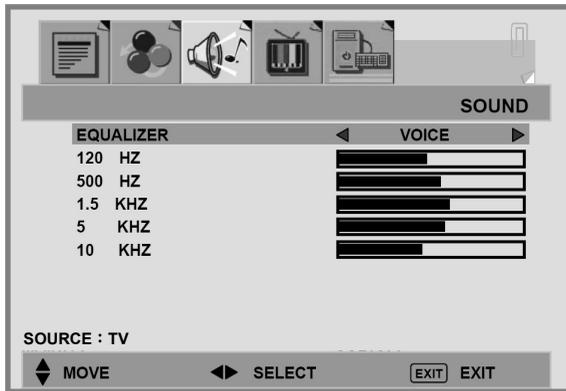


2. Press the **VOL, +** button to select the EQUALIZER options.

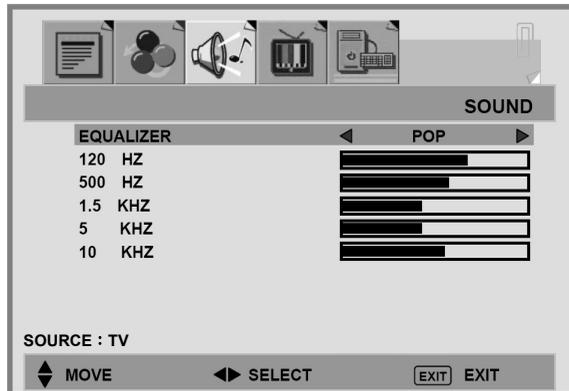


- There are 6 Equalizer modes available: [MANUAL] , [VOICE] , [POP], [ROCK] , [JAZZ] , [CLASSIC].
- Settings for VOICE , POP, ROCK , JAZZ and CLASSICAL are pre-configured. You cannot change these settings. The frequency responses are as below:

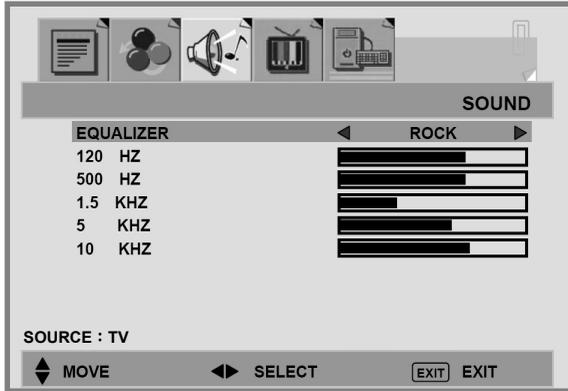
VOICE:



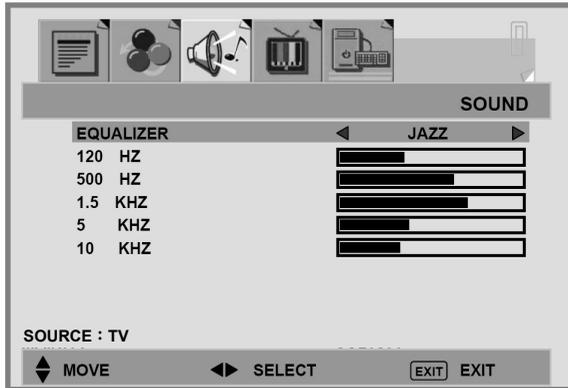
POP:



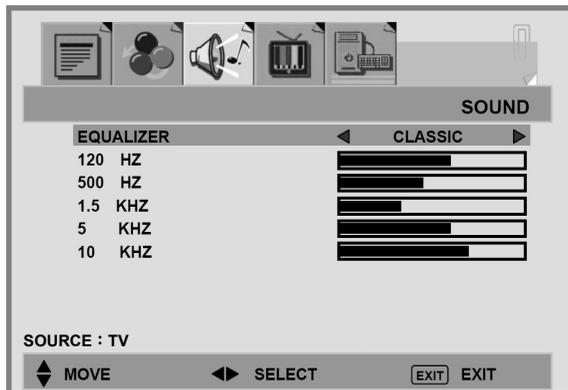
ROCK:



JAZZ:

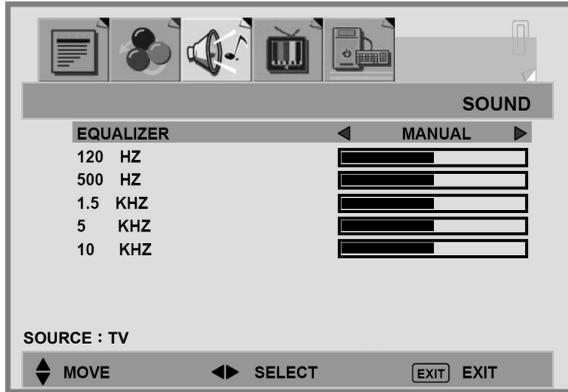


CLASSICAL:



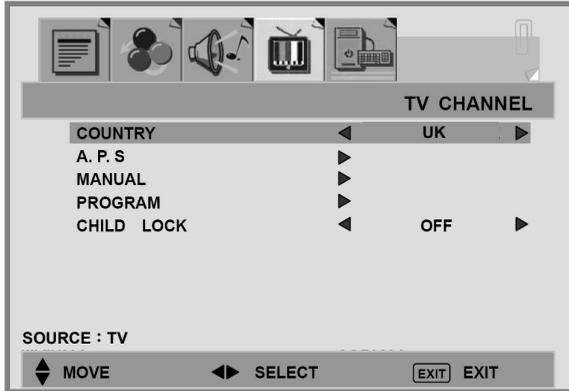
5. In MANUAL mode, use **P + / P -** buttons to move a band and **VOL. + / VOL. -** buttons to select the desired frequency settings.

MANUAL:



TV CHANNEL

1. Press the **MENU** button to display TV CHANNEL from the main menu.
2. Press the **P+ / P-** button to move one of the sub-menu options.
3. Press the **VOL. + / VOL. -** button to select the settings.
4. Press the **EXIT/INFO** button to return to the previous screen.

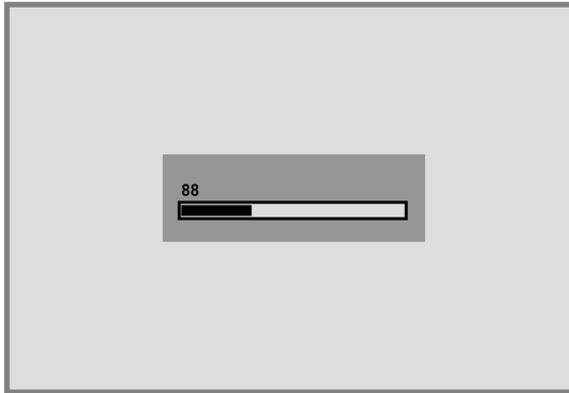


COUNTRY:[UK],[EIRE],[DENMARK],[FINLAND],[ITALY],[NORWAY],
[SPAIN],[SWEDEN],[LUXEMBURG],[FRANCE],[CZECH],
[POLAND],[HUNGARY],[AUSTRIA],[GERMANY]
,[SWITZERLAND],[BELGIUM], [NETHERLANDS]

A.P.S:

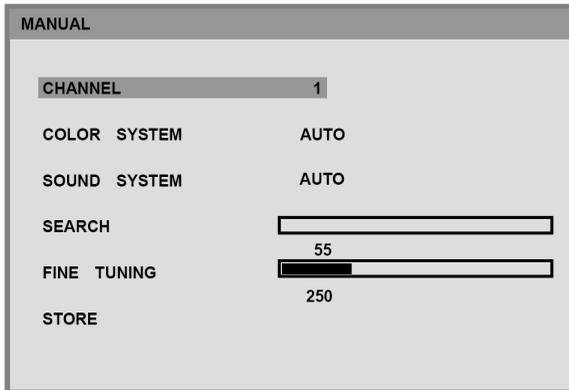
1. Press the **P+ / P-** button to select A.P.S option and then press the **VOL. +** button to enter A.P.S (Automatic Programming Search).
2. After APS has completed, the TV Channel menu will appear on the screen.
3. You can select, rename, delete or insert programs within a program list.(refer to page 28)

Programming Manual



MANUAL:

1. Press **P+** / **P-** button to select MANUAL option, and then press number or **VOL. +** / **VOL. -** button to select the program that the user wants the tuned channels to store .
2. Press **P+** / **P-** button to select the items, and then press **VOL. +** / **VOL. -** button to select the setting.



CHANNEL: choose channels by pressing **VOL. +** / **VOL. -**.

COLOR SYSTEM: choose [AUTO], [PAL], [SECAM] by pressing **VOL. +** / **VOL. -**.

SOUND SYSTEM: choose [AUTO], [B/G], [D/K], [L], [I], [L'] by pressing **VOL. + / VOL. -**.

SEARCH: press **VOL. +** to search receivable channels by pressing **VOL. + / VOL. -**.

FINE TUNING: indicate searching programs by pressing **VOL. + / VOL. -**.

STORE: store the found channel by pressing **VOL. + / VOL. -**.

3. After searching, press **P+ / P-** button to select Store, and then press **MENU** button to store the searched channel.
4. Press **EXIT/INFO** button to exit from the menu.

PROGRAM:

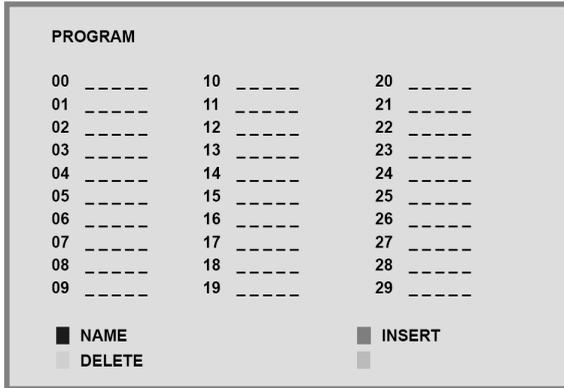
Program List is used to display the Program numbers and names. You can use this list to edit the name, delete, or insert programs.

1. Select channel by pressing the **P+ / P-** or **VOL. + / VOL. -** buttons. Selecting the program list will display the stored program on the screen.
2. A highlighted gray bar appears on the chosen program. Press the **red** button (NAME).
3. Press the **P+ / P-** buttons to edit name of channel and **VOL. + / VOL. -** to move to next letter.
4. Press the **red** button (STORE) when you have completed editing. This will store the program name..

Note: When the channel number changes, the TV channel shown on screen stores the program.

5. Choose a program and press the **green** button (INSERT), the program is highlighted by red bar.

6. Press **P+ / P-** to select a program you would like to switch with the highlighted program.
7. Press the **green** button to store.
8. Choose a program, then press the **yellow** button (DELETE).
The program is highlighted by a red bar, and then press **yellow** button again to erase. To cancel, press **blue** button.

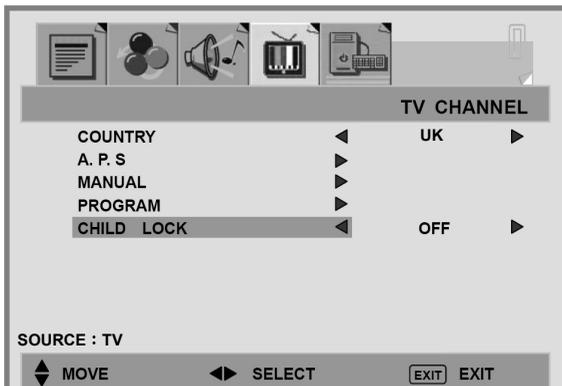


CHILD LOCK:

1. Press the **MENU** button to display TV CHANNEL from the main menu.
2. Press the **P+ / P-** buttons to select CHILD LOCK option.
3. Press the **VOL. + / VOL. -** buttons to enable / disable the function key of front cover.

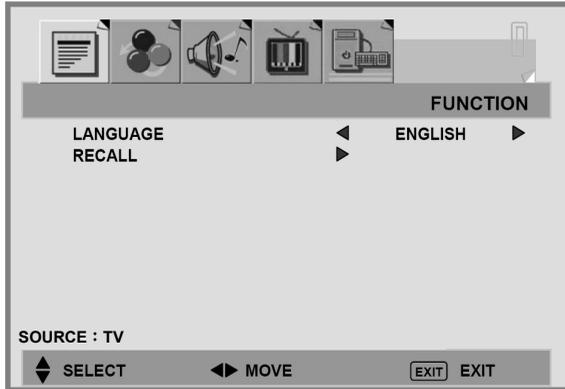
[ON]: Function key is locked.

[OFF]: Function key is active.



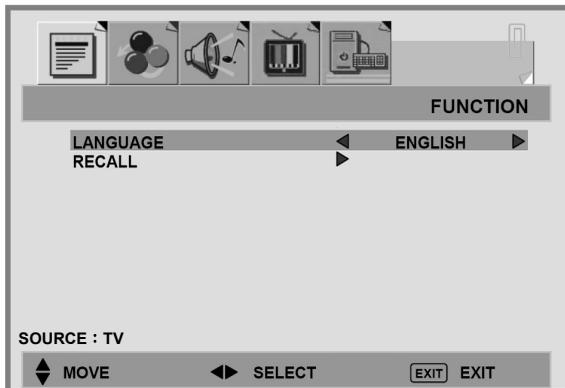
FUNCTION

1. Press the **MENU** button to display FUNCTION from the main menu.
2. Press the **P+ / P-** button to move to one of the sub-menu options.
3. Press the **VOL. +/VOL. -** button to select the settings.
4. Press the **EXIT/INFO** button to return to the previous screen.



LANGUAGE:

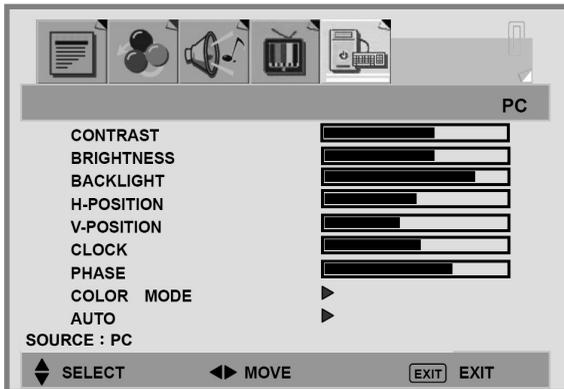
1. Press the **P-** button to select LANGUAGE option.
2. Choose a language. [ENGLISH], [DEUTSCH], [NEDERLANDS], [ITALIANO], [CASTELLANO], [FRANCAIS], [DANSK], [NORSK], [SVENSKA], [SUOMI]



RECALL: Reset to factory settings.

PC MENU

1. Press the **MENU** button to display PC from the main menu.
2. Press the **P+ / P-** button to move to one of the sub-menu options.
3. Press the **VOL. + / VOL. -** button to select the settings.
4. Press the **EXIT/INFO** button to return to the previous screen.



CONTRAST: Increase and decrease picture contrast

BRIGHTNESS: Darker and brighter picture brightness

BACKLIGHT: Adjust the back light level of screen

H POSITION: Adjust picture horizontal position.
Note: Not available in DVI source.

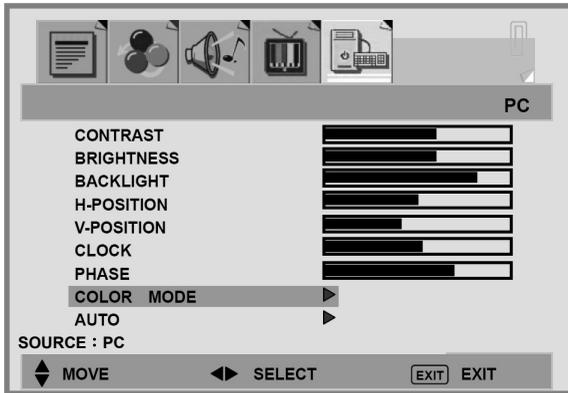
V POSITION: Adjust picture vertical position.
Note: Not available in DVI source.

CLOCK: Adjust picture width.
Note: Not available in DVI source.

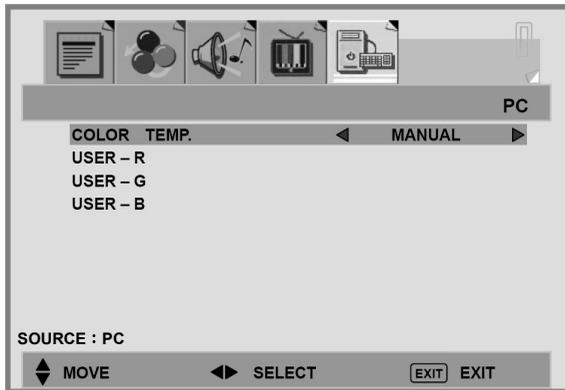
PHASE: Adjust picture focus quality.
Note: Not available in DVI source.

COLOR MODE :

1. Press the **P+ / P-** buttons to select COLOR MODE option, and then press the **VOL. +** button to enter the COLOR TEMP. sub-menu.



2. Press the **VOL. +** button to choose the color of picture mode. [NORMAL], [WARM], [COOL], [MANUAL].

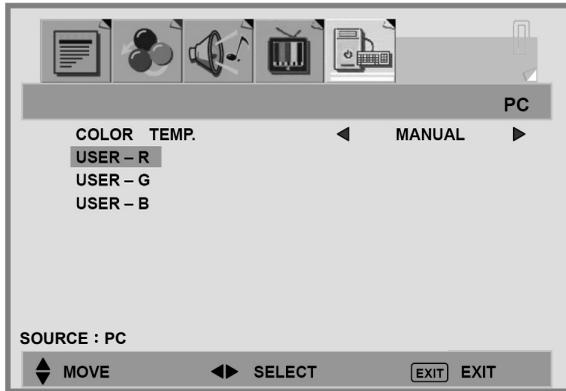


2. Press **P+ / P-** buttons to move USER-R/G/B and then press the **VOL. +** button to enter the desired setting.

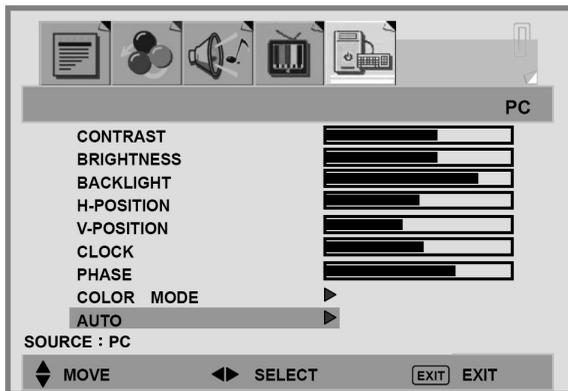
USER-R: adjust color of red rate.

USER-G: adjust color of green rate.

USER-B: adjust color of blue rate.



AUTO: Automatically adjust picture. Press the **VOL, +** button to adjust picture position automatically. Screen will disappear until it has completed adjustment.



NICAM/IGR BROADCAST SELECTION

Depending on the particular program being broadcast, you can press the **SOUND** button to listen to different language sources.

Under different systems, broadcast function will show differently.

I : sends the primary broadcast language to the loudspeakers.

II : sends the secondary broadcast language to the loudspeakers.

○ : sends mono sound

⓪ : sends stereo sound

NICAM System

Digital	Stereo	○
		⓪
	Dual	○
		I
		II
	Mono	○
		I

Two Carrier System

Analog	Stereo	○
		⓪
	Dual	○
		I
		II
	Mono	○

9. TELETEXT

Teletext is a free service broadcast by some TV stations which gives up-to-the-minute information, news, weather, television programs, share prices, subtitles, and many other topics.

Note : No OSD adjustment apart from volume control will be available in teletext mode .

In teletext mode, **NUMBER** buttons, **VOL. + / VOL. -** and **RTN** buttons are used for Teletext function.

To operate TELETEXT

- * Select a TV station on which Teletext is being transmitted.
- * Press the  **TELETEXT** button once to make the Teletext screen appear
 - 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.
- * Press the  **TELETEXT** button again to switch off Teletext. The previous program will reappear.

Teletext Page Selection

1. Enter the required Teletext page as a three digit number.
 - 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.
2. The **P+ / P-** button can be used to select the preceding or following page.
3. Fastext movement by the **4 coloured buttons**.
 - Four subject-heading pages can be selected quickly by pressing the corresponding coloured button **Red, Green, Yellow, or Blue** on the remote control handset.

Useful features for Teletext

INDEX

* Press this button to select the index page that displays the list of Teletext contents.

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.

* Press **HOLD** button to stop the automatic page change.

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

* Press **HOLD** button again to continue.

UPDATE

In the Teletext mode, pressing **UPDATE** button will switch the screen to the TV mode while waiting for the next text page.

* Select required page number in Teletext mode.

* Press **UPDATE** button to switch to TV mode while waiting for the text page. A small blue box in which “---“ shows appears in the upper left corner .

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

* Press **UPDATE** button again to revert to Teletext mode.

REVEAL

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

* Press this button again to conceal the revealed answers.

EXPAND

Select 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 once more to return to the normal display.

TIME

* While watching a TV program with Teletext transmission press **TIME** button. The current time information will be displayed on the upper right corner of the screen.

* The time information will disappear after pressing **TIME** button again.

10. OTHER FUNCTIONS

1. - **WIDE** - Modes available are dependant upon the current source being played TV /DVD etc.
 - * **FULL**: This mode expands the width of 4:3 video sources evenly to fill the 16:9 screen. There will be distortion at the centre of the screen as well as the edges.
 - * **NORMAL**: This sets the aspect ratio to 4:3 for traditional TV programs. There will be black bars at either side of the screen.
 - * **PANORAMIC**: Expands 4:3 video sources 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 1**: Some DVD movies may not fill the top and bottom of the screen. The 14:9 zoom function extends the height to fill the screen.
 - * **ZOOM 2** : Same as "16:9 ZOOM", but the bottom edge of the screen pulls up a little for the subtitle purpose.
(In PC mode , only has **FULL** and **NORMAL**)
 - * **AUTO** :This changes any ARC automatically regarding to video sources.
(In PC mode , only has **FULL** and **NORMAL**)

2. - **P. MODE** -

Press **P. MODE** button on the remote control repeatedly to cycle through the APC settings. This is to adjust the brightness and contrast of screen.

 - * **Movie**: the contrast is around 0.51 times of standard mode.
 - * **Manual**: default brightness is around 0.91 times that of standard mode, and adjustment is available.
 - * **Standard**: the standard settings for the best picture.
 - * **Bright**: the contrast is around 1.37 times that of standard mode.

11. TROUBLESHOOTING

Many times, problems have simple causes. We would like to give you some tips to solve some common problems. Should these tips not help, please contact your dealer.

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.

- 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.

Picture is not clear.

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

Picture is too bright.

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

The picture is too dark.

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

Remote control does not work.

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

The picture is not sharp.

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

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 light, etc.

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.

12.PC INPUT PRESET TIMING TABLE

Analog Input							
No.	Mode Name	H-Resolution V-Resolution	H.Freq. (KHz)	V.Freq. (Hz)	H. Polarity	V. Polarity	Pixel CLK (MHz)
1	VGA	640 * 480	31.469	59.940	-	-	25.175
2	VGA	640 * 480	37.500	75.000	-	-	31.500
3	SVGA	800 * 600	37.879	60.300	+	+	40.000
4	SVGA	800 * 600	46.875	75.000	+	+	49.500
5	XGA	1024 * 768	48.363	60.000	-	-	65.000
6	XGA	1024 * 768	56.476	70.000	-	-	75.000
7	XGA	1024 * 768	60.023	75.000	-	-	75.000
8	WSGA	1280 * 768	47.708	60.000	+	-	80.150
9	WXGA	1360 * 768	47.7	60.0	+	+	80
10	WXGA	1280 * 1024	63098	60	+	+	108
11	WXGA	1280 * 1024	79.976	75	+	+	135

*The resolution and frequencies displayed on the screen may not exactly match this list.

13.SPECIFICATIONS

ITEMS		SPECIFICATIONS
Panel	Screen Size	20.1" TFT-LCD Panel
	Aspect Ratio	16:10
	Resolution	1680 x 1050
	Display Area (Opening)	433.44 mm x270.9 mm
	Pixel Pitch	0.258 mm x 0.258 mm
	Display colors	16,777,216 colors
	Contrast Ratio	600 : 1 (typ.)
	Brightness (center)	300 cd / m ² (typ.)
	Viewing Angle(CR>10)	140° (Hor.) / 125° (Ver.)
	Response Time (GTG)	8 ms (typ.)
TV Function	Broadcasting System	PAL / SECAM
	Receiving Channel	B / G, D / K, I and L / L' (Multi-Europe)
	Sound System	NICAM / A2 (IGR)
	Data Broadcasting	Teletext 255 pages (FLOF /TOP) Auto Program Searching (APS)
Video Input	Video Color System	PAL / SECAM / NTSC
	AV1 (scart)	SCART 21-pin (RGB / CVBS / SVHS) x 1
	AV2 (composite)	Composite (RCA jack) x 1 S-Video x 1
	AV3 (component)	Y Pb Pr (720P / 1080i , HDTV ready) x 1
PC Input	DVI Connection	DVI x 1 (DVI 1.0 / HDCP 1.0)
	VGA Connection	D-Sub 15 pin x 1
	Scanning Frequency	f _H = 31.5 ~ 60KHz / f _V = 56 ~ 75Hz

ITEMS		SPECIFICATIONS
Audio Input	Audio 1	Scart x 1
	Audio 2	Composite & S-Video x 1
	Audio 3	Component x 1
	Audio 4	PC x 1
Video OUTPUT	SCART 1	TV x 1
Audio Output	Speaker (build-in)	2.5W + 2.5W @ THD < 10 %
	Headphone	Headphone Mini-jack (3.5φ)
Feature	OSD Language	English, French, German, Spanish, Italian, Finnish, Swedish, Dutch, Danish, Norwegian
	Function Keys	Power, Source, Menu, Up/Down(Channel), +/- (Volume), ARC / EXIT
	Video Performance	Comb-filter , De-interlace , Canal Plus ,Teletext , WIDE , P.MDOE.
	Audio Performance	Equalizer, Auto Volume Control (AVC)
	Other Control	Sleep Timer, Auto Power Off
Power	Power Supply	AC 100V ~ 240V , 50 / 60Hz
	Power Consumption	< 70 W
Dimension	W x H x D	523.5 x 433 x 240 (mm)
Weight (net)	Without Accessories	8.0 kg

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