Contents

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 LCD display. 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 center 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 LCD display.

- Do not touch the display with your fingers or with sharp objects to avoid damage.

1

Contact the Call Center 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 gotten into the LCD display

♦ if the LCD display is dropped or the housing damaged

REPAIR

• Leave all repairs of your LCD display to **authorized 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**.

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.** 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.

- 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**.

- You can adjust your LCD display a **maximum of about 5° downward** and a **maximal 20° upward**. If you attempt to force the display further, you may **damage** your display.

STANDARDS/ELECTRO-MAGNETIC COMPATIBILITY

Your display fulfils the requirements for electro-magnetic compatibility and electrical safety specified in the following standards:

EN 55022, EN 55024, EN 60950, EN 61000-3-2, EN 61000-3-3

- When connecting ensure that *Guidelines for Electro-Magnetic Compatibility* (**EMC)** are observed.

- Provide a space of at least three feet from **high-frequency and magnetic sources of interference** (television sets, loudspeakers, mobile telephones, etc.) in order to avoid malfunctions.

ERGONOMICS

- This display complies with all relevant regulations such as DIN EN ISO 9241-3, DIN EN ISO 9241-7 and DIN EN ISO 9241-8.

- For ergonomic reasons we suggest not to use dark text with a blue background. This would cause bad readability and would increase eye strain.

- While working with display you should **take breaks periodically** to avoid tension and fatigue.

- In order to protect your eyes and to create a pleasant working area you should **avoid glare, reflections** and **strong contrasts** on the screen.

ELECTRICAL SAFETY

EN 60950	Safety of information technology equipment.

- The connection of devices is limited to equipment that complies with EN60950 "Safety of information technology equipment" or EN60065 "Audio, video and similar electronic apparatus. Safety requirements"

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 LCD 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 LCD Multi-Media display. We thank you for your confidence in our products and are pleased to greet you as a new customer.

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

SERVICE

Your display comes with a one-year limited warranty and toll-free customer support. Please see the limited warranty card included with your display for details.

This manual contains a separate chapter on the subject of Troubleshooting on page 41.

PERFORMANCE CHARACTERISTICS

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

➢ Less space required
➢ Lower weight
➢ Power savings

High image quality
➢ WXGA standard: resolution up to 1280 x 768

Further features

➢ The LCD display is a plug and play device which is automatically recognized by your operating system.

➢ The power management fulfills the VESA DPMS standard. During idle times (OFF mode) the power consumption is automatically reduced by up to 95%.

➢ The terminals include Tuner receiving terminal, PC Input, SCART (Video & RGB), Video, S-Video and Component (YCbCr / YPbPr) Input.

➢ Rotate and tilt features for optimizing the viewing position.

- ➢ Easy-to-use remote control.
- ➢ Easy-to-use on-screen menu system
- ➢ PIP, picture in picture, double screen: PC display(Main) and Video display (Sub) on the same screen.
- ➢ Normal, Panscan, Zoom and Full screen format available by pressing ARC button.
- ➢ Headphone socket for private listening.
- ➢ Built-in,dual channel speakers.
- ➢ A built-in NICAM/IGR sound decoder for stereo and bilingual listening.
- ➢ Automatic programming system (A.P.S.) .
- ➢ A sleep timer.
- ➢ Child lock function.
- ➢ Full function Teletext.

INCLUDED EQUIPMENT

Please make sure the following items are included with your LCD Display. Notify us within 14 days after purchase if it is not complete. With your LCD Display you receive:
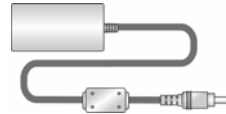

User's Manual

Remote Control & Batteries(AAA X2)
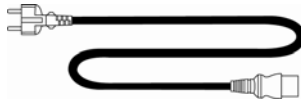
Power Cord

AC Adapter

15 Pin D-sub Signal Cable

Cable Clamp (One big, two small)

3.CONNECTING EXTERNAL DEVICES

SCART
VIDEO IN
S-VIDEO
Y
COMPONENT { Pb/Cb
Pr/Cr
AUDIO IN L
AUDIO IN R
12V DC IN

VIDEO device

DVD

AC adapter AC cord

VIDEO OUT (TV only)
AUDIO OUT L
AUDIO OUT R
D-SUB (PC Input)
PC AUDIO IN
HEAD PHONE
75 ohm AERIAL
INPUT SOCKET

VIDEO Output device

PC

Head Phone
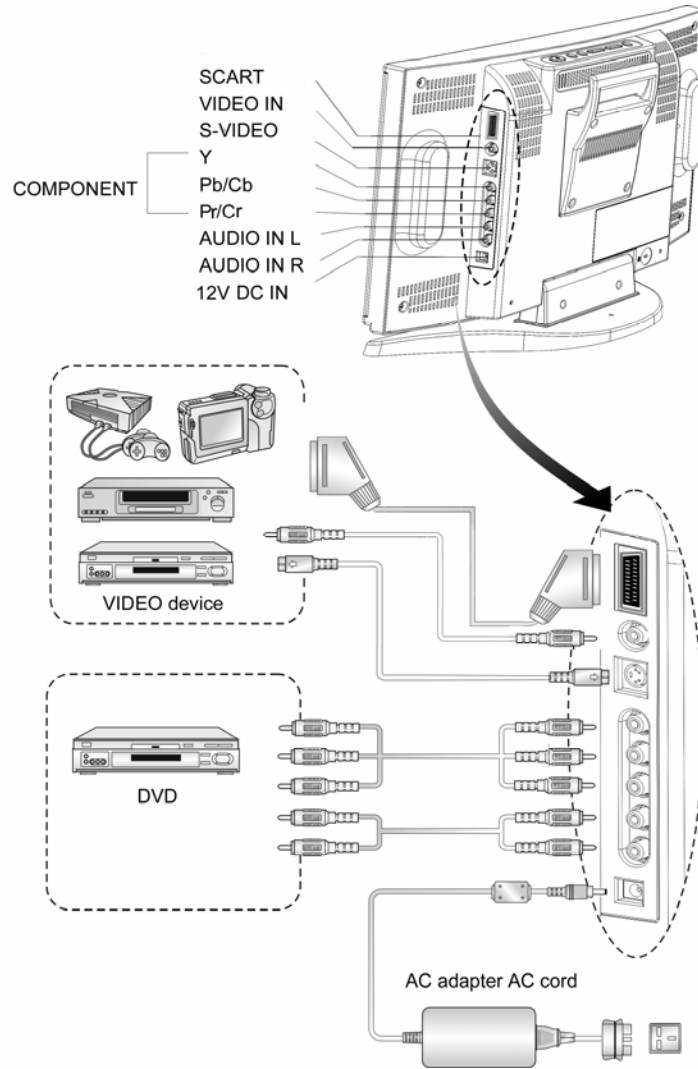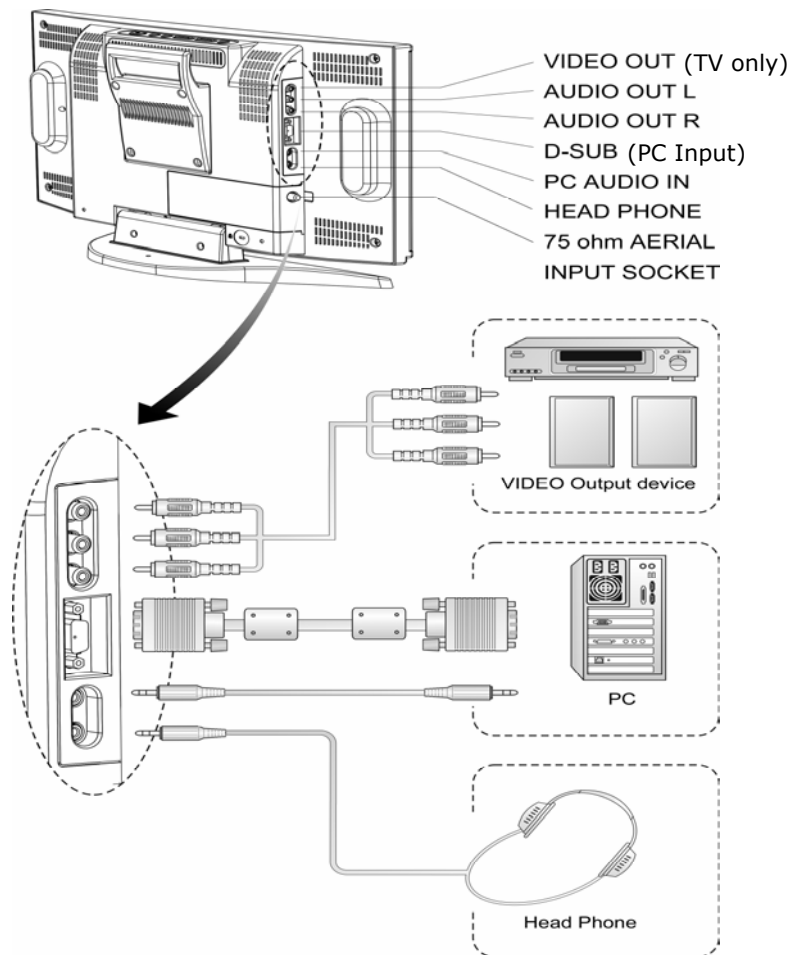
Note:

Audio out L/R : The level of audio output cannot be changed using the volume, treble, and bass controls on your display. This connector should be used with an external audio amplifier that can be used to control the volume.

VCR Recording: The main display must set to TV mode in order to use the audio and video output to record a programme using a VCR.

PIP sound   : When using the PIP feature in PC mode, to hear the Sub display sound you must set the sound to "Sub".

4.CONTROLS AND LOCATION

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

POWER   : turn on or turn off the LCD display.
SOURCE   : select input source (PC, TV, SCART Video /
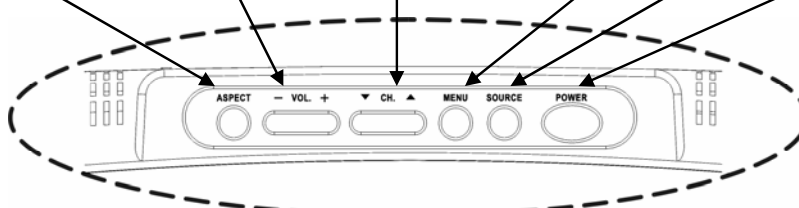   SCART RGB, Video, S-Video, Component).
MENU   : display the main menu.
CHANNEL (down/up)   : change channels.
VOLUME   (-/+)   : turn up or turn down the volume.
ASPECT RATIO   : set up the display (Normal, Panscan, Zoom or Full.)

ASPECT RATIO   VOLUME(-/+)   CHANNEL(down/up) MENU   SOURCE   POWER

Speaker   **Speaker**
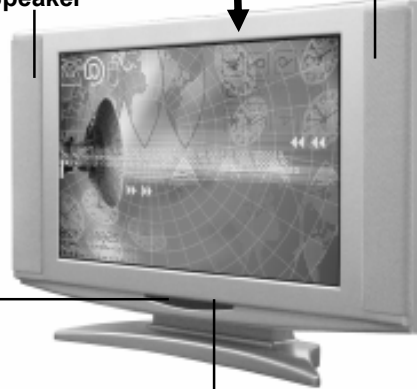
Remote sensor window   **Power indicator**
Aim the remote control   A green indicator lights when the power is
towards this region on the   on and a red indicator lights when in the
LCD display.   standby mode (the indicator will not light
                                     when the main power is off).

5.REMOTE CONTROL

The remote control pad works almost same as ordinary TV remote control that includes the basic function needed while viewing a live video.

DISPLAY: Display the current source or program digits.

Main Display Sources:
· TV
· PC
· SCART Video/
  SCART RGB
· Video/S-Video
· Component:
  Y PbPr/Y CbCr

SOUND:
· Stereo
· Monaural

Automatic Picture Control

Aspect Ratio Control

MENU/ENTER

TELETEXT
Functions

PIP Functions

MUTE

POWER

PROGRAM /
TELETEXT Page
Select

RETURN:
Return to previous
program/text page.

EXIT

VOLUME +/-

SLEEP TIMER

PROGRAM /
TELETEXT Page /
MENU item
Select.

RESET:
Reset to the
factory settings.

RM-L1703

13
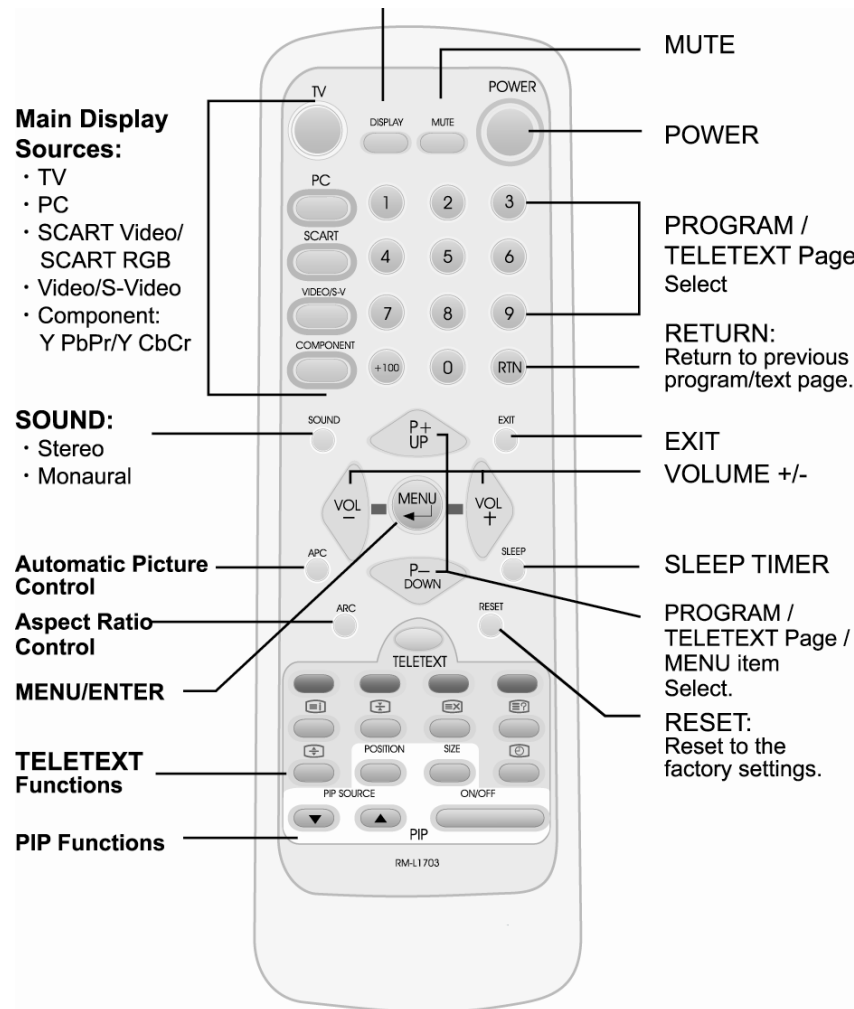
SUMMARY OF CONTROL BUTTONS

Selecting the Signal Source

TV	Switch to the TV mode.
PC	Switch to the PC mode.
SCART	Switch to the Video mode or RGB mode from SCART.
VIDEO/S-V	Switch to the Video mode from RCA socket or S-Video mode.
COMPONENT	Switch to the Component mode (YPbPr or YCbCr).
DISPLAY	Display the current source.

Menu Setting

MENU/ENTER	Display the main on-screen menu or enter the next menu.
UP/DOWN	Press to select the item you want to adjust in the OSD menu.
VOL- / VOL+	Press to decrease or increase the value in the OSD control bar.
EXIT	Exit from the menu.

Changing Channels

P- / P+	Press P- or P+ to change Programs in TV mode or Teletext page in TELETEXT mode.
0 ~ 9	To select programs directly in TV mode.
DISPLAY	Display the current program digits.
RTN	Press to return to the previous program.

Sound Control

VOL+ / VOL-	Press to turn up or turn down the volume.
MUTE	Press to switch the sound on or off.
SOUND	Press to choose Stereo, Bilingual and Monaural broadcasts.

Teletext Control

TELETEXT	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.
UPDATE	Press " UPDATE" 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.
RTN	Press to return to the previous viewed Teletext page.

PIP Control

ON / OFF	Press to watch one of the video sources on Sub-display, whilst in PC mode. Press again to turn off the Sub-display.
PIP Source	Press to select the PIP window input source as : Press ▲ button : TV→ SCART Video→SCART RGB→ Video→ S-Video→ Component Press ▼ button : Component→ S-Video → Video→ SCART RGB →SCART Video→ TV
SIZE	To make the PIP window double, large or small.
POSITION	Press to move the PIP window to: Top Left → Top Right→ Bottom Right → Bottom Left → Repeat.

NOTE: When you set Main-display at 1280x768/1024x768 resolution of PC mode and Sub-display
YPbPr, the screen will appear "Not Available". You should reduce the PC resolution to 800 X
600 or 640 X 480. The PIP function will then work.

Other Function

RESET	Reset to the original factory settings, such as the Luminance/Contrast/ Color Temp.
ARC	Set the picture window to Normal(4:3) → Panscan→ Zoom→ Full (16:9)
APC	To select Clear,Dark, Nomal mode for picture control.
SLEEP	Press to select a preset time interval for automatic power off .
🕐 SUB-PAGE/TIME	Press "Sub-Page/Time" To display the digital clock in TV mode.

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6.A.P.S. FIRST TIME INSTALLATION

1. After removing the LCD display packaging, ensure the product is installed in a safe and well ventilated position.

2. Insert two AAA type batteries into battery compartment on the rear of the remote control.

3. Make sure the 75 ohm external aerial and Power cord are properly connected.

4. Press the **POWER** button to switch the set on.

5. The Automatic Search menu will appear when switching on the TV first time.

<table>
<tr><td align="center">**Automatic Search**</td><td align="center">**Language**</td></tr>
<tr><td>Country
Language
Start
Exit</td><td>English
Français
Deutsch
Español
Italiano
Exit</td></tr>
</table>

6. Select Country with **UP**/**DOWN** button, then press **MENU** button repeatedly to select the country you are now located.

7. Select Language with **UP**/**DOWN** button, then press **MENU** button. Select a menu language with **UP**/**DOWN** button, press **MENU** button, and the menu language will be changed at once. Press **MENU** button again to return to the previous screen.

8. Select Start with **UP**/**DOWN** button, then press **MENU** button to start APS.The APS(Automatic Programming System) menu will appear on the screen.

> **APS RUNNING PLEASE WAIT**

 *To cancel APS,press the **EXIT** button.

9. After APS is finalized, the Program List will appear on the screen. You can select, rename, delete, insert programs within the Program List. (For details, see "Program List Settings".)

10.Use the number buttons to directly access the program. For example, to select program 27, press "2" then "7" .The TV will change programe when you press the second number.You can also press **P-/P+** button on remote control to change programs.

7.General Controls & Adjustment

Turning the LCD display On and Off

Press the **POWER** button on the Remote Control. You can also use the **POWER** button on the top of the panel.

Notice: To turn the unit on, the **POWER** button must be held down at least 0.5 seconds before it is released. This is to prevent the unit from being turned on accidentally.

Viewing the Menus and On-Screen Displays

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

Main Menu Screen

```
Main Display
Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit
```

2. Use the **UP**/**DOWN** button to select one of the menu options, and then press the **MENU** button to access to the Sub-menu.

3. Press the **MENU** button to return to the previous screen or press the **EXIT** button to exit from the menu.

Note: The menu varies with which input source is selected.

SWITCHING BETWEEN TV/PC/AV

1. Turn on the power of the connected video equipment.
2. Press the applicable button.

- Press **TV** button to switch to TV mode.
- Press **PC** button to switch to PC mode.
- Press **SCART** button once to switch to SCART Video mode (Composite Signal Input via SCART).
- Press **SCART** button again to switch to SCART RGB mode (RGB Signal Input via SCART).
- Press **VIDEO/S-V** button once to switch to Video mode (Composite Signal Input Via RCA Socket).
- Press **VIDEO/S-V** button again to switch to S-Video mode.
- Press **COMPONENT** button to switch to YCbCr or YPbPr.

VOLUME CONTROL

Using Volume Control

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

Using Mute

At any time, you 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.

Note: The mute function is automatically turned off if **VOL-** / **VOL+** is pressed .

MENU ITEMS

1. Press the **MENU** button to display the main menu screen.

2. Press **UP**/**DOWN** button to select the desired menu item.

3. Press **VOL-** / **VOL+** to make adjustments.

4. Press the **MENU** button to return to the previous screen or press the **EXIT** button to exit.

Main Menu Screen

```
Main Display
Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit
```

SETTING THE SLEEP TIMER

You can set the Sleep Timer to automatically turn off the TV view of LCD display.

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

The time can be set to 30 minutes , 60 minutes or 90 minutes.

30 min → 60 min → 90 min → off

CONTRAST AND BRIGHTNESS SETTINGS

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 the main menu .

2. Press the **UP**/**DOWN** button to move cursor to Contrast / Brightness.

3. Press the **MENU** button to enter Contrast / Brightness.

4. Press the **VOL-** / **VOL+** button to set the Brightness or Contrast.

5. Press the **MENU** button to return to the previous screen or press the **EXIT** button to exit.

Main Menu Screen

Main Display
Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit

Contrast / Brightness

Brightness
Contrast
Exit

Contrast

0   100

Contrast / Brightness

Brightness
Contrast
Exit

Brightness

-50   50
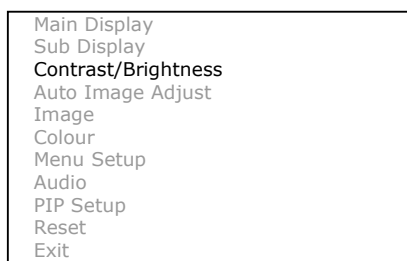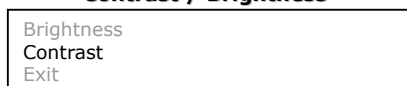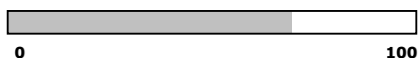
SETUP MENU SETTINGS

1. Press the **MENU** button to display the main menu screen.

2. Press the **UP**/**DOWN** button to move the cusor to Menu Setup.

3. Press the **MENU** button to enter Setup Menu.

4. This adjusts the blue background of the menu screens.

5. Decrease or increase the transparence of Menu.

6. Press the **MENU** button to return to the previous screen or press the **EXIT** button to exit.

Main Menu Screen

Main Display
Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit

Menu Setup

Transparence
Exit

Transparence

0   15

AUDIO MENU SETTINGS

1. Press the **MENU** button to display the main menu screen.

2. Press the **UP**/**DOWN** button to move the cusor to Audio Menu.

3. Press the **MENU** button to enter Audio Menu.

4. Press the **UP**/**DOWN** button to select the desired item
   (Bass, Treble or Sound Source).

5. Press the **MENU** button to enter the desired item
   (Bass, Treble or Sound Source).

6. Press the **MENU** button to return to the previous screen or press the
   EXIT button to exit.

Main Menu Screen

Main Display
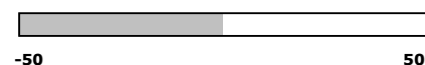Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit

Audio

Bass
Treble
Sound Source
Exit

Bass

-5   +5

Treble

-5   +5

Note:

When using the PIP feature in PC mode, you can listen to the sound of the sub screen instead of the main screen. To do so:

1.Select "Audio"

2.Select "Sound Source"

3.Select "Sub"

Then adjust the volume of the Sub-display using **VOL+** / **VOL-**.

Audio

Bass
Treble
Sound Source
Exit

Sound Source

Main
Sub
Exit

8.TV MODE ADJUSTMENT

ALTERING THE TV SETTINGS

1. Use the remote control **TV** button to set the input source to "TV" mode.

2. Press the **MENU** button to display the main menu screen.

3. Press the **UP**/**DOWN** button to select Programs.

4. Press the **MENU** button to enter.

5. Press the **UP**/**DOWN** button to the desired item.

6. Press the **MENU** button to set the desired item.

7. Select **EXIT** to return to the main menu screen or press the **EXIT** button to exit.

Main Menu Screen

Main Display
Contrast/Brightness
Colour/Sharpness
Menu Setup
Audio
Programs
Child Lock
Reset
Exit

Programs

Automatic Search
Manual Search
Program List
Exit

AUTOMATIC SEARCH PROGRAMS

1. Press the **MENU** button to display the main menu screen.

2. Press the **UP**/**DOWN** button to select Programs and press **MENU** button.

3. Select Country you are now located and the Language you desired, and then select Start to run APS. The APS menu will appear on the screen.

<div style="border:1px solid black; text-align:center">

APS RUNNING PLEASE WAIT

</div>

  *To cancel APS,press the **EXIT** button.
  (For details, please see "A.P.S. First Time Installation" on page 16)

4. After APS is finalized, the Program List will appear on the screen.

5. You can select, rename, delete or insert programs within the Program List.(For detail, please see "Program List Settings" on page 26)

6. Press **EXIT** button to exit.

Main Menu Screen

Main Display
Contrast/Brightness
Colour/Sharpness
Menu Setup
Audio
Programs
Child Lock
Reset
Exit

Programs

Automatic Search
Manual Search
Program List
Exit

Automatic Search

Country
Language
Start
Exit

MANUAL SEARCH PROGRAMS

To program a channel in a TV's program number manually :

1. Press **MENU** button to display the main menu.

2. Press **UP / DOWN** button to select Programs , and then press **MENU** button .

3. Press **UP / DOWN** button to select Manual Search , and then press **MENU** button .

4. Press **UP / DOWN** button to select Program , and then press **VOL-/ VOL+** button to select the program number where you want the tuned channel to be stored .

5. Press **UP / DOWN** button to select System , and then press **VOL-/ VOL+** button to set to B/G, D/K, I or L/L' .

6. Press **UP / DOWN** button to select Search , and then press **VOL- / VOL+** button .

● Press **VOL+** button to search forwards. If the found program isn't the desired one, press **VOL+** button again to search next available program .

● Press **VOL -** button to search backwards. If the found program isn't the desired one , press **VOL-** button again to search previous available program .

● To stop searching before a channel is found , press the reverse direction button . For example , when the TV is searching forward with **VOL+** button , press **VOL-** button to stop searching.

7. Press **UP / DOWN** button to select Store , and then press **MENU** button to store the searched channel to the program number you set .

8. Press **EXIT** to exit from the menu.

Programs	**Manual Search**
Automatic Search Manual Search Program List Exit	Program 02 System B/G Search ▶▶▶ Store Exit

PROGRAM LIST SETTINGS

Program List is used to display the Program numbers and names . You can use this list to change / edit Name , Delete , or Insert programs .

1. Press **MENU** button to display the main menu.

2. Press **UP / DOWN** button to select Programs, and then press **MENU** button.

3. Press **UP / DOWN** button to select Program List, and then press **MENU** button. All the program names of the tuned channels will be shown by the yellow colour.

4. Press **P+ / P- / VOL- / VOL+** button to select program. The selected Program number will be shown by the Green colour.

5. Press **EXIT** button to exit.

<div align="center">

Programs

Automatic Search
Manual Search
Program List
Exit

</div>

<div align="center">

Program List

1.	ARD--	11.	-----
2.	ZDF--	12.	-----
3.	RTL--	13.	-----
4.	RTL2-	14.	-----
5.	SAT1-	15.	-----
6.	-----	16.	-----
7.	-----	17.	-----
8.	-----	18.	-----
9.	-----	19.	-----
10.	-----	20.	-----

Name	Delete
Insert	

</div>

CHANGE OR EDIT NAMES

1. Move to the program number you want to rename or edit name by pressing **P+ / P- / VOL- / VOL+** button .

2. Press **RED** button .

3. Press **P+ / P-** button repeatedly to select a letter , and then press **VOL- / VOL+** button to select the position .(Each program name could be edited with 5 characters)

4. Press **RED** button again to Store.

```
Store                          P+
                          V-        V+
                               P-
```

DELECT THE PROGRAM

1. Move to the program number you want to delete by pressing **P+ / P- / VOL- / VOL+** button . The selected program number will be shown by the Green colour .

2. Press **GREEN** button . The corresponding channel will be deleted and all the other channels below this program number will be moved one program number up .

3. Press **GREEN** button again to Store .

```
                               P+
Store                     V-        V+
                               P-
```

INSERT THE PROGRAM

1. Move to the program to be inserted by pressing **P+ / P- / VOL- / VOL+** button .The selected program number will be shown by the Green colour .

2. Press **YELLOW** button .

3. Press **P+ / P- / VOL- / VOL+** button to move the selected program to the desired program number.

4. Press **YELLOW** button again to move off.

```
                               P+
                          V-        V+
Move off                       P-
```

SETTING THE CHILD LOCK

The CHILD LOCK feature automatically locks out the program that you selected.

Setting Up Your Personal ID Number (PIN)

1. Press the **MENU** button to display the main menu .

2. Press the **UP/DOWN** button to move the cursor to Child Lock, and then press the **MENU** button.

3. The "Please Enter Pin" screen will appear. At first time, you must enter 1111 (initial code).

4. Select Channel Lock.

5. Press **MENU** button. "**on**" will appear on the right side and the current program will be locked

6. Press **MENU** button again. "**off**" will appear on the right side and the current program will be unlocked.

7. Select Change Pin, if you want to change the Pin. As soon as the 4-digits are entered, the "Confirm new Pin" screen appears. Re-enter the same 4-digits. When the Confirm screen disappears, your PIN has been memorized. Press the **EXIT** button to exit.

Main Menu Screen

Main Display
Contrast/Brightness
Colour/Sharpness
Menu Setup
Audio
Programs
Child Lock
Reset
Exit

Please Enter Pin
- - - -

Channel Lock On
Change Pin
Exit

NICAM/IGR BROADCAST SELECTION

Depending on the particular program being broadcast, you can press the **SOUND** button to listen to stereo, bilingual or monaural.

1. Press the **SOUND** button directly to display the three states on the top right of the screen.

2. Press the **SOUND** button repeatedly to select the following states.

Stereo broadcast
- Each time you press **SOUND**, the mode changes between "Stereo" and "Mono".
- When"Mono" is selected, the TV sound is output monaurally.
   -In stereo reception, if the stereo signal is weak, you can switch to "Mono".

Bilingual broadcast
- Each time you press **SOUND**, the mode changes as follows:
   A → B → A/B → Mono
   -**A** sends the primary broadcast language to the loudspeakers.
   -**B** sends the secondary broadcast language to the loudspeakers.
   -**A**/**B** sends a seperate language to each loudspeaker.

Monaural broadcast (For NICAM broadcasts)
- Each time you press **SOUND**, the mode changes between "Nicam" and "Mono".
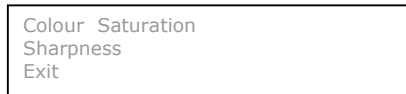
COLOUR/SHARPNESS SETTINGS

1. Press the **MENU** button to display the main menu screen.

2. Press the **UP**/**DOWN** button to move the cusor to Colour/Sharpness.

3. Press the **MENU** button to enter.

4. Press the **UP**/**DOWN** button to the desired item (Colour Saturation or Sharpness).

5. Press the **MENU** button to set the desired item (Colour Saturation or Sharpness).

6. Select **EXIT** to return to the main menu screen.

Main Menu Screen

```
Main Display
Contrast/Brightmess
Colour/Sharpness
Menu Setup
Audio
programs
Child Lock
Reset
Exit
```
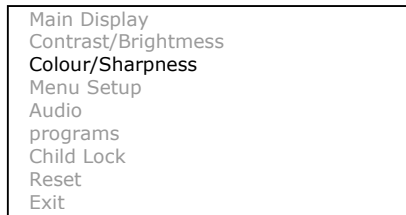
Colour/Sharpness

```
Colour  Saturation
Sharpness
Exit
```

Colour Saturation

```
0                                    100
```

Sharpness

```
-5                                   +5
```

9.TELETEXT

Teletext is a free service broadcast by most 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 , **P+**/**P-** 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 appear the teletext screen

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

* Press the **TELETEXT** button again to switch off teletext . The previous program reappears.

Teletext Page Selection

1. Enter the required Teletext page as a three digit numbers.

 -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

≡i **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.

≡x **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 on 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.

⏲ SUB-PAGE / TIME

<u>In Teletext mode</u> , sub pages are subsections of long Teletext pages that can only be displayed on the screen one section at a time .

* Select the required teletext page. (e.g. 524)

* Press **SUB-PAGE** button. "S****"will be display on the upper left corner.

* Select the required sub page number by pressing four digit buttons (e.g. 0001).

  -If the selected sub page is not displayed in a short time , press **UPDATE** button .
   TV program will be displayed on the screen.

* Teletext page number will be displayed on the upper left corner of the screen when the selected page is found.

* Press **SUB-PAGE** button twice to return to normal page sequence.

<u>In TV mode </u>, press this button to display the 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 .
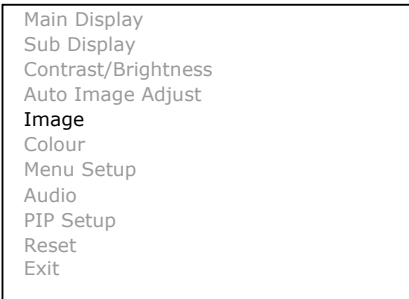
10.PC MODE ADJUSTMENT

Press the **PC** button to directly switch to PC mode. If PC input timing isn't the LCD TV's preset timing (refer to page 44), press Auto Image Adjust to optimize the image. If it still has Horizontal interference on screen, adjust Fine Tune to correct the phase.

IMAGE SETTINGS

1. Press the **MENU** button to display the main menu screen.

2. Press **UP/DOWN** button to move the cusor to Image.

3. Press the **MENU** button to enter Image adjust.

4. Press the **UP/DOWN** button to the desired item
   (H. /V. Position, H. Phase, Fine Tune).

5. Press the **MENU** button to set the desired item
   (H. /V. Position, H. Phase,Fine Tune).

6. Press the **MENU** button to return to the previous screen or press the
   EXIT button to exit.

Main Menu Screen

```
Main Display
Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit
```

Image

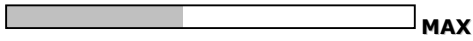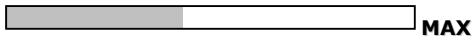| |
|---|
| H. /V. Position |
| H. Phase |
| Fine Tune |
| Exit |

H./V. Position

H. Position
V. Position
Exit

H. Position

MAX

V. Position

MAX

Image

H. /V. Position
H. Phase
Fine Tune
Exit

H. Phase

MAX
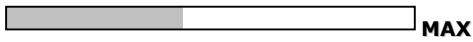
Image

H. /V. Position
H. Phase
Fine Tune
Exit

Fine Tune

MAX
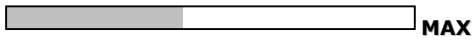
COLOUR SETTINGS

1. Press the **MENU** button to display the main menu screen.
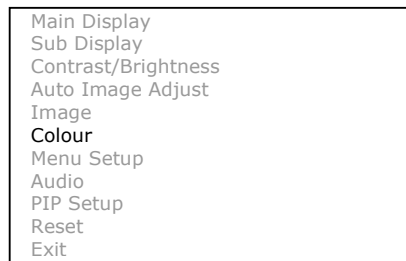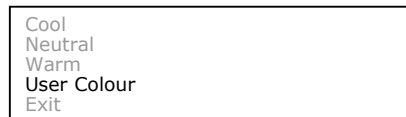
2. Press the **UP**/**DOWN** button to move the cusor to Colour.

3. Press the **MENU** button to enter Colour.

4. Press the **UP**/**DOWN** button to the desired item (Cool, Neutral, Warm,or User Colour).

5. Press the **MENU** button to set the desired item (Cool, Neutral, Warm,or User Colour).

6. Press the **MENU** button to return to the previous screen or press the **EXIT** button to exit.

Main Menu Screen
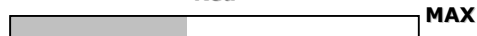
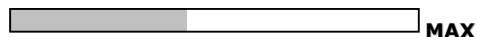Main Display
Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit

Colour

Cool
Neutral
Warm
User Colour
Exit

User Colour
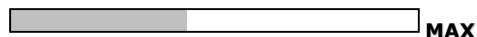
Red
Green
Blue
Exit

Red

MAX

Green

MAX

Blue

MAX

11.Viewing Picture-in -Picture (PIP)

PIP: When you select PC source as main display, you can also select another source TV, SCART, Video, S-Video, or Component (YPbPr/YCbCr) as sub-display.

You can use the PIP feature to watch two video sources simultaneously . (This function works in PC mode only.)

Quick Way to activate PIP

1.Press **PIP ON**/**OFF** Button on the remote control

2.Select a Signal Source for PIP:

Press the **PIP SOURCE UP**/**DOWN** button repeatedly to cycle through all of the available signal sources :

TV, SCART, Video, S-Video, Component (YPbPr/YCbCr).

3.Change the Position of the PIP Window:

When you press the **PIP POSITION** button repeatedly, the PIP window moves from corner to corner on theTV screen.

4.Change the Size of the PIP Window:

Press the **PIP SIZE** button to alternate between a smaller and Larger PIP window.

PIP Setup menu

Simply press the **ON**/**OFF** Button on the remote control or select sub display sources in the menu.

1. Press the **MENU** button to display the main menu screen.

2. Press the **UP**/**DOWN** button to select the PIP Setup.

3. Press the **MENU** button to enter PIP Setup.

4. Press the **UP**/**DOWN** button to the desired item (PIP Position, PIP Border Width, PIP Border Color, PIP H/V Ratio).

5. Press the **MENU** button to return to the previous screen or press the **EXIT** button to exit.

Main Menu Screen

Main Display
Sub Display
Contrast/Brightness
Auto Image Adjust
Image
Colour
Menu Setup
Audio
PIP Setup
Reset
Exit

PIP Setup

PIP Position
PIP Border Width
PIP Border Colour
PIP H/V Ratio
Exit

PIP Position

PIP H Position
PIP V Position
Exit

PIP H Position

MAX

PIP V Position

MAX

PIP Setup

PIP Position
PIP Border Width
PIP Border Colour
PIP H/V Ratio
Exit

PIP Border Width

MAX

PIP Setup

PIP Position
PIP Border Width
PIP Border Colour
PIP H/V Ratio
Exit

PIP Border Colour

White
Blue
Yellow
Green
Red
Black
Brown
Gray
Orange
Exit

PIP Setup

PIP Position
PIP Border Width
PIP Border Colour
PIP H/V Ratio
Exit

PIP H/V Ratio

MAX

12.AV MODE ADJUSTMENT

The Video sources include SCART Video/SCART RGB, Video, S-Video, YCbCr/YPbPr. You can select by pressing **SCART**, **Video/S-V**, or **COMPONENT** button.

Altering the VIDEO Adjust Settings :

1. Press the **MENU** button to display the main menu screen.

2. Press the **UP**/**DOWN** button to move the cusor to the desired item.

3. Press the **MENU** button to enter and adjust it.

4. Press the **MENU** button to return to the previous screen or press the **EXIT** button to exit.

Main Menu Screen

```
Main Display
Contrast/Brightness
Colour/Sharpness
Menu Setup
Audio
Reset
Exit
```

Note:

1. ALL the adjustment items in AV Menu are described in TV mode menu, so please refer to the TV mode Adjustment.

2. Using the PIP function with Component mode (YCbCr, YPbPr)as the sub-display requires that the PC resolution be set at no higher than 800 x 600.

13.OTHER FUNCTIONS

1. To use "**Channel up/down**" on the unit control panel as function buttons

   -When you press "**MENU**" to go into OSD, "**CH up/down**" will become the up/down function control buttons.

2. TO use "**-VOL+**" as level control buttons

   -When you press "**MENU**" to go into the sub control bar, then the level can be adjusted by the "**-VOL+**" buttons.

3. To use "**-VOL+**" as Mute control buttons

   -When you press both "**VOL+**" and "**VOL-**" buttons on the upper control panel simultaneously, the sound will be muted.

   -If you need to switch on the sound again, then either press "**MUTE**" button on the remote control unit or press any "**VOL+**" or "**VOL-**" button on the remote control unit or on the LCDTV itself.

4. "**Aspect**" button (Screen Aspect Ratio)

   ARC - Aspect Ratio Control

   * **Normal:** This sets the aspect ration to 4:3 for traditional TV programmes. There will be black bars at either side of the screen.

   * **Panscan:** Expands 4:3 video sources to fit the 16:9 screen by magnifying the image at the edges of the screen. This creates less distortion at the center of the screen.

   * **Zoom:** Some DVD movies may not fill the top and bottom of the screen. The zoom function extends the height to fill the screen.

   * **Full:** This mode expands the width of 4:3 video sources evenly to fill the 16:9 screen. There will be distortion at the center of the screen as well as the edges.

5. "**APC**"control button (Automatic Picture Control)

   - Press "**APC**" button on the remote control repeatedly to cycle through the APC settings. These settings are "Normal", "Clear"or "Dark". For example, when the screen is showing night scene or darker screen, you can use APC to change the screen to "Clear" and get a brighter picture. If the screen is too bright, you can use this APC button to change the screen to "Normal" or "Dark".

14. 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 call us!

There is no picture or sound.

- Make sure the AC adapter is properly inserted in the power outlet.
- Make sure the main power switch of the main unit is on.

There is no picture from AV/TV.

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

There is no picture from PC.

- Make sure the LCD display is not in Power Saving mode.
- Press any desired key or move the mouse to deactivate the mode.

There is no sound.

- Make sure the volume is not set to minimum .
- Make sure the sound is not set to mute.
- Make sure that headphones are not connected.

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 light.

- Check colour adjustment.
- Check colour system setting.

The picture is too dark.

- Check if the **APC** button is set to "Dark".
- Check Contrast/Brightness adjustment.

Remote control does not work.

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

The picture is doubled or tripled.

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

The picture is spotted.

- There may be interference from automobiles,trains, high voltage lines, neon light, etc.
- There may be interference between the antenna cable and power cable. Try possible them further apart.

There are stripes on the screen or colours fade.

- Is the unit receiving interference from other devices?   Trans- mission antennas of radio broadcasting station and transmission antennas of amateur radio and cellular phones may also cause interference.
- Use the unit as far apart as possible from device that may cause possible interference.

15.DIMENSIONS
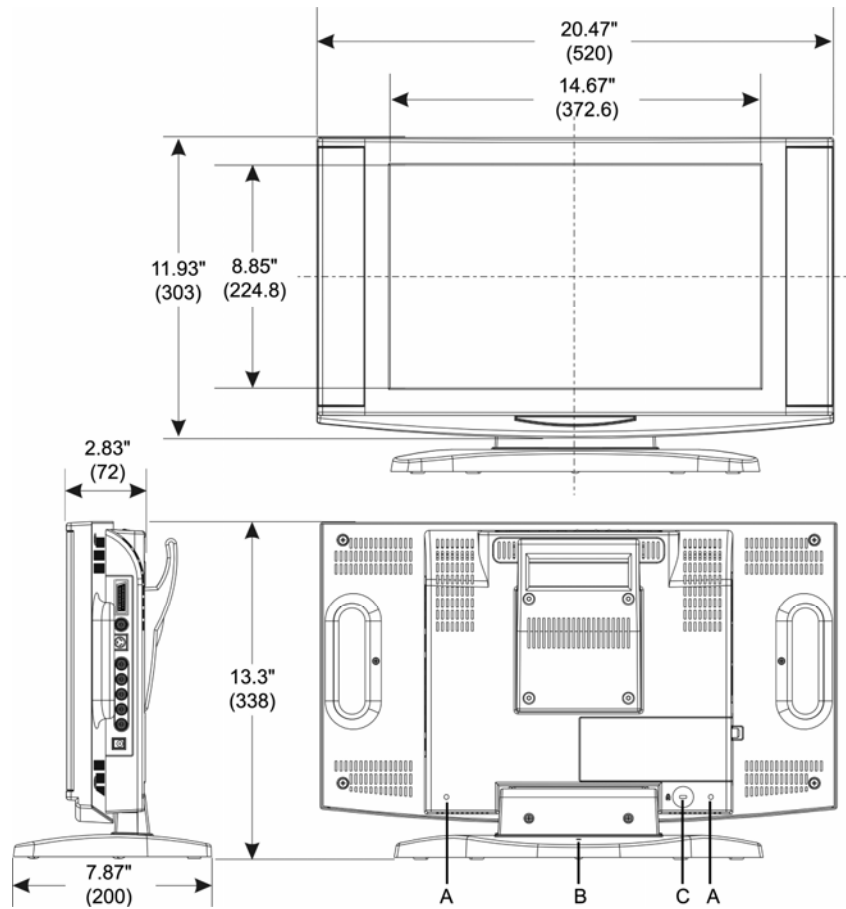
Unit : inch (mm)
Note:
A: Attach small cable clamp here
B: Attach large cable clamp here
C: Kensington slot

43

16.PC INPUT PRESET TIMING TABLE

Analog Input				
Mode No.	Mode Name Resolution	H.Freq.(KHZ) V.Freq.(HZ)	H. Polarity V. Polarity	Pixel CLK (MHZ)
1	VGA 70HZ 640*350	31.469 70.087	+ −	25.175
2	VGA 60HZ 640*480	31.469 59.941	− −	25.175
3	VGA 72HZ 640*480	37.861 72.81	− −	31.5
4	VGA 75HZ 640*480	37.5 75.0	− −	31.5
5	SVGA 56HZ 800*600	35.16 56.25	+ +	36.0
6	SVGA 60HZ 800*600	37.879 60.317	+ +	40.0
7	SVGA 72HZ 800*600	48.077 72.188	+ +	50.0
8	SVGA 75HZ 800*600	46.875 75.0	+ +	49.5
9	XGA 60HZ 1024*768	48.363 60.004	− −	65.0
10	XGA 70HZ 1024*768	56.476 70.069	− −	75.0
11	XGA 75HZ 1024*768	60.023 75.029	+ +	78.75
12	MAC VGA 640*480	35.0 66.667	− −	30.24
13	MAC VGA 832*624	49.725 74.550	− −	57.283
14	US TEXT 720*400	31.469 70.087	− +	28.322
15	WXGA 60HZ 1280*768	47.733 60.042	− −	80

17.SPECIFICATIONS

ITEMS		SPECIFICATION	
Display	Screen Size	17" TFT-LCD Panel	
	Aspect Ratio	16 : 9	
	Resolution	1280 x 768 (WXGA)	
	Display colors	262,144 colors	
	Contrast Ratio	400 : 1 (typical)	
	Brightness	400 cd / m^2 (typical)	
	Viewing Angle	160° (Hor.) / 160° (Ver.)	
	Response Time	Tr = 15ms / Tf = 10ms	
	OSD Language	English, French, German, Spanish, Italian	
TV Function	TV Standard (CCIR)	B/G , D/K , I and L/L' (Multi-Europe)	
	Color system	PAL / SECAM	
	Sound system	NICAM / A2 (IGR)	
	Teletext	10 pages (FLOF/TOP)	
Video I / O	Video Color System	PAL / SECAM / NTSC	
	AV1 (In / Out)	21-pin Scart (RGB & Composite) x 1	
	AV2 (In)	Video (Composite) x 1	Audio L/R x 1
		S-Video x 1	
		YCbCr&YPbPr x 1 DTV : 625p	
	AV3 (Out)	Video Out (Composite) x 1 (TV only)	
PC I / P	Signal I/P	Analog: D-Sub 15 pin (detachable cable)	
	PnP compatibility	DDC / 2B	
	I/P Frequency	Analog : f_H : 31KHz to 60KHz f_V : 56Hz to 75Hz	
	Recommended	Analog : 1024 x 768 (60Hz)	
	DTV ready (via D-Sub 15Pin)	DTV SYSTEM : 625P	
Audio O / P	Audio O / P : L / R	Speaker (built-in) : 2W + 2W (rms)	
		Headphone Mini-jack for stereo (3.5φ)	
		Line Out (RCA L/R)	
Other Functions	PIP under PC mode , Child lock , VESA Flat Panel Wall Mounting holes .		
Power	Power Supply	DC12V , 5A AC 110V~240V, 50/60Hz (external AC adapter)	
	Power Consumption	< 60 W	
Panel Tilt	Forwards / Backwards / Rotation	- 5° / + 15° / ± 180°	
Dimension	W x H x D	520mm x 303mm x 72mm	
	W x H x D (with stand)	520mm x 338mm x 200mm	
Weight (net)	Kg (w/o Accessories)	6.5Kg	
Accessories	User's Manual , Remote Control , Batteries , Power cord, AC Adapter , D-sub Signal Cable, Cable Clamps .		