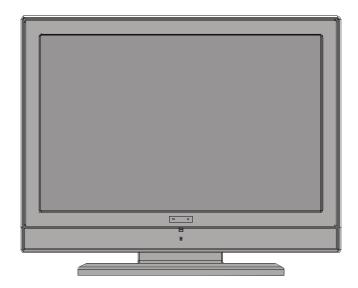


## **CE22LD94-B**

#### **INSTRUCTION MANUAL**

Colour television

ENGLISH 1 - 43



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

Problems with set-up?
Call 0870 240 7475

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## **Features**

- · Remote controlled colour television.
- Fully integrated digital TV (DVB-T).
- HD TV: It has an HDMI connector for Digital Video and Audio. This connection is also designed to accept High Definition signals.
- On Screen Display (OSD): Controlling the TV is very easy by its menu driven system.
- APS: Automatic Programming System.
- Stereo sound system (German+Nicam).
- AVL: Automatic Volume Limiting.
- · Child lock.
- · Sleep timer.
- Scart sockets and AV connectors.
- PC input.
- · S-VHS in are available.
- Plug & Play for Windows 9X, ME, 2000, XP, Vista.
- Fully functional teletext .
- · NTSC playback.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to standby mode.

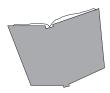
## **Accessories**



Remote Controller



Batteries 2XAAA



Instruction Book

## Introduction



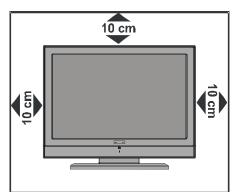
Thank you for choosing this product. This manual will guide you for the proper operation of your TV. Before operating the TV, please read this manual throughly.

Please do keep this manual in a safe place for future references.

## **Preparation**

For ventilation, leave a free space of at least 10 cm all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set.

Use this device in moderate climates.



## **Safety Precautions**

Please read the following recommended safety precautions carefully for your safety.

Power Source

The TV set should be operated only from a 220-240 V AC, 50 Hz outlet. Ensure that you select the correct voltage setting for your convenience.

#### **Power Cord**

Do not place the set, a piece of furniture, etc. on the power cord (mains lead) or pinch the cord. Handle the power cord by the plug. Do not unplug the appliance by pulling from the power cord and never touch the power cord with wet hands as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be placed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electric shock. When it is damaged and needs to be replaced, it should be done by qualified personnel.

#### Moisture and Water

Do not use this device in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this device to rain or



water, as this may be dangerous and do not place objects filled with liquids, such as flower vases, on top. Avoid from dripping or splashing.

If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

#### Cleaning

Before cleaning, unplug the TV set from the wall outlet. Do not use liquid or aerosol cleaners. Use soft and dry cloth.



#### Ventilation

The slots and openings on the TV set are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

#### **Heat and Flames**

The set should not be placed near to open flames and sources of intense heat such as an electric heater. Ensure that



no open flame sources, such as lighted candles, are placed on top of the TV. Batteries should not be exposed to excessive heat such as sunshine, fire or the like.

## Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.



## Replacement Parts

When replacement parts are required, make sure that the service technician has used replacement parts, which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock or other hazards.

#### Servicing

Please refer all servicing to qualified personnel. Do not remove the cover yourself as this may result in an electric shock.

## Waste Disposal

Instructions for Waste Disposal

- Packaging and packaging aids are recyclable and should principally be recycled.
   Packaging materials, such as foil bag, must be kept away from children.
- Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used battery in an environment friendly manner.
   Find out about the legal regulations which apply in your area.
- Cold cathode fluorescent lamp in LCD PANEL contains a small amount of mercury; please follow the local laws or regulations for disposal.

## **Disconnecting the Device**

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable.

## **Headphone Volume**

Excessive sound pressure from earphones and headphones can cause hearing loss.



#### Installation

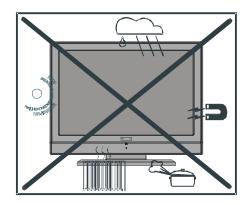
To prevent injury, this device must be securely attached to the wall in accordance with the installation instructions when mounted to the wall (if the option is available).

#### LCD Screen

The LCD panel is a very high technology product with about a million thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green or red point. Please note that this does not affect the performance of your product.

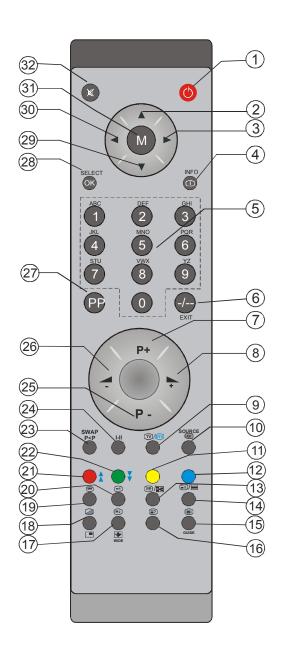
## Warning

Do not leave your TV in standby or operating mode when you leave your house.

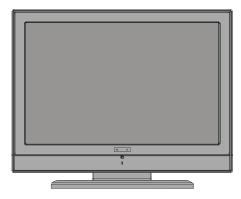


## **Overview of the Remote Control**

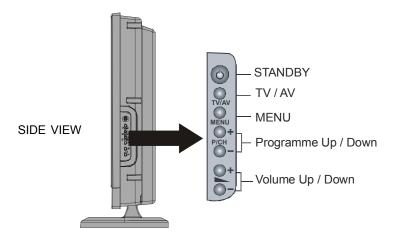
- 1 Standby
- 2 Cursor up
- 3 Cursor right
- (4) Info
- 5 Direct programme
- (6) No function
- 7) Programme up
- 8 Volume up
- (9) TV/Digital TV mode
- (10) External source
- (11) Feature
- (12) Instal
- (13) Hold/No function
- 14 Update/No function
- (15) Index page/Electronic Programme Guide (EPG)
- (16) Reveal/Switch from TV to PC
- (17) Expand/Image size
- (18) Mix/no function
- 19 Teletext
- 20 Time/Subtitle on-off
- ②1 Sound/Page up
- 22 Picture/Page down
- 23 Previous programme/No function
- (24) Mono-Stereo/Dual I-II
- (25) Programme down
- 26 Volume down
- 27) Picture mode selection
- 28 Okay/Freeze picture
- 29 Cursor down
- 30 Cursor left
- 31) Menu
- 32 Mute

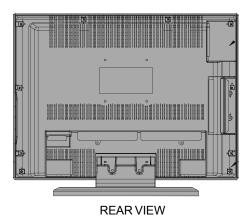


## **LCD TV and Operating Buttons**



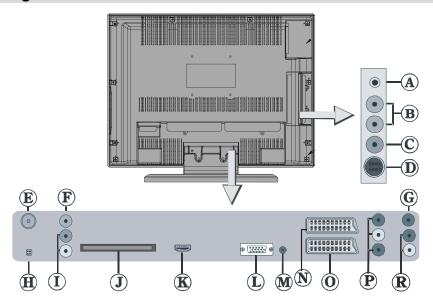
FRONT VIEW





English -8-

## **Viewing the Connections**



(A) Headphone jack is used for connecting an external headphone to the system.

Connect to the **HEADPHONE** jack to listen to the TV from headphones (optional).

B Audio Inputs are used for connecting audio signals of external devices.

Connect the audio cable between the **AUDIO INPUTS** on the TV and the **AUDIO OUTPUT** jacks on your device.

© Video Input is used for connecting video signals of external devices.

Connect the video cable between the **VIDEO IN** socket on the TV and the **VIDEO OUT** jack on your device.

① S-Video Input is used for connecting an S-Video signal (e.g. from a camcorder or VCR).

For using **S-VIDEO** input; connect the video cable between the **S-VIDEO** input on the TV and the S-Video output on your device. Connect the audio cable between the **AUDIO INPUTS** (indicated with letter **C** in the illustration) on the TV and the audio jacks on your device.

**E** RF Input connects to an antenna or a cable.

Note that if you use a decoder or a media recorder, you should connect the aerial cable through the device to the television with an appropriate antenna cable.

**® CVBS Video Out outputs** video signals to an external device such as recorder or monitor TV. You can use CVBS Video Out to send video signals to an external device. The source of the signal is defined by your selection of EXT-2 setting in the Feature menu.

For enabling the sound connection, use Audio Line Outs of the TV.

Connect your equipment to the TV via VIDEO (yellow) input.

- **©** S/PDIF Out is used for transferring digital audio signals. Use an RCA cable to transfer audio signals to a device that has S/PDIF input.
- This connector is for service use only.
- ① Audio Line Outs output audio signals to an external device such as an optional sound system.

To connect the external speakers to your TV, use **AUDIO LINE OUTS** of the TV with an audio cable.

- ① CI Slot is used for inserting a CI card. A CI card allows you to view all the channels that you subscribe to. For more information, see "Common Interface" section.
- **® HDMI Inputs** are for connecting a device that has an **HDMI** socket.

Your LCD Television is capable of displaying High Definition pictures from devices such as a High Definition Satellite Receiver or DVD Player. These devices must be connected via the HDMI sockets or Component Socket. These sockets can accept either 720p or 1080i signals. No sound connection is needed for an HDMI to HDMI connection.

① PC Input is for connecting a personal computer to the TV set.

Connect the PC cable between the PC INPUT on the TV and the PC output on your PC.

M PC Audio In is used for listening the PC sound from the TV.

Use a PC audio cable to connect between **PC Audio In** socket of the TV and **Audio Out** jack on your computer. See also "PC Audio In" explained in the Feature Menu section.

N SCART 1 inputs or outputs for external devices.

Connect the **SCART** cable between **SCART** sockets on TV and **SCART** socket on your external device (such as a decoder, a VCR or a DVD player).

**Note:** If an external device is connected via the **SCART** sockets, the TV will automatically switch to AV mode. If both sockets are employed at the same time, **SCART 1** becomes the preferential.

O SCART 2 inputs or outputs for external devices.

Connect the **SCART** cable between **SCART** sockets on TV and **SCART** socket on your external device (such as a decoder, a VCR or a DVD player).

P Component Video Inputs (YPbPr) are used for connecting component video.

You can connect the component video and audio sockets with a device that has component output. Connect the component video cables between the **COMPONENT VIDEO INPUTS** on on the TV and the component video outputs of your device. While connecting, be sure that the letters on your TV, "Y", "Pb", "Pr" correspond with your device's connectors.

(R) Component Audio Inputs are used for connecting component audio.

Connect the audio cable between **COMPONENT AUDIO INPUTS** on the TV and audio outputs of your device.

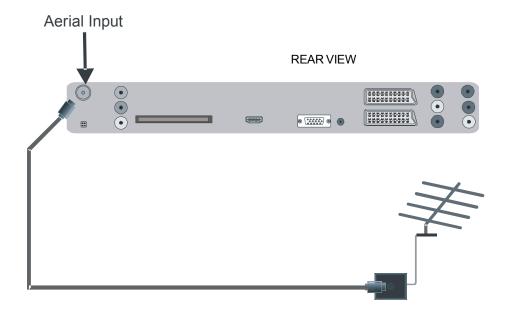
## **Power Connection**

IMPORTANT: The TV set is designed to operate on 220-240V AC, 50 Hz.

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.
- Plug the power cable to the mains socket outlet.

## **Aerial Connection**

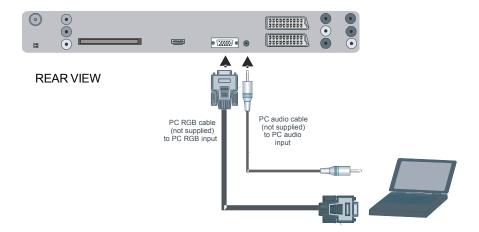
• Connect the aerial or cable TV plug to the AERIAL INPUT socket located at the rear of the TV.



## Connecting the LCD TV to a PC

For displaying your computer's screen image on your LCD TV, you can connect your computer to the TV set.

- Power off both computer and display before making any connections.
- Use 15-pin D-sub display cable to connect a PC to the LCD TV.
- When done, switch to PC source. See, "Input selection" section.
- Set the resolution that suits your viewing requirements.

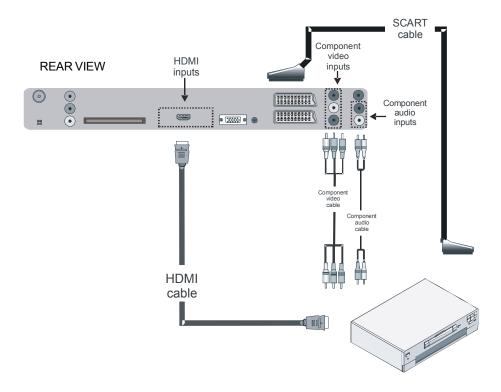


## Connecting to a DVD Player

If you want to connect a DVD player to your LCD TV, you can use connectors of the TV set. DVD players may have different connectors. Please refer to your DVD player's instruction book for additional information. Power off both the TV and the device before making any connections.

Note: Cables shown in the illustration are not supplied.

- If your DVD player has an **HDMI** socket, you can connect via **HDMI**. When you connect to DVD player as illustrated below, switch to HDMI source. See, "**Input selection**" section.
- Most DVD players are connected through COMPONENT SOCKETS. Use a component video cable to connect video input. For enabling audio, use a component audio cable as illustrated below. When the connection is made, switch to YPbPr (EXT-6) source. See, "Input selection" section.
- You may also connect through the SCART 1 or SCART 2. Use a SCART cable as shown below.

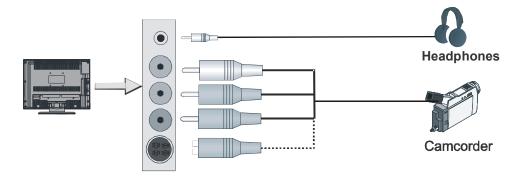


**Note**: These three methods of connection perform the same function but in different levels of quality. It is not necessary to connect by all three methods.

## **Using Side Connectors**

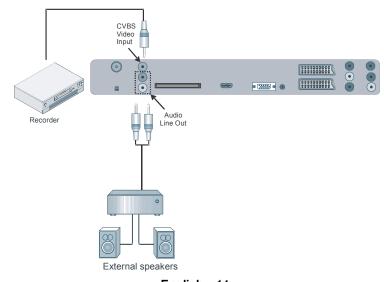
You can connect a range of optional equipment to your LCD TV. Possible connections are shown below. *Note that cables shown in the illustration are not supplied.* 

- For connecting a camcorder, connect to the **S-VIDEO** or **VIDEO IN** socket and the **AUDIO SOCKETS**. Do not connect the camcoder to **S-VIDEO** and **VIDEO IN** socket at the same time since it can cause noise in the picture. For selecting the related source, see the section "Input selection" in the following parts..
- To listen the sound from headphones, connect to the **HEADPHONE** jack of the TV.



## **Using Other Connectors**

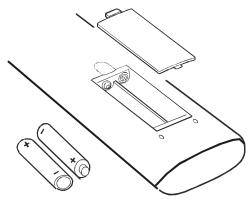
- For connecting a subwoofer, connect to the CVBS Video Input.
- To connect external speakers, use an audio cable. Do not reverse the AUDIO LEFT and AUDIO RIGHT jacks. Turn on the LCD TV and external speaker set after all connections are made. Refer to your speaker set's manual for further queries.



English - 14 -

# Inserting Batteries in the Remote Control Handset

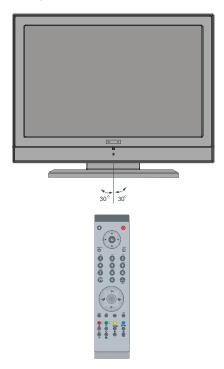
- Remove the battery cover located on the back of the handset by gently pulling backwards from the indicated part.
- Insert two AAA/R3 or equivalent type batteries inside. Place the batteries in the right directions and replace the battery cover.



Note: Remove the battery from remote control handset when it is not to be used for a long period. Otherwise, it can be damaged due to any leakage of batteries.

## Operating Range for the Remote Control

 Point the top of the remote control toward the LCD TV's remote sensor LED while pressing a button.



Remote range is approximately 7m/23ft.

## Switching the TV On/Off

#### To Switch the TV On

- Connect the power cord to the 220-240V AC.50Hz.
- Press STANDBY button. Then the standby LED lights up.
- To switch on the TV from standby mode either:
- Press the 🖒 button, P+ / P- or a numeric button on the remote control.
- Press the -P/CH or P/CH+ button on the TV.
   The TV will then switch on.

Note: If you switch on your TV via PROGRAMME UP/DOWN buttons on the remote control or on the TV set, the programme that you were watching last will be reselected.

#### To Switch the TV Off

- Press the button on the remote control or STANDBY button on the TV, so the TV will switch to standby mode.
- To power down the TV completely, unplug the power cord from the mains socket.

## **Input Selection**

Once you have connected external systems to your TV, you can switch to different input sources.

 Press the (AV) button on your remote control until the desired source is highlighted. The TV will then switch to the selected source after a short while.



## **Basic Operations**

You can operate your TV using both the remote control and onset buttons.

# Operation with the Buttons on the TV Volume Setting

Press — - button to decrease volume or —
 + button to increase volume, so a volume level scale (slider) will be displayed on the screen.

## **Programme Selection**

 Press P/CH + button to select the next programme or P/CH - button to select the previous programme.

## Viewing the Main Menu

Press the MENU button to enter main menu.
 In the main menu select sub-menu using P/CH - or P/CH + buttons and enter the sub-menu using - or + buttons. To learn the usage of the menus, refer to the menu system sections.

#### **AV Mode**

 Press the TV/AV button at the control panel on the TV to switch your TV to AV modes.

## **Operation with the Remote Control**

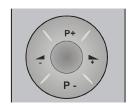
- The remote control of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.
- Functions of the menu system are described in the following sections.

## Volume Setting

Press **V** + button to increase the volume. Press **V** - button to decrease the volume. A volume level scale (slider) will be displayed on the screen.

# Programme Selection (Previous or Next Programme)

- Press **P** button to select the previous programme.
- Press **P** + button to select the next programme.



## **Programme Selection (Direct Access)**

- •Press numeric buttons on the remote control to select programmes between 0 and 9. The TV will switch to the selected programme. To select programmes between 10 999 (for IDTV) or 10-99 (for analogue), press the numeric buttons consecutively (e.g. for programme 27, first press 2 and then 7). When the pressing time is due for the second numeric button, only the first digit programme will be displayed. The limit of the delay time is 3 seconds.
- Press directly the programme number to reselect single digit programmes.

## **Initial Settings**

When the TV set is operated for the first time, the IDTV turns on first.

Because this is the first time the TV is used, there are no channels stored in the memory and the following message appears on the screen:



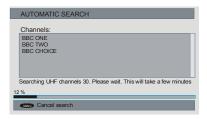
- To start installation process, select "Yes", to cancel select "No".
- To select the "Yes" or "No" option, highlight the item by using 

  or 

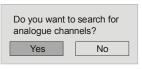
  buttons and press the OK button.

The IDTV will automatically tune to the UHF transmision channels 21 to 68, searching for digital terrestrial TV broadcasts and displaying the names of channels found. This process will take about five minutes. To cancel

searching, you can press the **M** button at any time during the process.



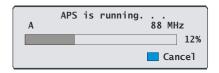
After **Automatic Search** is completed, the following message asking for analogue channel search appears on the screen:



To seach for analogue channels, select "Yes". TV switches to the analogue TV mode. The menu below is displayed to search for analogue channels:



Set your language by using ◀/▶ button. Press ▲ / ➡ button to highlight Country and use ◀/▶ button to set. Then, highlight TXT Language by using ▲ / ➡ button and set by pressing ◀ / ▶ button. To cancel, press the BLUE button. When finished, press the RED button to continue and the following OSD will be displayed:



For more information on this process, see "Install Menu" section.

NOTE: For proper functioning of digital teletext in DTV mode, you should set country as UK in analogue AUTO PROGRAM.

## **General Operation**

Pressing the value button at any time while watching television programmes will switch the TV set between displaying the digital terrestrial television broadcasting and its normal analogue broadcasting.

#### Information Banner

- Whenever you change channel, using the P-/P+ button or the numeric buttons, the TV displays the broadcast picture along with an information banner at the bottom of the screen. This will remain on the screen for approximately three seconds.
- The information banner can also be displayed at any time while watching TV by pressing the button on the remote control:

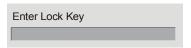


 The information banner gives information on the channel selected and the programmes on it. The name of the channel is displayed, along with its channel list number and an indication of the strength of the signal received.

**Hint:** Not all channels broadcast the programme data. If the name and time of the programme are not available, then "**No Information Available**" will be displayed in the information banner.

 Icons are also displayed in the information banner and if this channel is a favourite channel, favourite channel icon "villa" will also be displayed.

If the selected channel is locked, you must enter the correct four numeric code to view the channel. "Enter Lock Key" will be displayed on the screen in such a case:



## **Electronic Programme Guide (EPG)**

- Some, but not all, channels send information about the current and next events.
- Please note that event information is updated automatically. If there is no event information data available in channels, only channel names with "No Information Available" banner is displayed.
- Press GUIDE button to view the EPG menu.
- In EPG menu, you can easily see the extended help information by pressing i button.
- Press this button again to close this window.
- In the EPG menu, all channels are displayed.
   Current channel is highlighted. Use ▲ or ▼
   buttons to change channels. Also press
   GREEN/RED buttons to scroll up/down the pages for the channels.
- If you highlight an event; short event description, extended event description, start and end times of the event will be displayed on the screen.
- When the current programme is highlighted, the box is switched to the highlighted channel by pressing the **OK** button.
- If you press the **OK** button when a next event is highlighted, a reminder is set for the highlighted programme and a clock appears across the highlighted channel line.

Programme reminders can be set to signal that a programme is about to start when you are watching another channel. If you set reminder for a programme, then you will be asked for switching to that channel when the reminder time is reached.

- Press the **M** button to view the 7 day EPG.
- Press ▲ or ▼ button to navigate in Channels or Programmes.
- Press 

  or 

  button to navigate through the channel and programme list.



- With RED/GREEN buttons, you can change the schedule time. By pressing YELLOW/ BLUE you can advance the schedule backward/forward of a day.
- If you press i button you can see the detailed help information easily. Press i button again to exit help menu.
- The starting time for EPG is the current time.
   You can see the event information for the next two hours. By pressing ▲ or ▼ button, you can go to the next/previous hours while Programmes list is highlighted.
- If you press the **OK** button when a next event is highlighted, a reminder is set for the highlighted programme and a clock appears on the screen.
- Programme reminders can be set to signal that a programme is about to start when you are watching another channel. If you set

reminder to a programme, then you will be asked for switching to that channel when the reminder time is due.



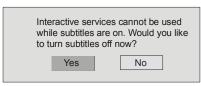
## Displaying the Subtitles

With digital terrestrial broadcasting (DVB-T), some programmes are broadcast with subtitles. Subtitles can be displayed while watching these programmes.

Press the **M** button to display the main menu, highlight the **Configuration** line using ▲ or ▼ button and press the **OK** button to display the configuration menu.

Highlight the "Subtitle" item in configuration menu and use ◀ or ▶ button to set Subtitle to Off or a language.

If "Subtitle" is on and a language option is set, pressing the button causes the following warning message display on the screen:



## **Digital Teletext**

With digital terrestrial broadcasting (DVB-T), in addition to pictures and sound, you can also view digital teletext.

Digital teletext is sometimes broadcast at the same time with the normal broadcasting.

- Press the button.
- The digital teletext information appears.
- Operate it with the coloured buttons, ◄/►/▼/
   ▲ buttons and OK button.

The operation method may differ depending on the contents of the digital teletext.

Follow the instructions displayed on digital teletext screen.

- When "Press SELECT" button or similar message appears on the screen, press the OK button.
- When the (Text) button is pressed, the TV returns to television broadcasting.
- With digital terrestrial broadcasting (DVB-T), in addition to digital teletext broadcasting at the same time with the normal broadcasting, there are also channels with just digital teletext broadcasting.
- The aspect ratio when watching a channel with just digital teletext broadcasting is the same as the aspect ratio of the picture watched previously.
- When you press the (Text) button again, the digital teletext screen will be displayed.

#### Over Air Download

To ensure that your IDTV always has the most up-to-date information, please ensure that, after use, it is set to standby mode. At 3 A.M. each day, the IDTV automatically searches for any new information which may be broadcast and will download this to your IDTV automatically. This operation will normally take approximately 30 seconds.

If you want to perform this, you need to set Automatic Download to "Enabled" in Receiver Upgrade setting.

#### Widescreen

Depending on the type of the broadcast being

transmitted, programmes can be viewed in a number of formats. Press the **WIDE** button repeatedly to select between **Auto**, **Full**, **4:3**, **Panoramic**, **Cinema** or **16:9 Subtitle**.

When **Auto** is selected, the format being displayed is determined by the picture being broadcast.

PLEASE NOTE: Menu size changes depending on the chosen image size.

## **IDTV Menu System**

The IDTV menu can only be viewed when watching digital terrestrial broadcasting. Press the \(\text{TV}\)/\(\text{ETV}\) button to turn IDTV on while the TV is in analogue mode.

Press the **M** button. The menu below appears on the screen:



#### **Channel List**

Using the ▲ or ▼ button on the remote control, make sure that the first item, Channel List, is highlighted and press the **OK** button to display the **Channel List**.

The following operations can be performed in this menu:

- Navigating the entire list of channels
- · Deleting channels
- · Renaming channels
- Adding locks to channels

· Setting favourites

Channel List is the place where the channels are managed.



## **Navigating the Entire Channel List**

Press ▲ or ▼ button for selecting the previous or next channel. You can press **RED** or **GREEN** button to move page up or page down.

To watch a specific channel, highlight it using ▲ or ▼ button and then press **OK** button, while the "**Select**" item on Channel List menu is highlighted by using ◀ or ▶ button.

Then the name and number of the selected channel will be displayed in the top-left and top-right of the channel display at the top-right of the screen, respectively.

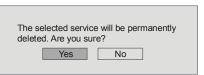
## Deleting the Channels in the Channel List

Press ▲ or ▼ button to select the channel that will be deleted.

Press ◀ or ▶ button to select the "Delete" item on Channel List menu. As seen on Channel List menu, SELECT is displayed next to Delete item at the bottom of the screen to indicate that you must press the OK button to delete the highlighted channel in the channel list.



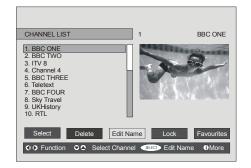
Press the **OK** button to delete the highlighted channel in the channel list. Then the message below appears on the screen:



Press ◀ or ▶ button to highlight the desired option. If **OK** button is pressed while "**Yes**" is highlighted, the highlighted channel is deleted. Selecting "**No**" cancels the deletion.

## Renaming Channels

To rename a specific channel, the channel must be highlighted by pressing ▲ or ▼ button. Then highlight the **Edit Name** item by pressing ◀ or ▶ button as illustrated below. Press the **OK** button to activate the rename feature.



Now pressing ◀ or ▶ button moves to the previous/next character. Pressing ▲ or ▼ button toggles the current character, i.e., 'b'

character becomes 'a' by ▼ and 'c' by ▲. Pressing the numeric buttons '0...9' replaces the highlighted character with the characters printed above the button one by one as the button is pressed.

Press the **M** button to cancel the editing or **OK** button to save the new name.

## **Adding Locks to Channels**

Channel locking provides a password-protected access to channels selected by parents. In order to lock a channel you should know the parental lock password (default value is set to 0000 in the factory and can only be changed from the **Configuration** menu).

Select the channel to be locked by highlighting it and select the **Lock** option by pressing ◀ or ▶ button. When the **OK** button is pressed, a dialog OSD asking for the password will be displayed.





Enter the password by using the numeric buttons on the remote control. The lock icon "will now be displayed next to the selected channel. Repeat the same operation to cancel the lock.

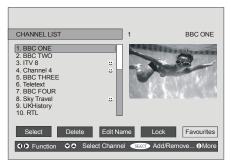
## **Setting Favourites**

You can set various channels as favourites so that only the favourite channels are

navigated. To set a favourite you should highlight the **Favourites** item at the bottom of the Channel List menu.

Use the ◀ or ▶ button to highlight the "Favourites" item at the base of the screen and then, in turn, highlight each channel you want to add to the favourites list, using the ▲ and ▼ buttons (or red/green buttons), and press the OK button.

A channel selected as a favourite appears in the main channel list with a favourites icon ( ) against the channel name as illustrated below:



## On Screen Help

For all menus, press the i button to display the help information about the menu functions. For **Channel List** menu the following message is displayed on the screen:

Press the SELECT button on your remote control to tune to the highlighted channel.

Press MENU to exit this screen.

#### Installation

The Installation menu is mainly intended to help you for creating a **Channel Table** in the most efficient way.

| Main Menu        |
|------------------|
| Channel List     |
| Installation     |
| Configuration    |
| Timers           |
| Language         |
| TV Setup         |
| Common Interface |

This menu includes the following items:

- · Add New Channels.
- · First Time Installation.

#### Add New Channels

This tuning menu consists of two parts:

- Automatic Search
- Manual Search

| Installation            |                  |
|-------------------------|------------------|
| Add New Channels •      | Automatic Search |
| First Time Installation | Manual Search    |

#### Automatic Search

Automatic search is started by pressing the **OK** button in the auto-search pop up menu. All the services will be searched and a channel table will be created automatically.

All channels found are stored in a sorted form with respect to their channel numbers. Some services may not appear with the correct channel number. If the broadcaster has no channel information, this may happen due to missing info.

#### Manual Search

In manual search, the number of the multiplex is entered manually and only that multiplex is searched for the channels. For every valid channel number, signal level, signal quality

and network name are shown at the bottom of the screen.

In both manual and auto search, any existing channel in the database is not re-stored to avoid redundant duplicates of that channel.

#### First Time Installation

The user can use this item to load default settings, which were loaded to the receiver at the factory.

To install factory settings, highlight "First Time Installation" menu and press the **OK** button.

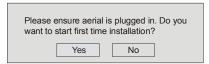


Then you will be asked to confirm for deleting all channels and settings:

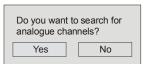


By selecting **Yes** and pressing the **OK** button, the existing channel table will be deleted.

After factory settings are loaded, "First Time Installation" menu will be displayed:



Press the **OK** button to start installation. After search is completed for digital channels, a message asking whether to search for analogue channels appears on the screen:



Press the **OK** button to search for analogue channels. The following menu appears on the screen for analogue channel search:



Set your language by using ◀/▶ button. Press ▲/▼ button to highlight Country and use ◀/▶ button to set. Then, highlight TXT Language by using ▲/▼ button and set by pressing ◀/▶ button. To cancel, press the **BLUE** button. When finished, press the **RED** button to continue and the following OSD will be displayed:



After APS is finalized, the programme table will appear on the screen. In the programme table you will see the programme numbers and names assigned to the programmes.

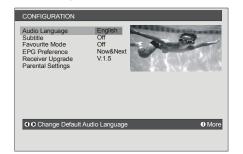
If you do not accept the locations and/or the programme names, you can change them in the program table.

## Configuration

Press the **M** button to display the main menu and press the **▼** button twice to highlight Configuration. Then press the **OK** button to display the configuration menu. Press the **M** button to leave the menu screen.



The various configuration functions are displayed in a list, along with a quarter-screen image of the currently selected channel. You can select a function by highlighting the corresponding menu line using the ▲ or ▼ button. Configuration menu will look like this:



## Audio Language

Digital terrestrial television channels can broadcast simultaneous soundtracks in more than one language. This function selects which language soundtrack you will hear when switching to a channel broadcasting with the multiple soundtracks.

Highlight the **Audio Language** line in the **Configuration** menu and use the ◀ or ▶ button to cycle through the language options.

#### Subtitle

Digital terrestrial television channels can broadcast subtitles displayed on the screen for hard-of-hearing people. This function selects the desired subtitle language and enables the automatic display of subtitles whenever subtitle information is broadcast.

Highlight the **Subtitle** line in the Configuration menu and use the ◀ or ▶ button to cycle through "**Off**" and language options.

#### **Favourite Mode**

This function enables or disables the favourite channel list mode.

Use ◀ or ▶ button to turn on/off favourite mode. If the "Favourite Mode" is on; while in normal operating mode, pressing P+ and P-buttons will only navigate through the channels that were previously defined as favourites in the channel list.

#### **EPG Preference**

Digital terrestrial television channels can broadcast simultaneous Next&Now and 7-Day electronic programme.

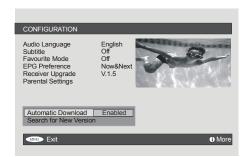
Highlight the EPG Preference line in the **Configuration** menu and use the ◀ or ▶ button to select **Next&Now** or **7-Day**.

## Receiver Upgrade

The IDTV can be upgraded via the configuration menu, entered from the main menu.

In the configuration menu, highlight the "Receiver Upgrade" item by pressing ▲ or ▼ button and press the OK button to start upgrade process.

There are two possibilities for receiver software to be upgraded: **automatic** and **manual**.



#### Automatic Download (Automatic Upgrade)

Automatic Download can be enabled or disabled by pressing ◀ or ▶ button. If it is enabled, then there are two ways for automatic upgrade:

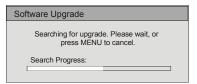
- The first one is checking the existence of a new software every time the IDTV goes to standby.
- The second one is being activated at 03:00
   A.M. every night, provided that the IDTV is left in standby mode.
- Both automatic upgrade methods result in standby mode either the upgraded or not.

If the automatic upgrade is set to "**Disabled**" then this function will not work.

## Search for New Version (Manual Upgrade)

Manual upgrade starts if the "Search for New Version" item is highlighted by using ▲ or ▼ button and activated via pressing the OK button.

After "Search for New Version" is activated, the IDTV tunes to each frequency that have been stored in its database and looks for the new software. During this process, the following OSD is displayed:



## **Parental Settings**

Some channels broadcast material which you do not want younger members of the family to watch. Any channel can be 'locked' so that it cannot be selected for viewing unless a four-digit PIN code is entered. In this way, any channel not suitable for younger viewers can be prohibited.

This function enables or disables the menu protection system and allows the PIN code to be changed.

Use ▲ or ▼ button to highlight Parental Settings option. Press the OK button to enter Parental Settings menu. A dialog box asking for the lock key is displayed:



There is only one key which is set to "0000" initially. Enter lock key. If wrong lock key is entered, the following message is displayed and the TV then returns to the previous menu:



If it is correct, the **Parental Settings** menu will be displayed including the following items:



There you can set/reset locking for the main menu or the installation menu to restrict access. If the menu lock is disabled, there will be free access to the menu system. Also in this menu you can change the lock key and set/change parental lock mode.

Disabled: All menus are unlocked.

Main Menu: Main menu is accessible only with the correct lock key. So the user cannot add, delete, rename, move channels, cannot set timers. **Installation:** Installation menu is locked, so the user cannot add channels.

**Note**: Changes will be updated after exiting configuration menu.

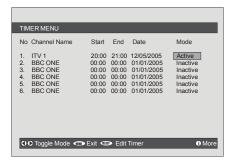
#### **Timers**

You can set a timer to switch the TV to any channel without your intervention. This is also for making video recordings of programmes when you are out.

Display the main menu by pressing the **M** button. Highlight the **Timers** line by pressing **△** or **▼** button and press the **OK** button to display the Timer menu:



Up to five separate timer events can be set and each is displayed in the Timer screen, showing the event number, the channel to be selected, the start time, end time, date and the mode - whether that event is active (and will be acted on) or not.



• To set an event, highlight its mode button

using the ▲ or ▼ button and press the **OK** button to display the timer entry window.

| Name:<br>Start:<br>End:<br>Date: | 3. ITV 1<br>00:00<br>00:00<br>03/06/2005<br>Once |
|----------------------------------|--|
| End:                             | 00:00  |

- Here the five settings consisting of the channel name, start time, end time, date and frequency mode can be set. You can move freely between each setting using the ▲ or
   ▼ buttons
- The channel name is set using the 

  or 

  button to display the channel which broadcasts the programme.
- The start time, end time and date are each set with the numeric buttons on the remote control in 24-hour format.
- The frequency mode determines how often the receiver operates this event and is set with the ◀ or ▶ button to be either Once, Daily, or Weekly.

If an invalid number for the start or end times or the date is entered, "Entered time is not valid" message appears on the menu screen.

If timer action occurs while the TV is being watched, the TV switches to the selected channel. When timer expires, the TV switches back to the channel which it is switched from.

Selected digital channel will be output via Scart-2. You should connect your VCR to Scart-2 for recording digital broadcast.

## Language

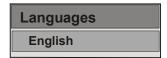
Some programmes are broadcast in two or more languages simultaneously. The language thus can be selected from the Language menu.

Press the M button to display the main menu
 and use ▲ or ▼ button to highlight the

Language line and press the **OK** button:



 Use the ▲ or ▼ button to highlight the soundtrack language required and press the OK button. Normal viewing, with the required language soundtrack, can be resumed by pressing the M button.



## **TV Setup**

You can use this item to display the TV functions.

The digital TV Setup menu screen is accessed from the main menu. Press the M button to display the main menu and use ▲ or ▼ button to highlight "TV Setup", press the OK button to display TV Setup menu screen.



You can find detailed information for all menu items in "Analogue TV Menu System" section.

#### **Common Interface**

 Press the M button to display the main menu and use the ▲ or ▼ button to highlight the "Common Interface" line and press the OK button:



It is required to subscribe to a pay channel company to view the pay channels of the digital terrestrial broadcasting.

Obtain the Conditional Access Module (CAM) and the viewing card by subscribing to a pay channel company, then insert those to the TV using the following procedure.

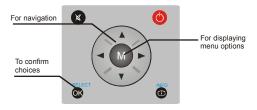
- Switch off the TV and unplug from the mains.
- Insert the CAM, then viewing card to the slot that is located in the terminal cover at the left-hand side of the TV (from front view).
- The CAM should be correctly inserted, it is impossible to insert fully if reversed. The CAM or the TV terminal may be damaged if the CAM is forcefully inserted.
- Connect the TV to the mains supply, switch on and then wait for few moments until the card is activated.
- Some CAMs may require the following set up. Please set the CAM by entering the IDTV menu, Common Interface then pressing the OK button. (CAM set up menu is not displayed when it is not required.)
- To see the viewing contract information: enter

IDTV; press the **M** button, then highlight **Common Interface** and press the **OK** button.

- When no module is inserted, "No Common Interface module detected" message appears on the screen.
- Refer to the module instruction manual for details of the settings.

NOTE: Insert or remove the CI module only when the TV is in STANDBY mode or SWITCHED OFF.

# Navigating the Analogue TV Menu System



- Press M to display the main menu.
- Press ◀ or ▶ button to select an icon. Press
   ▼ or OK button for more options.
- Use ▲ or ▼ button to highlight.
- Press ◀ or ▶ buttons to change the settings.
- To exit the menu or return from sub-menu screen, press **M**.

Note: These explanations are valid for the navigation of the whole menu system.

To select options that are explained in the following parts, refer to "Navigating the Analogue TV Menu System".

## **Analogue TV Menu System**

#### **Picture Menu**



#### Mode

For your viewing requirements, you can set the related **mode** option.

Press ▲ or ▼ button to select **Picture Mode**.

Press ◀ or ► button to choose from one of these options; **Cinema**. **User**. **Dynamic** and **Natural**.

## Brightness/Contrast/Colour/ Sharpness/Tint

Press ▲ or ▼ button to select the desired option. Press ◀ / ▶ button to set the level.

Hint: Tint (Hue) is displayed in picture menu when the TV receives an NTSC signal.

## **Colour Temp**

Press ▲ or ▼ button to select Colour Temp.

Press ◀ / ▶ to choose from one of these options: Cool, Normal and Warm.

#### Note:

 Setting Cool option gives white colours a slight blue stress.

#### Noise Reduction

If the broadcast signal is weak and the picture is noisy, use **Noise Reduction** setting to reduce the noise amount.

Press ▲ or ▼ button to select **Noise**Reduction. Press ◀/ ▶ to choose from one of these options: Low, Medium, High or Off.

#### **Picture Zoom**

Picture Zoom setting enables you to select the aspect ratio of the broadcast.

Select Picture Zoom by pressing ▼ / ▲ button. Use ◀ / ▶ buttons to change Picture Zoom to Panoramic, 14:9, Cinema, Subtitle, Zoom, Auto, 16:9 or 4:3.

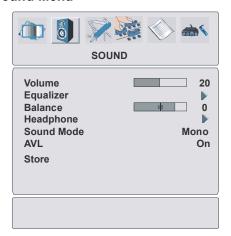
#### Store (optional)

Press ▲ or ▼ button to select **Store**. Press ► or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

#### Reset

Press ▲ or ▼ button to select **Reset**. Press ◀ / ▶ or **OK** button to reset the picture modes to factory default settings.

#### Sound Menu

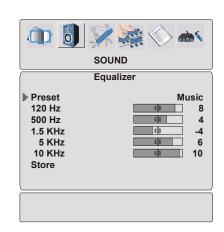


#### Volume

When you enter the sound menu, Volume will be the first selected option. Press ◀ / ▶ button to change the level of the Volume.

## Equalizer

Press ▲ or ▼ button to select **Equalizer**. Press ▶ button to view Equalizer submenu:



Press • / b button to change the preset. In equalizer menu, the preset can be changed to Music, Movie, Speech, Flat, Classic and User.

Select the desired frequency by pressing ▼ / ▲ button and increase or decrease the frequency gain by pressing ◀ / ▶ button.

**Note:** Equalizer menu settings can be changed only when the mode is in User.

## Store (optional)

Press ▲ or ▼ button to select **Store.** Press ► or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

#### Balance

This setting is used for emphasizing the left or right speaker balance.

Press ▲ or ▼ button to select **Balance**. Press ◀ / ▶ button to change the level of the balance. Balance level can be adjusted between -32 and + 32.

## Headphone

Press ▲ or ▼ button to select **Headphone**.

Press ▶ button to view the headphone menu.

#### Volume

Press ▲ or ▼ button to select **Volume**. Press ▶ button to increase headphone volume level.

Press • button to decrease headphone volume level. Headphone volume level can be adjusted between 0 and 63.

#### Sound Mode

Press ▲ or ▼ button to select **Sound Mode**. Using ∢ / ▶ button, you can select **Mono**, **Stereo**, **Dual I** or **Dual II** mode, only if the selected channel supports that mode.

#### **AVL**

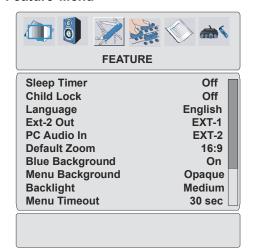
Automatic Volume Limiting (AVL) function adjusts the sound to obtain fixed output level between programmes (For instance, volume level of advertisements tends to be louder than programmes).

Press ▲ or ▼ button to select **AVL**. Press ◀/ ▶ button to set the AVL as On or Off.

#### Store (optional)

Press ▲ or ▼ button to select **Store.** Press ► or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

#### Feature Menu



## Sleep Timer

Press ▲ or ▼ button to select **Sleep Timer**. Use ◀/▶ button to set the **Sleep Timer**.

The timer can be programmed between **Off** and **120** minutes in steps of 10 minutes.

If **Sleep Timer** is activated, at the end of the selected time, the TV goes automatically to standby mode.

#### **Child Lock**

Press ▲ or ▼ button to select Child Lock.

Use ◀ / ▶ button to set the Child Lock **On** or **Off**. When On is selected, the TV can only be controlled by the remote control handset. In this case the control panel buttons (except for the **STANDBY** button) will not work.

Hence, if one of those buttons is pressed, "Child Lock On" will be displayed on the screen when the menu screen is not visible.

## Language

Press ▲ or ▼ button to select **Language**. Use ◀ / ▶ button to select the **Language**.

#### Ext-2 Out

Use this setting to define Ext-2 signal output.

Press ▲ or ▼ button to select Ext-2 Out. Use ◀ / ▶ button to set Ext-2 Out to TV/DTV, EXT1,FAV, S-VIDEO, YPbPr Audio, PC Audio or Screen.

#### PC Audio In

This setting controls the PC audio signal. Press ▲ or ▼ button to select PC Audio In. Use ∢/ ▶ button to set PC Audio In to TV/DTV, EXT-1, EXT-2, FAV, S-VIDEO, YPbPr Audio or PC Audio.

#### **Default Zoom**

While zoom mode is set as **AUTO**, the TV will set the zoom mode in accordance with the signal of the broadcast. If there is no WSS or aspect ratio information, the TV will then use this setting to adopt.

Press ▲ or ▼ button to select **Default Zoom**. You can set **Default Zoom** to **16:9, 4:3, Panoramic** or **14:9** by pressing ◀ / ▶ button.

#### **Blue Background**

If the signal is weak or absent, the TV will automatically change to a blue screen. To enable this, set **Blue Background** to On.

By pressing ▲ or ▼ button, select Blue Background. Press ∢ / ▶ button to set Blue Background as On or Off.

## Menu Background

Press ▲ or ▼ button to select **Menu Background.** You can set menu background to Opaque or Translucent by pressing ◀ / ▶ button.

## **Backlight**

This setting controls the backlight level. Select Backlight by pressing ▲ or ▼ button. Press ◄ / ▶ button to set Backlight to Medium, Maximum or Minimum.

#### **Menu Timeout**

To set a specific display timeout for menu screens, set a value for this option.

Press ▲ or ▼ button to select **Menu Timeout**. Use ◀ / ► button to change menu timeout to **15 sec. 30 sec** or **60 sec**.

## **TXT Language**

Press ▲ or ▼ button to select TXT Language.

Use ◀ / ▶ button to change Teletext

Language to West, East, Cyrillic, Turk/Gre,

Arabic or Persian.

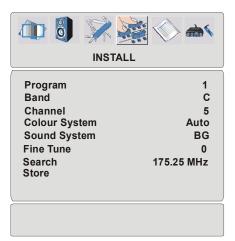
#### **Antenna Power**

When antenna power option is set as On, +5V will be transmitted to the antenna output.

This feature enables the use of active antennas.

**Note**: Antenna power should be "Off" when standard antenna is used instead of the active antenna.

#### **Install Menu**



## **Program**

Press ▲ or ▼ button to select **Program**. Use ◀ / ▶ button to select the program number. You can also enter a number using the numeric buttons on the remote control. There are 100 programme storage between 0 and 99.

#### Band

Band can be selected either **C** or **S**. Press ◀ / ▶ button to select **Band**.

#### Channel

Channel can be changed by ◀ / ▶ button or numeric buttons.

## Colour System

Press ▲ or ▼ button to select **Colour System**. Use ◀ / ▶ button to change the colour system to **PAL**, **PAL 60**, **SECAM** or **AUTO**.

## Sound System

Press ▲ or ▼ button to select **Sound System**. Press ◀ / ► button to change the sound system to **BG,DK, I, L** or **L**'.

#### Fine Tune

Press ▲ or ▼ button to select **Fine Tune**. Press ◀ / ▶ button to adjust the tuning.

#### Search

Press ▲ or ▼ button to select **Search**. Use ◀ / ▶ button to start programme searching. You can also enter the desired frequency using the numeric buttons while Search item is highlighted.

#### Store

Press ▲ or ▼ button to select **Store**. Press ► or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

#### Install Menu in AV Modes

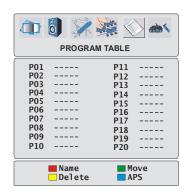
The following screen appears in the install menu when the TV is in AV modes. Note that limited options will be available. Switch to TV mode for viewing complete version of the **Install** menu.



Colour System and Store explanations are explained in the Feature Menu items.

## **Program Table**

Press **M** button to view the main menu and then use ◀ / ▶ button to highlight the fifth icon. Program Table appears on the screen:



Program Table lists the channels that are stored in the memory. By moving the cursor in four directions, you can reach 20 programmes in the same page. You can scroll up or scroll down to see all the programmes while in TV mode by pressing the navigation buttons. By cursor action, programme selection is done automatically.

#### Name

To change the name of a programme, select the desired programme and press the **RED** button.

The first letter of the selected name starts to blink. Press ▲ / ➡ button to change that letter and ◀ / ▶ button to select the other letters. By pressing the YELLOW button, you can store the name.

#### Move

Select the programme that you want to insert by using the navigation buttons. Press the **GREEN** button. Using navigation buttons, move the selected programme to the decided programme space and press the **GREEN** button again.

#### Delete

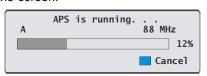
To delete a programme, press the **YELLOW** button. Pressing the **YELLOW** button again erases the selected programme from the programme list and the programmes below shift one line up.

#### APS (Auto Programming System)

When you press the **BLUE** button for APS, **Auto Programming System** menu will appear on the screen:



Set your country by using ◀ / ▶ button. If you want to cancel the process, press the **BLUE** button. To continue automatic tuning, press **RED** and the following menu will be displayed on the screen:



After APS is finalized, the programme table will appear on the screen.

#### Source Menu

Select the sixth icon on the main menu by pressing ◀ / ▶ button. Source menu appears on the screen:



In source menu, highlight a source by pressing ▲ / ▼ button and switch to that mode by pressing ▶ or **OK** button.

Note: You can mark desired source options by pressing **OK** button. Therefore, when w button is pressed, only the marked source options will be available.

## **PC Mode Menu System**

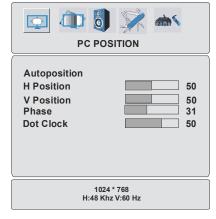
See the "Connecting the LCD TV to a PC" section for connecting a PC to the TV set.

For switching to **PC** source, press the (AV) button on your remote control and select **PC** input.

Note that PC mode menu settings are available only while the TV is in PC source.

#### **PC Position Menu**

Press **M** button to display menu screen. PC Position menu will appear:



## **Autoposition**

If you shift the picture horizontally or vertically to an unwanted position, use this item to put the PC picture into correct place automatically.

Select **Autoposition** item by using ▼ / ▲ buttons. Press ▶ or **OK** button.

**Warning:** Auto position adjustment recommended to be done with the full screen image for the proper adjustment.

## H (Horizontal) Position

This item shifts the image horizontally to right hand side or left hand side of the screen.

Select **H position** by pressing **▼** / **△** button. Use **4** / **▶** button to adjust the value.

## V (Vertical) Position

This item shifts the image vertically towards the top or bottom of the screen.

Select **V** position by pressing **v** / **△** button. Use **√** / **▶** button to adjust the value.

#### **Phase**

Depending on the resolution and scan frequency that you input to the TV set, you may see a hazy or noisy picture on the screen. In such a case, you can use this item to get a clear picture by trial and error method.

Select **Phase** by pressing ▼ / ▲ button. Use ◀ / ▶ button to adjust the value.

#### **Dot Clock**

**Dot Clock** adjustments correct interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.

Select **Dot Clock** by pressing **▼**/**△** button. Use **△**/**→** button to adjust the value.

#### Picture Menu

After pressing **M** button to display the menu screen, use ◀/▶ buttons to select second icon. Press ▼/▲ button to highlight a desired option. Contrast, Brightness, Colour, Colour Temp, Picture Zoom and Reset items explanations are

Picture Zoom and Reset items explanations are identical with the ones explained in the "Picture Menu" section of the instruction book. Refer to the related titles for controlling these items.

Note that if you set Colour Temp item to **User**, Red, Green and Blue settings will be active. Use ▼
/ ▲ and ◀ / ▶ buttons to set values that you desire.

#### Sound Menu

The items in this menu are described at "Sound Menu" section explained in the "Menu System".

#### **Feature Menu**

Feature menu settings are identical to the settings explained in "Feature Menu" section in the "Menu System" section.

#### Source Menu

To switch back watching TV, you can use Source Menu by controlling the items with ▼ / • and • / • buttons.

Source menu items are identical with the ones explained in "Source Menu" section in the "Menu System".

When the signal is avaliable as DVI to HDMI, that is WIDE (ZOOM) is performed. In the case of the HDMI signal, it is being fixed to "16:9".

## **Displaying TV Information**

Programme Number, Programme Name, Sound Indicator and Zoom Mode information are displayed on the screen when a new programme is entered or i button is pressed.

#### **Mute Function**

Press what button to disable sound. Mute indicator will be displayed in the upper side of the screen.



To cancel mute, there are two alternatives; the first one is pressing the 🖒 button and the second one is increasing the volume level.

## **Freezing Picture**

You can freeze the picture on the screen by pressing the **OK** button on the remote control. Press the **OK** button to freeze picture. Press again to quit freeze mode.

**Note**: This feature will be unavailable to be used while watching PC, YPBPr and HDMI sources.

## **Zoom Modes**

You can change the aspect ratio of the TV for viewing the picture in different zoom modes.

Press • WIDE button to directly change the zoom mode. Available zoom modes are listed below:

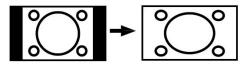
#### Auto

When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode according to the WSS signal.

 When the AUTO mode does not function correctly due to poor WSS signal quality or when you want to change the **ZOOM** mode, change to another **ZOOM** mode manually.

#### 16:9

This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



• For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the **16:9** mode to restore the picture to its original shape.

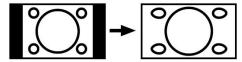
#### 4:3

Use to view a normal picture (4:3 aspect ratio) as this is its original size.



#### **Panoramic**

This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural.



The top and bottom of the picture are slightly cut off.

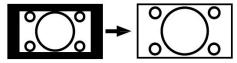
#### 14:9

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



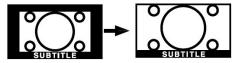
#### Cinema

This zooms up the wide picture (16:9 aspect ratio) to the full screen.



#### Subtitle

This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



#### Zoom

This mode zooms to the wide picture.



## **Teletext**

Teletext system transmits information such as news, sports and weather on your TV. Note that if the signal becomes insufficient, some text errors may occur or the teletext mode may be quitted.

**Teletext function buttons** are listed below:

## Teletext On-Off / PAT mode

Activates teletext mode when pressed once. Pressing this button again will split the screen into two windows, one displaying the teletext and the other displaying the current channel. Pressing again will quit the teletext mode.

## (i) Index

Selects the teletext index page.

## **⊘** Mix

Places the teletext screen over the programme.

## **E**xpand

Press once to enlarge top half of the page,

press again to enlarge the bottom half of the page. Press again to revert back to normal size.

#### Reveal

Shows hidden information (e.g. solutions of games).

## **■** Hold

Holds a text page when convenient. Press again to resume

## Subcode Pages / Time

Selects subcode pages if available when the teletext is activated. When the teletext is not activated, displays time info if the programme has teletext transmission.

#### P+ / P- and numbers (0-9)

Press to select a page.

**Note**: Most TV stations use code **100** for their index pages.

#### **Coloured Buttons**

## (RED/GREEN/YELLOW/BLUE)

Your TV supports both **FASTEXT** and **TOP text** systems. When these systems are available, the pages are divided into groups or topics.

When **FASTEXT** system is available, sections in a teletext page will become colour-coded and can be selected by pressing the coloured buttons. Press a coloured button that corresponds to with your needs.

The coloured writings will appear, showing you, which coloured buttons to use when **TOP text** transmission is present. Pressing **P** - or **P** + commands will request the next or previous page respectively.

## **Tips**

#### Screen Care

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the coating layer of the TV screen.

For your safety, unplug the mains plug when cleaning the set. When moving the TV, hold it properly from the bottom part.

#### **Image Persistence**

Please note that ghosting may occur while displaying a persistent image. LCD TVs' image persistence may disappear after a short time. Try turning off the TV for a while.

To avoid this, do not leave the screen in still picture for extended periods.

#### No Power

If your TV system has no power, please check the main power cable and connection to the mains socket outlet.

#### **Poor Picture**

Have you selected the correct TV system? Is your TV set or house aerial located too close to a non-earthed audio equipment or neon lights, etc.?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

Is the picture or teletext unrecognisable? Check if you have entered the correct frequency.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

#### No Picture

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

**No Picture** means that your TV is not receiving a transmission. Have you selected the correct button on the remote control? Try once more.

#### Sound

You cannot hear any sound. Did you perhaps interrupt the sound, pressing the 🖒 button? Sound is coming from only one of the speakers. Is the balance set to one extreme? See **Sound** menu.

#### Remote Control

Your TV no longer responds to the remote control. Perhaps the batteries are exhausted. If so you can still use the local buttons at the bottom of the TV.

## **Input Sources**

If you cannot select an input source, it is possible that no device is connected.

Check the AV cables and connections if you have tried to connect a device.

#### CI Module

If you are experiencing a problem with the CI module, it is possible that CI module is not properly inserted. Remove the CI card and then reinsert.

If the problem persists, it is possible that your CI module is not recognized. Try inserting a different CI module.

## **Appendix A: PC Input Typical Display Modes**

|       |                          | H-Freq | V-Freq |
|-------|--------------------------|--------|--------|
| Index | Resolution               | (KHz)  | (Hz)   |
| 1     | 640x350 85Hz (VESA)      | 37,9   | 85,1   |
| 2     | 640x400 85Hz (VESA)      | 37,9   | 85,1   |
| 3     | 640x400 70Hz (IBM VGA)   | 31,5   | 70,0   |
| 4     | 640x480 60Hz (VESA)      | 31,5   | 59,9   |
| 5     | 640x480 66Hz (MAC)       | 35,0   | 66,7   |
| 6     | 640x480 72Hz (VESA)      | 37,9   | 72,8   |
| 7     | 640x480 75Hz (VESA)      | 37,5   | 75,0   |
| 8     | 640x480 85Hz (VESA)      | 43,3   | 85,0   |
| 9     | 800x600 56Hz (VESA)      | 35,2   | 56,2   |
| 10    | 800x600 60Hz (VESA)      | 37,9   | 60,3   |
| 11    | 800x600 70Hz (VESA)      | 43,8   | 70,1   |
| 12    | 800x600 72Hz (VESA)      | 48,1   | 72,2   |
| 13    | 800x600 75Hz (VESA)      | 46,9   | 75,0   |
| 14    | 800x600 85Hz (VESA)      | 53,7   | 85,1   |
| 15    | 832x624 75Hz (MAC)       | 49,7   | 74,6   |
| 16    | 1024x768 43i (VESA)      | 35,5   | 43,4   |
| 17    | 1024x768 60Hz (VESA)     | 48,4   | 60,0   |
| 18    | 1024x768 70Hz (VESA)     | 56,5   | 70,0   |
| 19    | 1024x768 72Hz (VESA)     | 57,7   | 72,0   |
| 20    | 1024x768 75Hz (VESA)     | 60,0   | 75,0   |
| 21    | 1024x768 85Hz (VESA)     | 68,3   | 85,0   |
| 22    | 1152x864 60Hz (VESA)     | 53,8   | 60,1   |
| 23    | 1152x864 70Hz (VESA)     | 64,2   | 70,2   |
| 24    | 1152x864 75Hz (VESA)     | 67,5   | 75,0   |
| 25    | 1152x864 85Hz (VESA)     | 77,1   | 85,0   |
| 26    | 1152x870 75Hz (MAC)      | 68,9   | 75,1   |
| 27    | 1280x768 60Hz (VESA-GTF) | 47,7   | 60,0   |
| 28    | 1360x768 60Hz (VESA-GTF) | 47,7   | 60,0   |
| 29    | 1280x768 75Hz (VESA-GTF) | 60,2   | 75,0   |
| 30    | 1280x960 60Hz (VESA)     | 60,0   | 60,0   |
| 31    | 1280x960 75Hz (VESA)     | 75,0   | 75,0   |
| 32    | 1280x960 85Hz (VESA)     | 85,9   | 85,0   |
| 33    | 1280x1024 60Hz (VESA)    | 64,0   | 60,0   |
| 34    | 1280x1024 75Hz (VESA)    | 80,0   | 75,0   |
| 35    | 1280x1024 85Hz (VESA)    | 91,1   | 85,0   |
| 36    | 1440x900 60Hz            | 55,9   | 59,8   |
| 37    | 1440x900 75Hz            | 70,6   | 74,9   |
| 38    | 1600x1200 60Hz (VESA)    | 75,0   | 60,0   |
| 39    | 1600x1200 65Hz (VESA)    | 81,3   | 65,0   |
| 40    | 1600x1200 70Hz (VESA)    | 87,5   | 70,0   |
| 41    | 1600x1200 75Hz (VESA)    | 93,8   | 75,0   |
| 42    | 1680x1050 60Hz           | 65,3   | 59,9   |
| 43    | 1680x1050 75Hz           | 82,3   | 74,8   |
| 44    | 1920x1200 60Hz           | 74,5   | 60,0   |
| 45    | 1920x1200 65Hz           | 81,2   | 65,0   |
| 46    | 1920x1200 76Hz           | 95,0   | 76,0   |

The display has a maximum resolution of 1920 x 1200. The following table is an illustration of some of the typical video display modes.

Your TV may not support different resolutions. Supported resolution modes are listed below.

If you switch your PC to an unsupported mode, a warning OSD will appear on the screen.

Note: Your PC may not work correctly with some resolution modes which are listed above because of unexpected causes. When you confront with such a problem, please try switching your PC to different resolution modes.

## Appendix B: AV and HDMI Signal Compatibility

| SOURCE    | SUPPORTED SIGNALS |           | <b>AVAILABLE</b> |  |
|-----------|-------------------|-----------|------------------|--|
|           | PAL 50/60         | PAL 50/60 |                  |  |
| EXT-1     | NTSC 60           | NTSC 60   |                  |  |
| (SCART 1) | RGB 50            |           | 0                |  |
|           | RGB 60            |           | 0                |  |
|           | PAL 50/60         |           | 0                |  |
| EXT-2     | NTSC 60           |           | 0                |  |
| (SCART-2) | RGB 50            |           | 0                |  |
|           | RGB 60            |           | 0                |  |
| FAV       | PAL 50/60         |           | 0                |  |
| (SIDE AV) | NTSC 60           |           | 0                |  |
| S-VIDEO   | PAL 50/60         |           | 0                |  |
| 3-VIDEO   | NTSC 60           |           | 0                |  |
|           | 4801              | 60Hz      | 0                |  |
|           | 480P              | 60Hz      | 0                |  |
|           | 5761              | 50Hz      | 0                |  |
|           | 576P              | 50Hz      | 0                |  |
| YPbPr     | 720P              | 50Hz      | 0                |  |
| 11 51 1   | 720P              | 60Hz      | 0                |  |
|           | 1080I 50Hz        |           | 0                |  |
|           | 10801             | 60Hz      | 0                |  |
|           | 1080P             | 50Hz      | 0                |  |
|           | 1080P             | 60Hz      | 0                |  |
|           | 4801              | 60Hz      | 0                |  |
|           | 480P              | 60Hz      | 0                |  |
|           | 5761              | 60Hz      | 0                |  |
|           | 576P              | 60Hz      | 0                |  |
|           | 720P              | 60Hz      | 0                |  |
| HDMI      | 720P              | 50Hz      | 0                |  |
|           | 10801             | 50Hz      | 0                |  |
|           | 1080I 50Hz        |           | 0                |  |
|           | 1080P 50Hz        |           | 0                |  |

(X: Not Available, O: Available)

**Note**: In some cases a signal on the LCD TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc...) If you do expereince such a problem please contact your dealer and also the manufacturer of the source equipment.

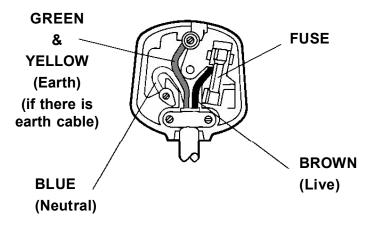
When the signal is avaliable as DVI to HDMI, that is WIDE (ZOOM) is performed. In the case of the HDMI signal, it is being fixed to "16:9".

## **Appendix C: Important Instruction**

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

## MAINS (AC) OPERATION

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



#### **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 Green and Yellow coloured wire must be connected to the terminal which is marked with the letter E, or by the earth symbol, or with Green or Green and Yellow colors.

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

The Brown or Red coloured wire must be connected to the terminal which is marked with the letter L or Red colour.

For continued protection against risk of fire, replace only with a fuse with the same type and rating. (ASTA approved 5A 250VAC fuse).

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

## **Specifications**

#### TV BROADCASTING

PAL/SECAM B/G D/K K' I/I' L/L'

#### **RECEIVING CHANNELS**

VHF (BAND I/III)

UHF (BAND U)

**HYPERBAND** 

CABLE TV (S1-S20/ S21-S41)

## NUMBER OF PRESET CHANNELS

100

#### **CHANNEL INDICATOR**

On Screen Display

#### RF AERIAL INPUT

75 Ohm (unbalanced)

#### **OPERATING VOLTAGE**

220-240V AC, 50 Hz.

#### **AUDIO**

German+Nicam Stereo

#### AUDIO OUTPUT POWER (W<sub>RMS</sub>) (10% THD)

2 x 3W

#### **POWER CONSUMPTION (W)**

65 W

< 1 W (standby)

#### **PANEL**

16:9 display, 22" Screen Size

#### DIMENSIONS (mm)

| DIMENSIONS (mm) |     |                 |     |               |
|-----------------|-----|-----------------|-----|---------------|
| D               | L   | L H Weight (kg) |     |               |
| 180             | 540 | 440             | 6.7 | With stand    |
| 90              | 540 | 400             | 6.5 | Without stand |

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.



This symbol means that electrical and electronic equipment, at their end-oflife, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre.

In the European Union there are separate collection systems for used electrical and electronic products.

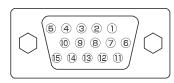
Please help us to conserve the environment we live in!

## **Pin Specifications**

## Signal Input

## PC RGB Terminal (D-sub 15-pin connector)

| Pin | Input signal                 |  |
|-----|------------------------------|--|
| 1   | R                            |  |
| 2   | G or sync on green           |  |
| 3   | В                            |  |
| 4   | No connection                |  |
| 5   | No connection                |  |
| 6   | R.GND                        |  |
| 7   | G.GND                        |  |
| 8   | B.GND                        |  |
| 9   | No connection                |  |
| 10  | GND                          |  |
| 11  | No connection                |  |
| 12  | [SDA]                        |  |
| 13  | H.sync or H/V composite sync |  |
| 14  | V.sync. [V.CLK]              |  |
| 15  | [SCL]                        |  |



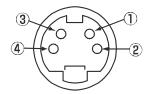
 When different kinds of input signals are simultaneously input to the monitor via a graphics board or the like, the monitor will automatically select the signals in the following priority order:

| Sync signal type    | Priority |
|---------------------|----------|
| H/V separate sync.  | 1        |
| H/V composite sync. | 2        |
| sync.on Green *     | 3        |

 Even in the case of the recommended signals shown on the following page, there may be instances when correct display is not possible. In this case, use H/V separate sync, H/V composite sync.

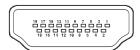
## S-input connector pin specifications

| Pin   | Input signal |  |  |
|-------|--------------|--|--|
| 1     | Υ            |  |  |
| 2     | Y-GND<br>C   |  |  |
| 3     |              |  |  |
| 4     | C-GND        |  |  |
| Frame | GND          |  |  |



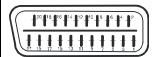
## **HDMI** connector pin specifications

| Pin | Input signal      | Pin | Input signal              |  |  |
|-----|-------------------|-----|---------------------------|--|--|
| 1   | TMDS Data2+       | 11  | TMDS Clock Shield         |  |  |
| 2   | TMDS Data2 Shield | 12  | TMDS Clock-               |  |  |
| 3   | TMDS Data 2-      | 13  | CEC                       |  |  |
| 4   | TMDS Data 1+      | 14  | Reserved (N.C. on device) |  |  |
| 5   | TMDS Data1 Shield | 15  | SCL                       |  |  |
| 6   | TMDS Data1-       | 16  | SDA                       |  |  |
| 7   | TMDS Data0+       | 17  | DDC/CED Ground            |  |  |
| 8   | TMDS Data0 Shield | 18  | +5V Power                 |  |  |
| 9   | TMDS Data0-       | 19  | Hot Plug Detect           |  |  |
| 10  | TMDS Clock+       |     |                           |  |  |



## **SCART** connector pin specifications

| Pin | Input signal              | Pin | Input signal                         |  |
|-----|---------------------------|-----|--------------------------------------|--|
| 1   | AUDIO OUT (RIGHT)         | 12  | Not used                             |  |
| 2   | AUDIO IN (RIGHT)          | 13  | RGB-R GND                            |  |
| 3   | AUDIO OUT (LEFT/MONO)     | 14  | GND                                  |  |
| 4   | AUDIO GND                 | 15  | RGB-R / S.VHS CHROMINANCE IN         |  |
| 5   | RGB-B GND                 | 16  | BLANKING SIGNAL                      |  |
| 6   | AUDIO IN (LEFT/MONO)      | 17  | COMPOSITE VIDEO GND                  |  |
| 7   | RGB-B IN                  | 18  | BLANKING SIGNAL GND                  |  |
| 8   | AUDIO / RGB SWITCH / 16:9 | 19  | COMPOSITE VIDEO OUT                  |  |
| 9   | RGB-G GND                 | 20  | COMPOSITE VIDEO / S.VHS LUMINANCE IN |  |
| 10  | Not used                  | 21  | GND / SHIELD (CHASSIS)               |  |
| 11  | RGB-G IN                  |     |                                      |  |



#### THE GUARANTEE

The seller of this equipment (the vendor) warrants to the initial retail purchaser that if the equipment becomes defective, and the defect is shown to be due to faulty materials or workmanship within a period of 12 Months from the date of sale to the original purchaser it will be repaired (or at the vendors sole option) replaced free of charge, always providing that: The equipment has at all times been used in accordance with the operating instructions issued by the manufacturer, and has not been connected to an electrical supply for which it has not been properly adjusted.

Unauthorised repairs or modifications, which have not been expressly approved by the manufacturer, shall render this guarantee null and void.

This guarantee is not transferable and is only applicable in the UK.

Nothing in this express warranty affects the statutory rights available to the purchaser of this equipment

#### **EXCLUSIONS**

SANYO shall not be liable for any removal or installation or re-installation of the equipment. The warranty does not coverFailure due to fair wear and tear of any item.

Cosmetic items, remote controls or parts and consumable items such as lamps, filters, batteries, tapes, cables or connectors. Accidental damage or damage caused by negligence or misuse by the user. Failure caused by lightning strike, storage or operation outside the specified environment, incorrect installation, lack of routine maintenance outlined in the operating instructions supplied with the unit, incorrect fitting of lamps, filters, batteries or other consumables or parts. Units not originally supplied by SANYO Europe Ltd through a UK Reseller.

Dear Customer

Thank you for buying SANYO. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for you guidance may be helpful:-

- PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING WARRANTY.
- 2: If your SANYO equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in guarantee service repairs on our behalf. In this way, we hope to reduce to a minimum the amount of time you will be without your equipment.
- 3: If for some reason it is impossible to return the equipment to the original supplier, please contact our Customer Relations Department at the address below for further advice.
- 4: Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair.

Customer Relations Department, SANYO Europe Ltd. SANYO House, 18, COLONIAL WAY, Watford, Hertfordshire, WD24 4PT. Tel: 01923 246363

## **Manufacturer and Address**

SANYO Electric Co., Ltd. 5-5, Keihan-hondori, 2-chome, Moriguchi City, Osaka, Japan

#### **Authorized Representative and Address**

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