

# Panasonic®

Operating Instructions  
Digital LCD TV

**TX-32LXD60**

**TX-26LXD60**

**TX-23LXD60**

# VIERA



**HD**  
ready

**HDMI™**  
HIGH DEFINITION MULTIMEDIA INTERFACE

**DVB**  
Digital Video  
Broadcasting

**OWNER I.D.**

**Q-Link**

Please read these instructions before operating your set and retain them for future reference.

(U.K. Standard)



TQB0E0233-1

# WELCOME

Dear Panasonic Customer,

Welcome to the Panasonic family of customers.

We hope that you have many years of enjoyment from your new digital LCD television. This is a very advanced television; however, the Quick Start Guide will allow you to use the TV as quickly as possible. You can then read the instructions completely and retain them for future reference.

## Analogue and Digital television – what are they?

Analogue transmission is the system that has been used for many years for broadcasting television programmes. With continuous improvements in technology it is now possible to transmit programmes in a digital format, allowing clearer pictures, more stations and other services to be displayed on screen. Digital television is provided in three different ways; it can be sent along a cable connection direct to your house, broadcast from a satellite, or broadcast using traditional land based (terrestrial) transmitters. The first two options require you to have an extra 'set top box' decoder and in the case of satellite, a receiving dish mounted outdoors. While allowing you to receive traditional analogue transmissions in the usual way, this television can also receive terrestrial digital services using an integrated **DVB** (Digital Video Broadcasting) decoder. This allows you to enjoy the new era of digital terrestrial television, including future interactive services, without the need for a 'set top box' or satellite dish – your current roof or loft mounted antenna is all you need.

DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).

## CONTENTS



<b>Warnings and Precautions</b> .....	<b>3</b>	<b>DVB Setup Menu Overview (DVB) Mode</b> ...	<b>30</b>
<b>Accessories</b> .....	<b>4</b>	<b>Timer Programming Menu (DVB Mode)</b> ...	<b>31</b>
<b>Installation</b> .....	<b>5</b>	<b>Profile Edit Menu (DVB mode)</b> .....	<b>33</b>
<b>Maintenance</b> .....	<b>5</b>	<b>Child Lock Menu (DVB mode)</b> .....	<b>34</b>
<b>Basic Controls</b> .....	<b>6</b>	<b>DVB Tuning Menu (DVB mode)</b> .....	<b>35</b>
<b>Quick Start Guide</b> .....	<b>7</b>	<b>DVB System Setup (DVB mode)</b> .....	<b>36</b>
<b>Analogue Programme Guide</b> .....	<b>11</b>	<b>Common Interface Module</b> .....	<b>37</b>
<b>DVB Programme Guide (EPG)</b> .....	<b>12</b>	<b>System Update Menu (DVB mode)</b> .....	<b>38</b>
<b>Aspect Controls</b> .....	<b>14</b>	<b>Q-Link</b> .....	<b>39</b>
<b>Using On Screen Displays</b> .....	<b>17</b>	<b>VCR/DVD/R Operation</b> .....	<b>40</b>
<b>Picture Menu</b> .....	<b>18</b>	<b>Teletext Operation</b> .....	<b>41</b>
<b>Sound Menu</b> .....	<b>19</b>	<b>Connections (AV)</b> .....	<b>44</b>
<b>Setup Menu</b> .....	<b>20</b>	<b>HDMI Functions</b> .....	<b>46</b>
<b>Tuning Menu - (Analogue mode)</b> .....	<b>21</b>	<b>Connections (HDMI)</b> .....	<b>47</b>
<b>Tuning Menu - Programme Edit</b> .....	<b>22</b>	<b>Troubleshooting</b> .....	<b>49</b>
<b>Tuning Menu-Auto setup</b>		<b>DVB Troubleshooting</b> .....	<b>50</b>
<b>(Analogue Mode).</b> .....	<b>25</b>	<b>Frequently asked Questions</b> .....	<b>51</b>
<b>Tuning Menu-Manual tuning</b>		<b>On Screen Messages</b> .....	<b>52</b>
<b>(Analogue mode)</b> .....	<b>26</b>	<b>For your guidance</b> .....	<b>54</b>
<b>Setup Menu Owner I.D.</b> .....	<b>28</b>	<b>Specifications</b> .....	<b>54</b>
<b>Setup Menu Shipping Condition</b> .....	<b>29</b>		

## WARNINGS AND PRECAUTIONS

- This TV set is designed to operate on 220–240V, 50Hz A.C.
- To prevent damage which might result in electric shock or fire, do not expose this LCD television to rain or excessive moisture.  
This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.
- **WARNING : HIGH VOLTAGE !!!**  
Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.
- Avoid exposing the TV set to direct sunlight and other sources of heat e.g. lit candles.
- Ensure that the mains plug is easily accessible.
- Never push objects of any kind into this LCD TV through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions (mounting bracket is not supplied).
- The On/Off switch on this model does not fully disconnect the TV from the mains supply. Remove the mains plug from the wall socket when the TV set is not used for a prolonged period of time.
- **CABINET AND LCD PANEL CARE**  
Remove the mains plug from the wall socket. The cabinet and LCD panel can be cleaned with a soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum.
- Adequate ventilation is essential to prevent failure of electrical components, we recommend that a gap of at least 10 cm is left all around this LCD television even when it is placed inside a cabinet or between shelves.
- When ambient temperature is cool, the picture may take a short time to reach normal brightness, but this is not a malfunction. (After brief moment, the picture will have normal brightness.)
- Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.
- **TV GAMES / HOME COMPUTERS**  
Extended use of TV games or home computers with any television set can cause a permanent 'shadow' on the screen. This type of irreversible LCD panel damage, can be limited by observing the following points:
  - Reduce the brightness and contrast levels to a minimum viewing level.
  - Do not operate the television set for a continuous period of time while using TV games or home computers.
  - Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the LCD TV screen.
  - Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.
  - This type of LCD panel damage is not an operating defect, and as such is not covered by the Panasonic warranty.

### FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a fitted three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. If the fuse is replaced then the replacement fuse must be 5 amp rated and should be approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the fitted plug has a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. Replacement fuse covers can be purchased through your local Panasonic dealer.

**The plug fitted to this appliance incorporates a mains filter circuit. If this is removed or replaced with a non-filtered plug this television will no longer meet the European standards for Electromagnetic Compatibility (EMC). If the fitted plug is unsuitable for the socket outlet in your home an appropriate adapter should be used.**

**Nonetheless, if the fitted plug is replaced, the fuse should be taken out and the cut-off plug disposed of safely. There is danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.**

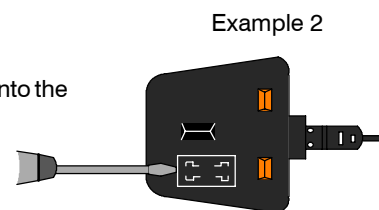
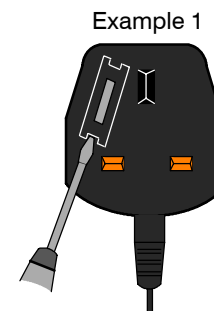
If a new plug is to be fitted please observe the wiring code as shown below. If in any doubt please consult a qualified electrician.

#### How to replace the fuse (for plug type shown in example 1) :

Lift out the removable fuse compartment with a screwdriver and replace the fuse, then refit securely into the mains plug (see example 1).

#### How to replace the fuse (for plug type shown in example 2) :

Lift open the fuse compartment, in the mains plug, with a screwdriver, and replace the fuse, then press the fuse cover down securely (see example 2).




**IMPORTANT :-** The wires in the mains lead of this appliance are coloured in accordance with the following code :-

BLUE : NEUTRAL

BROWN : LIVE

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

1. The **BLUE** wire must be connected to the terminal marked 'N' or coloured black.
2. The **BROWN** wire must be connected to the terminal marked 'L' or coloured red.

**IMPORTANT NOTE :** Under no circumstances should either of these wires be connected to the Earth terminal of the three pin plug, marked with the letter 'E' or the earth symbol. 

# ACCESSORIES

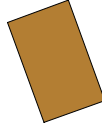
Check that you have the accessories and items shown



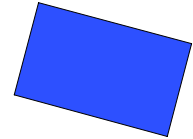
Operating Instruction book



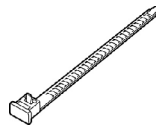
Customer Survey



1 Year Guarantee Registration



Clamper  
(TX-26LXD60,  
TX-32LXD60 only)



Remote Control Transmitter  
(EUR 7651050A)



Pan European Guarantee Card



Batteries for the Remote Control  
Transmitter. (2 x R6 (UM3) size)



## Remote control batteries

1



Pull and hold the hook, then open the battery cover

2



Insert batteries - note correct polarity (+ and -)

3



Replace the cover

- Make sure that the batteries are fitted the correct way round.
- Do not mix old batteries with new batteries. Remove old, exhausted batteries immediately.
- Do not mix different battery types, i.e. Alkaline and Manganese or use rechargeable (Ni-Cd, Ni-MH) batteries.

# INSTALLATION

Please use the apparatus only with the stands supplied or with the appropriate wall mount kits.

## Receiver Location

Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

Use of some types of fluorescent lighting can reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

## Optional External Equipment

The Video/Audio connection between components can be made with shielded video and audio cables. For best performance, Antenna cables should utilize 75 Ohm coaxial shielded wire. Cables are available from your dealer or electronic supply store.

Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

## For optimum quality picture

When the LCD is exposed to light from outdoors or lighting fixtures, high-contrast pictures may not be displayed clearly. Turn off fluorescent lamps near the LCD and place in location not exposed to outdoor light.

## How to use the LCD stand

Adjust the stand to your desired angle. The stand angle can be adjusted in the following directions:

TX-32/26/23LXD60

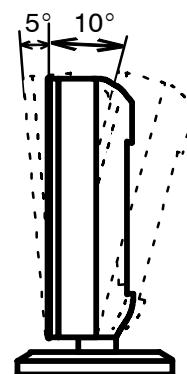
20° Right  
20° Left



20°

TX-23LXD60 only

5° Forward  
10° Backward  
20° Right  
20° Left



# MAINTENANCE

To clean this unit, wipe with a soft, dry cloth.

If the surfaces are extremely dirty, use a soft cloth dipped in a soap and water solution or a weak detergent solution.

- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzine to clean this set.
- Before using a chemically treated cloth, carefully read the instructions that came with the cloth.
- Do not wipe the LCD with water.

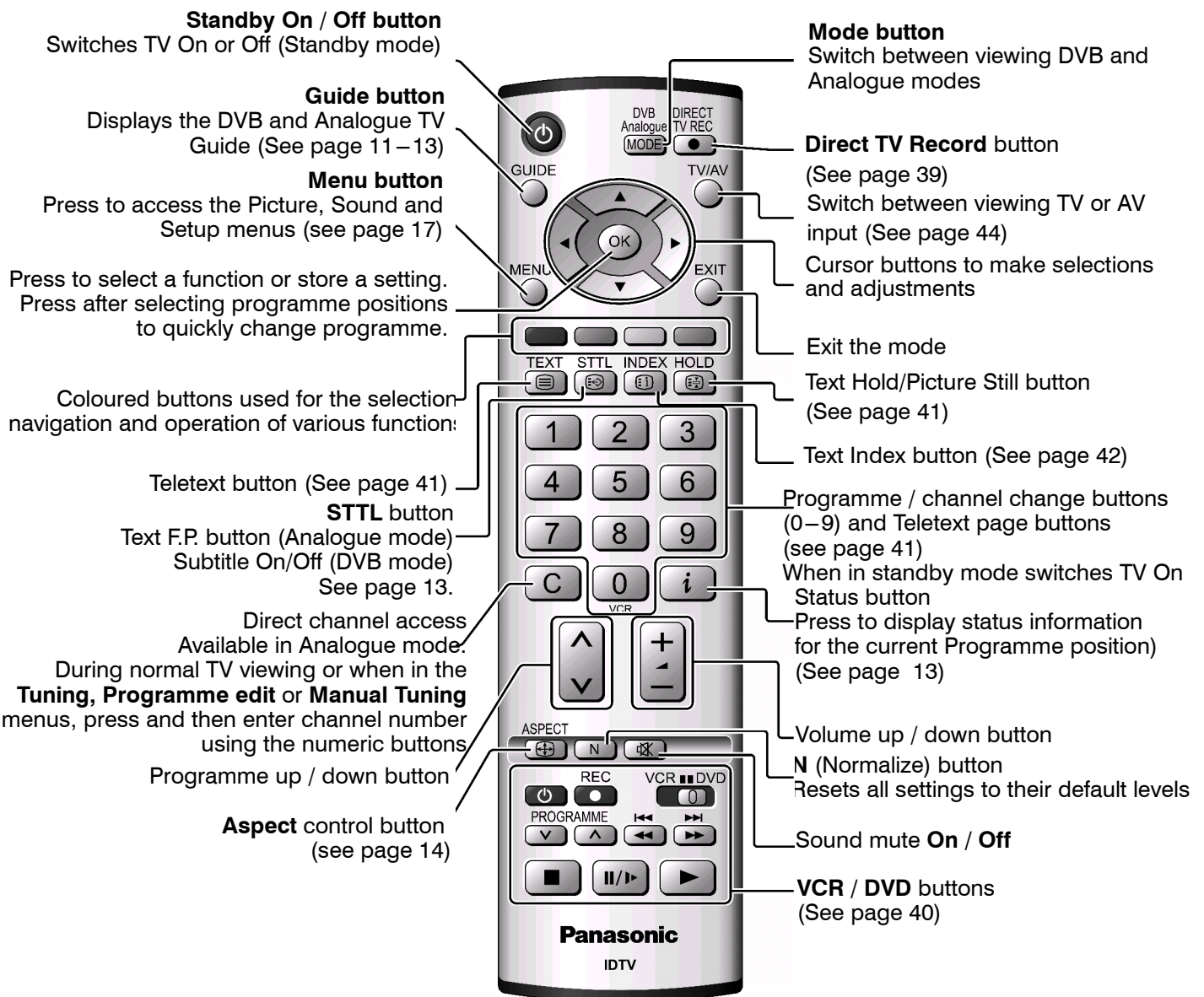
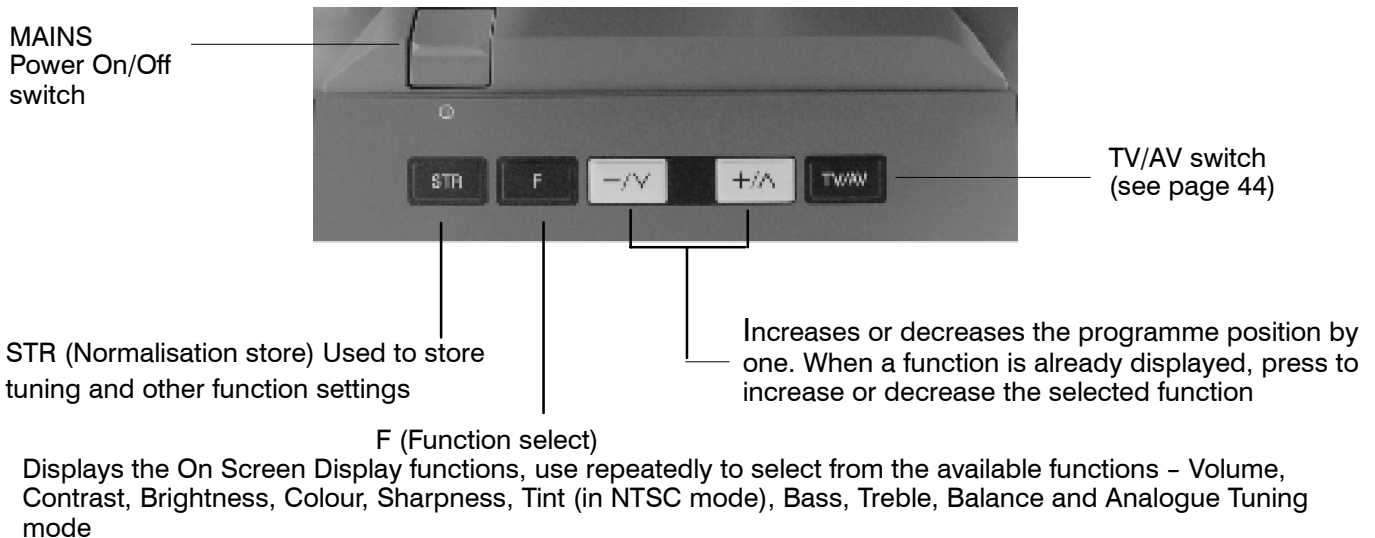


Wipe the cabinet with a soft cloth.

If the cabinet is heavily soiled, wipe with a well-wrung soft cloth dipped in kitchen cleanser (neutral) diluted with water.

**CAUTION:** If water or similar substances get inside the monitor via the liquid crystal panel surface, a malfunction may result.

# BASIC CONTROLS: TOP PANEL AND REMOTE CONTROL



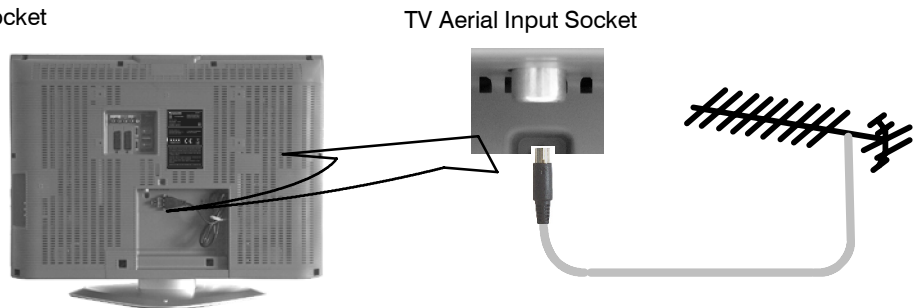
# QUICK START GUIDE

## Connection and setting up options

1. If connecting the TV using an RF cable only, proceed to option 1.
2. If connecting the TV using SCART and RF cables, proceed to option 2.

### 1 Connection of TV using an RF cable only

Connect the RF cable into the TV Aerial socket



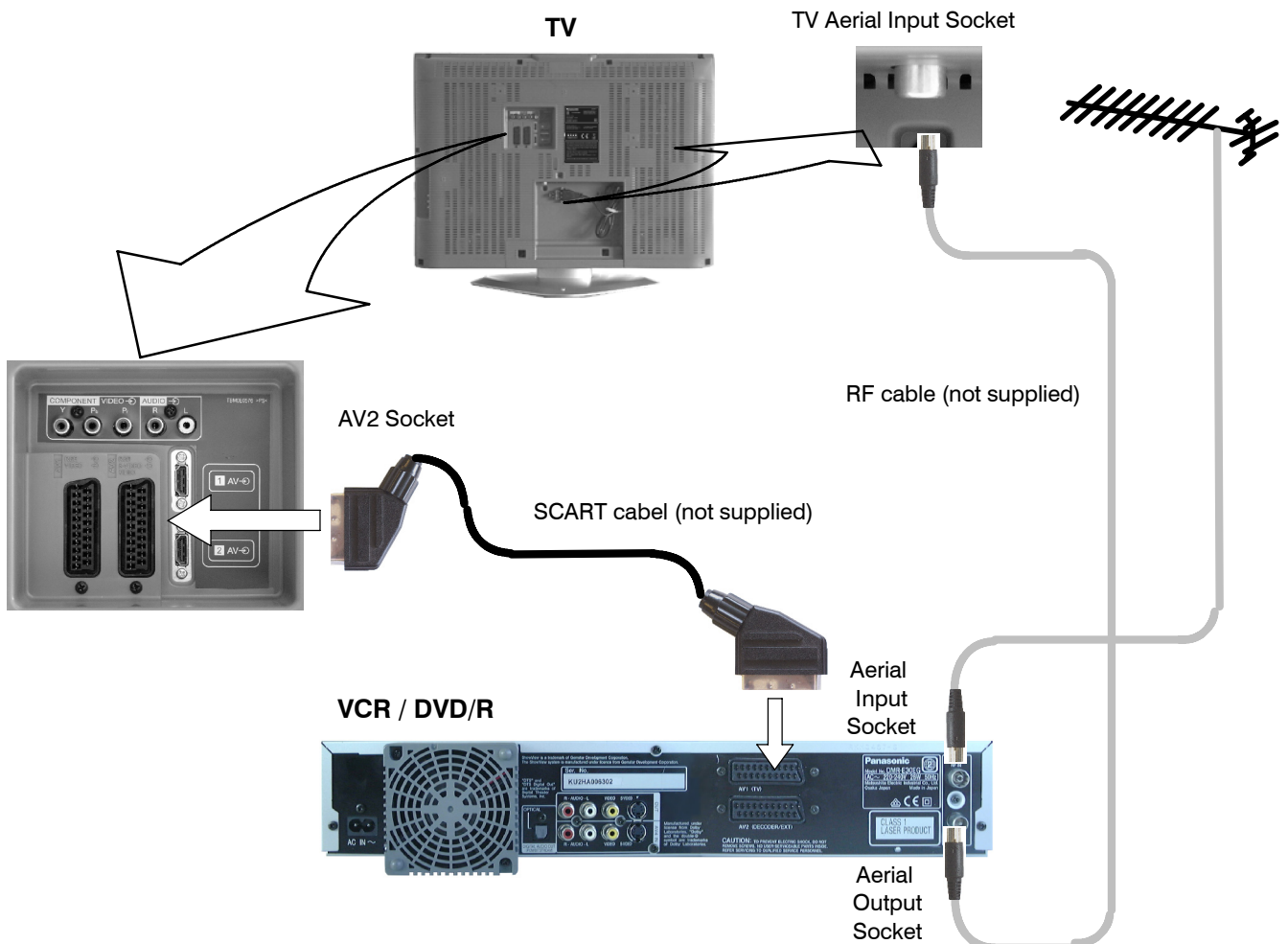
### 2 Connection of TV and VCR (DVD/R) using SCART and RF cables

#### SCART connections

The VCR (DVD/R) can be connected to the TV using a SCART cable if you are using a SCART equipped VCR (DVD/R). Use the AV2 SCART socket of the TV for a VCR (DVD/R)

#### RF connections

Connect the RF cable to the Aerial In socket of the VCR (DVD/R) and an RF cable from the VCR (DVD/R) Aerial out socket to the TV Aerial socket



#### NOTES:

Additional equipment and cables are not supplied  
Further details of Audio/Video connections can be found on pages 44–45.

# QUICK START GUIDE

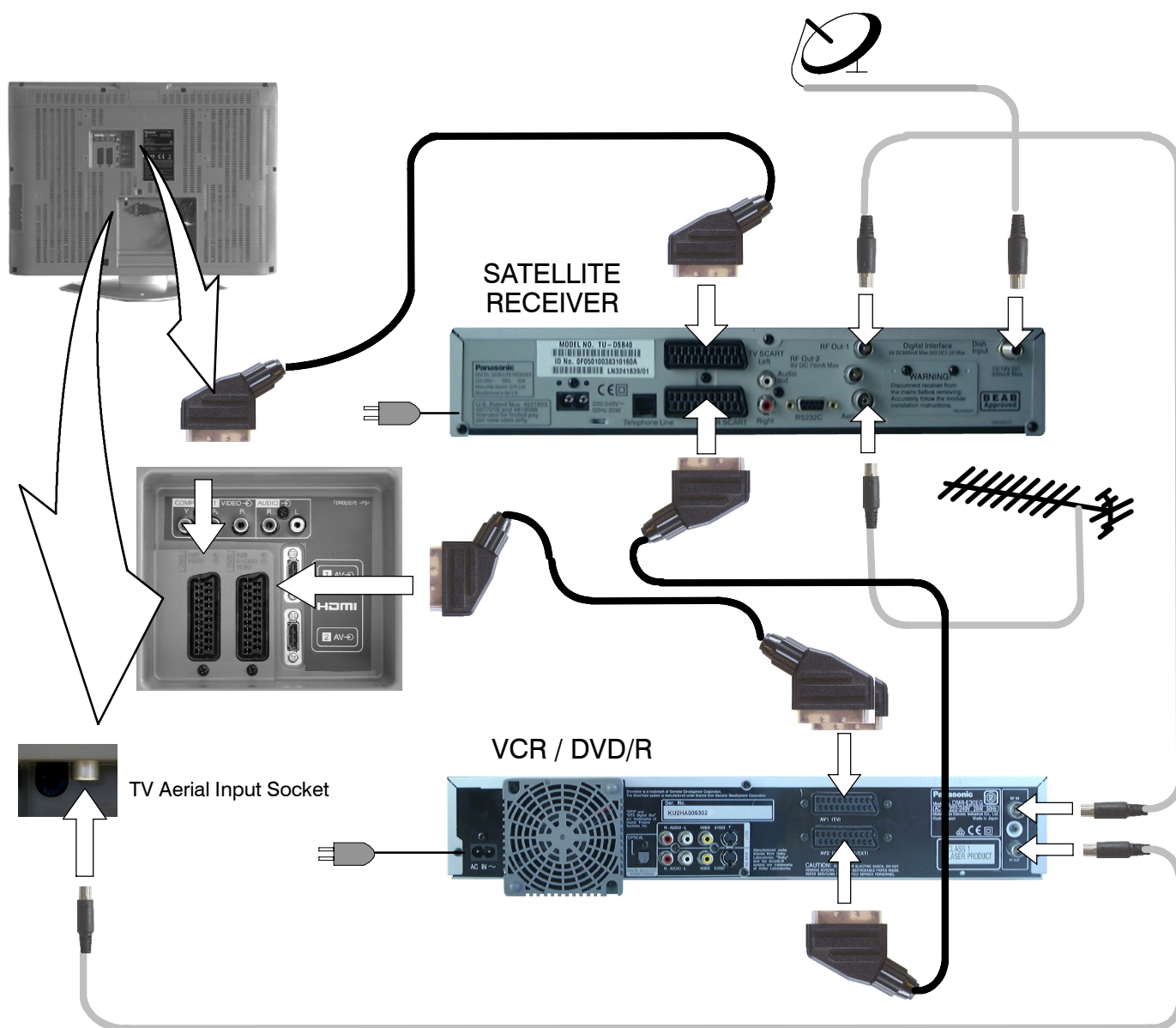
## 3 Connection of TV, VCR (DVD/R) and Satellite Receiver using SCART and RF cables

### Scart Connections

- Fully wired SCART cables should be used for all the SCART connections.
- The AV2 SCART of the VCR (DVD/R) must be connected to the VCR socket of the Satellite Receiver
- The TV SCART socket of the Satellite Receiver must be connected to the AV1 SCART socket of the TV.

### RF Connections

- Connect an RF cable to the Aerial In socket of the Satellite Receiver.
- Connect an RF cable from the RF Out socket of the Satellite Receiver to the RF In socket
- Connect an RF cable from the RF Out socket of the VCR (DVD/R) to the TV Aerial In socket



### NOTES:

Additional equipment and cables are not supplied  
Further details of Audio/Video connections can be found on pages 44–45.

# QUICK START GUIDE

4

Programmes will appear immediately if your dealer has programmed the TV for you.

If the TV has not been programmed for you then Auto setup will begin.

The TV will search for DVB stations and Analogue stations: TV stations will be located, sorted into order and stored ready for use. Stations are sorted into the following order:

- **DVB Stations:** Are sorted by their logical channel number sent by the broadcasters, which can be grouped into a favourite channels list by using Profile Edit. See page 33.

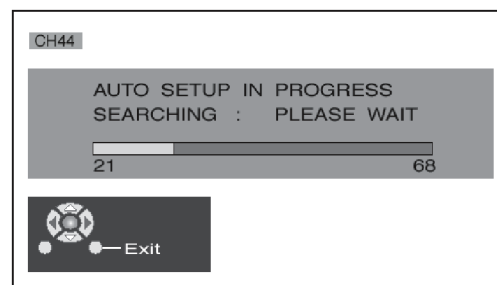
- **Analogue Stations:** Are sorted into channel order, but can be changed to your preference. See page 22.

The sorted programme order depends upon the TV signal, the broadcasting system, and reception conditions.

DVB Auto Setup  
Please Wait ! 21 68

Prog.	Channel	Service Name	NetID.	TS ID.	Quality
4	30	BBC NEWS 24	12302	4158	9
5	30	BBCI	12302	4158	9
6	30	CBBC Channel	12302	4158	9
7	30	BBC Radio Wales	12302	4158	9
8	30	BBC Radio Cymru	12302	4158	9

This will take about 3 mins.



5

## TV to VCR or DVD Recorder Download

If a “Q–Link”, “NEXTVIEWLINK” or compatible recording device has been connected to a Scart terminal (AV1/AV2) before starting Step 1, programme information will be downloaded to that device. Only the analogue programme positions will be downloaded to the recording device, in the same order as stored in the TV. See page 24.

Not all VCRs / DVD Recorders support this download of programme information, some may require to be started manually.

Refer to the recording device’s operating instruction book.

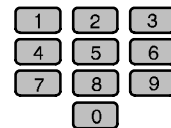
If a recording device other than those described above has been connected, then there will be no download operation.

- If the VCR (DVD/R) has not accepted download data from the TV, you may need to select the Download option from the VCR (DVD/R)’s menu.
- If Q–Link is not operating correctly, check it is connected to the television’s AV1 or AV2 socket, the SCART lead is a “full function” type, and the VCR (DVD/R) is compatible with Q–Link, NEXTVIEWLINK or similar technologies. Ask your dealer for further details.
- For further information on Q–Link and connecting equipment, see pages 39 and 44.

## QUICK START GUIDE

### 6 Owner ID

As an added feature, this TV has the option of adding a security code (Owner ID) and personal details into its memory, so that in the unfortunate event of theft it will help the Police to trace the owner.



Using the numeric buttons, 0 to 9 on your remote control, enter your own 4 digit Owner ID **PIN NUMBER**.

If a 4 digit **PIN NUMBER** was entered above, you will be taken automatically to the **NAME** line.

If not, using the left or right cursor buttons move to the **NAME** line.

Change character using the up or down cursor buttons.

Select the character position using the left or right cursor buttons.

Repeat above until **NAME**, **HOUSE NUMBER** and **POSTCODE** are entered.

Press the **OK** button to store the details.

Press the **OK** button again, when you are asked "Are you sure?".



For further information on Owner I.D., see page 28.

### 7

Auto Setup is now complete

You are now ready to begin viewing programmes

The cursor controls provide the two basic functions:

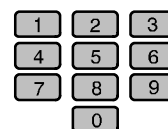


Adjust Volume



Change Channel

Channels can be selected directly using numeric key pad on the remote control



Access to channels can also be gained using the guide button. (See pages 11 and 12)

GUIDE



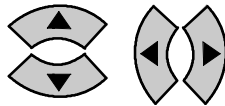
# ANALOGUE PROGRAMME GUIDE

The analogue programme guide shows programme list.

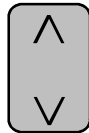
To view a list of the stations that have been found, press the GUIDE button on the remote control



In this guide, use the cursor buttons to move the cursor bar around the list



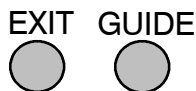
Use the programme change button to step through the guide page by page



Press the OK button to view the selected programme



The Guide can be cleared from the screen using the EXIT or GUIDE button.



Analogue Programme Guide					
Prog.	Name	Chan.	Prog.	Name	Chan.
VCR :		CH21	13 :		-
1 :	BBC1	CH44	14 :		-
2 :	BBC2	CH51	15 :		-
3 :	ITV	CH41	16 :		-
4 :	S4C	CH47	17 :		-
5 :		CH23	18 :		-
6 :		CH26	19 :		-
7 :		CH58	20 :		-
8 :		-	21 :		-
9 :		-	22 :		-
10 :		-	23 :		-
11 :		-	24 :		-
12 :		-			



# TV Guide – Electronic Programme Guide (EPG) (DVB mode)

The DVB TV Guide displays the current programmes being transmitted, and forthcoming programmes on each DVB channel, up to about one week ahead (If broadcasters transmit the programmes information).

Press the **GUIDE** button.

Choose from Landscape or Portrait display style by pressing the **GUIDE** button repeatedly.

Press the **Red** button to move the EPG listing to the previous day.

Press the **Green** button to move the EPG listing to next day.

Press the **Yellow** button to view a list of Categories.

You can create a favourites list can be customised using the Profile Edit menu (see page 27).

Press the **Blue** button to view a list of Prog. type.

EPG listing can be set to display by Category or Programme Type.

For example press the **Yellow** button and select “Free TV”, “Radio” services or “Profile 1” by pressing the up or down cursor buttons. Press the **OK** button to view a list of the selected category.

To view any of the current DVB programmes, select it with the cursor buttons and press the **OK** button.

**GUIDE**



## Information and Timer Programming (ex. Landscape)

You can view further information about the selected programme:

Select the programme for which you require further information using the cursor buttons.

Press the **i** button to display the information.

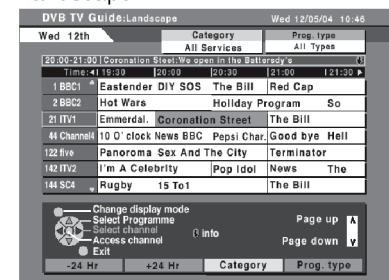
Press the **i** button again to return to the list of programmes.

When you select a future programme from the EPG listing, press the **OK** button to set timer programming for recording on a Q-Link compatible recorder. See page 31, 32, 39.

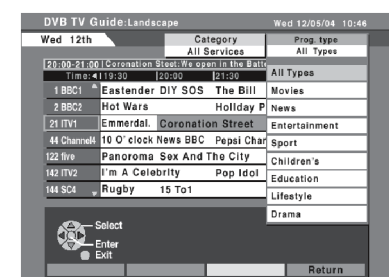
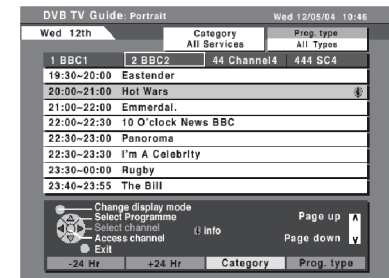
Press the **MENU** button to return to the TV Guide.

Press the **EXIT** button to exit the Guide

### Landscape



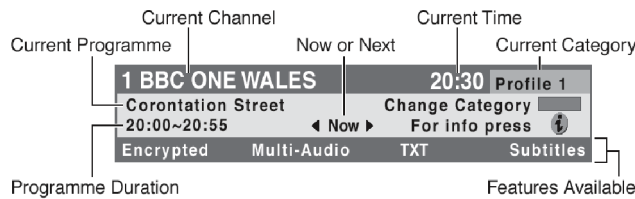
### Portrait



# TV Guide – Electronic Programme Guide (EPG) (DVB mode)

## In DVB mode

Information banner will appear when changing channel, or pressing the (Information) button. The banner gives the user information about the channel and programme currently being viewed. The banner will time out and disappear from the screen after a set time period, this time period can be set in the DVB System Setup menu. See page 30.



Press the left or right cursor button while banner is displayed to switch between **Now** and **Next**.



This switches between the information for the current Programme being shown (**Now**) and the next Programme to be shown (**Next**).

Press the up or down cursor button to step through the banner information for all channels.



Press the OK button to view a channel. Now and Next can also be used in this mode.



While the banner appears

Press the **i** button to display an extended banner showing any information available on the current selected programme.

Press the **i** button while in extended banner mode to return to normal banner view.

To clear the banner from the screen while in extended banner mode, press the **EXIT** button.



**EXIT**



### Viewing Category

Press the **Blue** button while in the banner to scroll through available categories.

For example

All Services :	All available Services
Free TV :	Free TV channels only
Pay TV:	Encrypted TV channels
Radio :	Radio channels only
Information:	Information given on individual programmes
Profile	Select one of four possible user defined profiles

Press the **EXIT** button to exit the banner at any time.



## In Analogue mode

Pressing the **i** (Information) button will display the analogue channel information for a few seconds. This will then be timed out to display just the programme position number near the top left corner of the screen.

To remove this programme position number, press the **i** (Information) button again.

## Subtitles On / Off (DVB mode)

### In DVB mode

Press the **STTL** button to switch Subtitles ON.

Subtitles will appear (if available) by the language you select in

Preferred Subtitles in DVB System Setup menu. See page 30.

Press again to switch Subtitles OFF.

Digital text is not available whilst subtitles are switched on.



## ASPECT CONTROLS

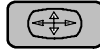
The widescreen TV will allow you to enjoy viewing the picture at its optimum size and aspect, including widescreen 'cinema format' pictures.

Press the **ASPECT** button repeatedly to move through the seven aspect options: **Auto Aspect**, **16:9**, **14:9**, **4:3**, **Zoom1**, **Zoom2** and **Zoom3**.

OR

Press the **ASPECT** button then use the **RED** or **GREEN** buttons to move in either direction through the seven aspect options.

ASPECT



### Auto Aspect

**Auto Aspect** determines the best aspect ratio to use to fill your screen. It does this using a four step process to determine if the picture being viewed is a widescreen picture.

If **Auto Aspect** detects a widescreen signal it switches into the appropriate **16:9** or **14:9** widescreen mode. If **Auto Aspect** does not detect a widescreen signal then this advanced TV set enhances the picture for optimum viewing pleasure.

The text shown on the screen indicates how **Auto Aspect** determined which ratio to use:

'WIDE' appears in the top left of the screen if a widescreen identification signal (WSS) is found or a signal found through a Scart socket.

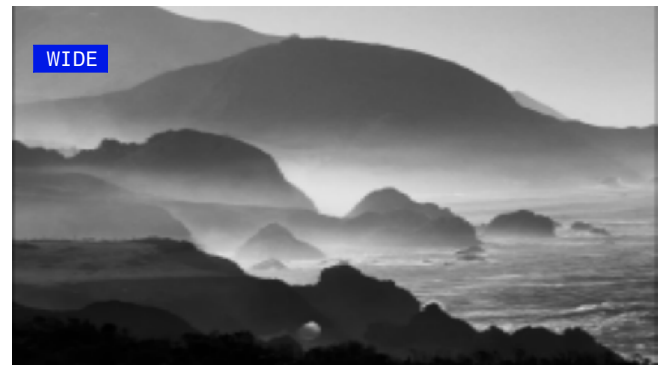
**Auto Aspect** switches to the appropriate **16:9** or **14:9** widescreen ratio

'Panasonic Auto' appears in the top left of the screen if black stripes above and below the picture are detected. **Auto Aspect** chooses the best ratio and expands the picture to fill the screen. This process can take several minutes, depending on the darkness of the picture.

You may prefer to manually select one of the other aspect options available to view the picture.

#### Notes:

- If, in Auto Aspect mode, you experience problems with the screen display size when playing back widescreen format recordings from your VCR then it is possible that the tracking control of your VCR requires adjustment (your VCR instruction book will contain adjustment details).
- The widescreen aspect ratios of different films and programmes can vary. If these are wider than a standard 16:9 aspect picture then a black band may be visible at the top and bottom of the screen.



'WIDE' appears in the top left of the screen, **Auto Aspect** switches to the appropriate 16:9 or 14:9 widescreen ratio.



'**Auto Aspect**' appears in the top left of the screen, The best ratio is chosen and the picture expanded to fill the screen.



Press the **ASPECT** button, then use the **RED** or **GREEN** buttons to move in either direction through the seven aspect options.

## ASPECT CONTROLS

### 16:9

**16:9** will display a true 16:9 (anamorphic) picture with no aspect distortions.



16:9

### 14:9

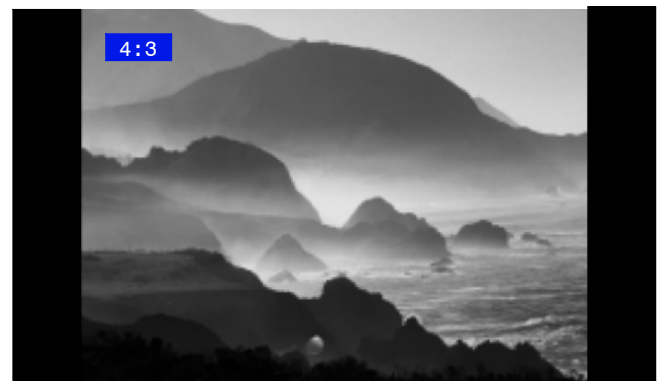
**14:9** will display a 14:9 letterbox or 4:3 picture with no aspect distortions.



14:9

### 4:3

**4:3** will display a 4:3 picture at its standard 4:3 size with no aspect distortions.

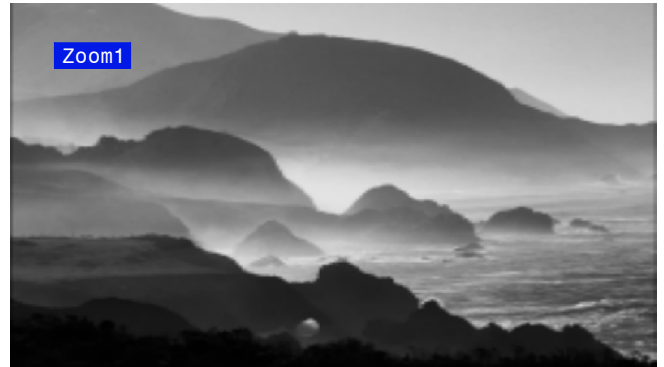


4:3

# ASPECT CONTROLS

## Zoom1

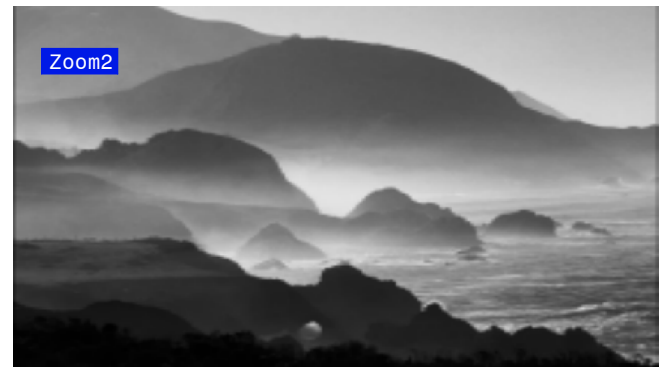
**Zoom1** will display 16:9 letterbox or 4:3 pictures with no aspect distortions



Zoom1

## Zoom2

**Zoom2** will display 16:9 anamorphic letterbox pictures as a full screen display with no aspect distortions



Zoom2

## Zoom3

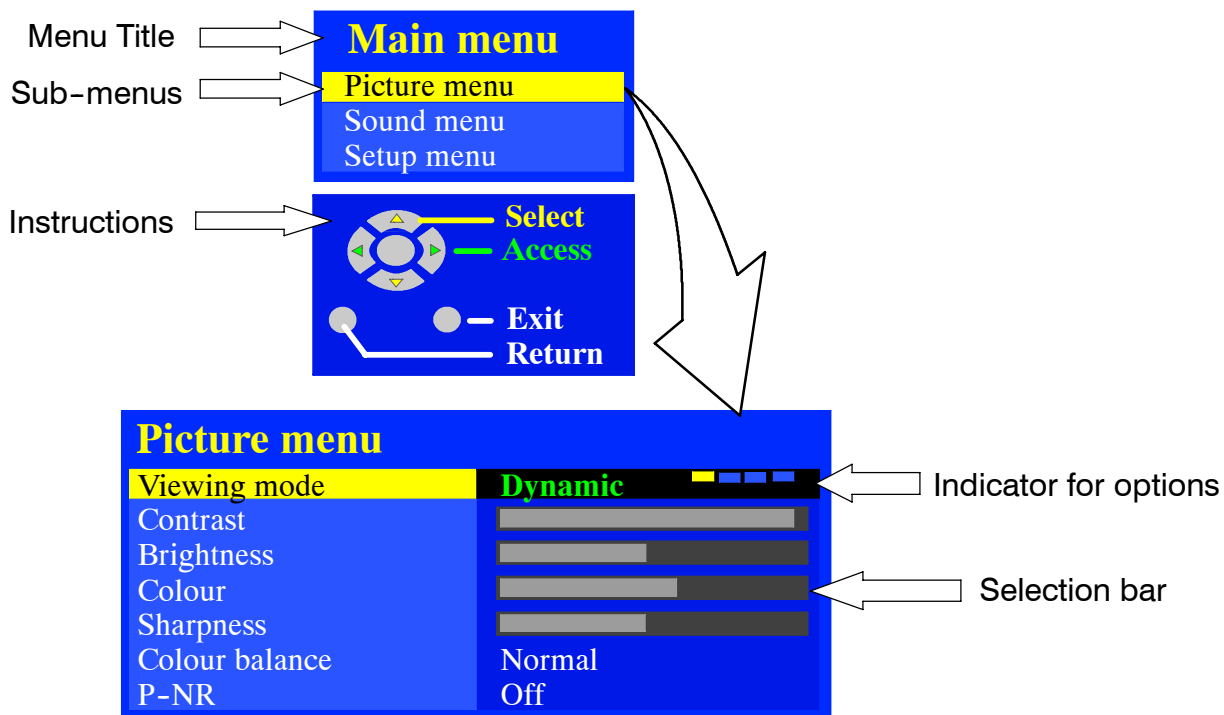
**Zoom3** will display 21:9 letterbox pictures as a full screen display with no aspect distortions



Zoom3

## USING THE ON SCREEN DISPLAYS

This TV has a comprehensive system of On Screen Display menus to access adjustments and options



Some selections, for example, **Contrast**, **Brightness**, **Colour** and **Sharpness** will allow you to increase or decrease their level.

Some selections, for example, **Off timer**, allow a choice to be made.

Some selections, for example **Tuning menu**, will lead to a further menu.

The MENU button is used to open the main menu and also to return to the previous menu.

The up and down cursor buttons are used to move the cursor up and down the menu.

The left and right cursor buttons are used to access menus, adjust levels or to select from a range of options.

The OK button is used to store and confirm tuning, OSD functions and other settings

The EXIT button is used to exit the menu system and return to the normal viewing screen.

N (Normalise) button – resets all settings to their default levels

MENU



EXIT



### Last Position Memory

Certain functions have a last position memory, i.e. the setting at the time of switch-off will be the setting used when the receiver is switched on again.

# PICTURE MENU

This menu allows you to make adjustments to the picture quality.

Open the Main menu

MENU



Move to Picture menu



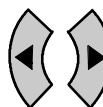
Access Picture menu



Move to your choice



Increase or decrease levels or set options



Press the EXIT button to exit the menu system

EXIT



## Viewing mode



The Viewing mode in the Picture menu allows you to select, four different screen settings – **Dynamic**, **Normal**, **Cinema** and **Auto**

In each Viewing mode setting, Contrast, Brightness, Tint (in NTSC only), Colour, and Sharpness can be adjusted and stored to suit your particular viewing requirement (for example

you may require different settings for viewing sport, films, news etc.). Viewing mode offers you up to a maximum of four separate settings.

By analysing and processing the incoming picture, all four modes feature automatic enhancement. You can restore the factory settings for the selected profile on the selected signal source by pressing the “N” button on the remote control.

- Contrast**
- Brightness**
- Colour**
- Sharpness**
- Tint (NTSC only)**

## Colour balance

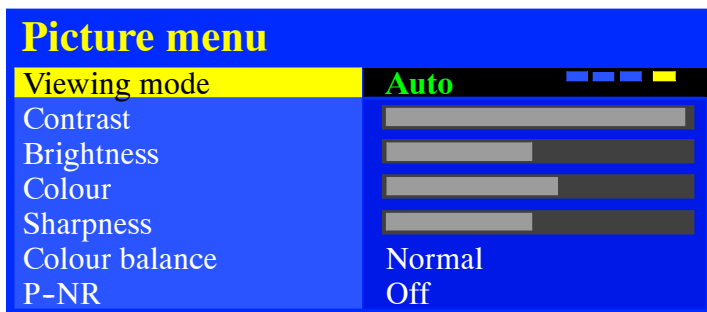
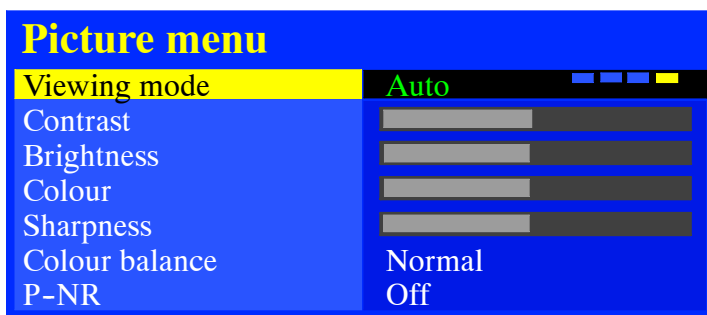
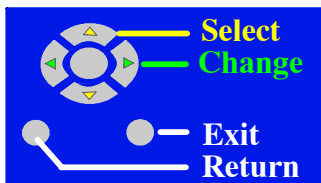
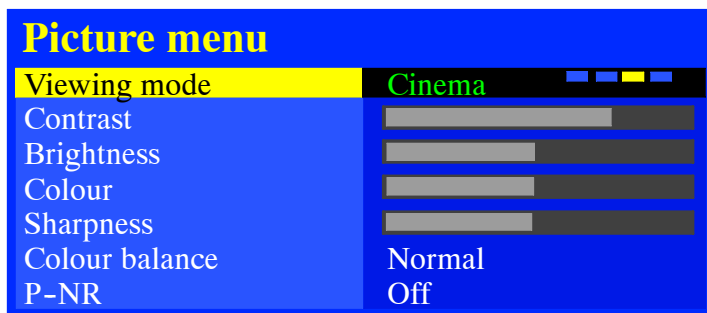


The Colour balance setting allows you to set the overall colour tone of the picture. Choose from **Cool** **Normal** and **Warm**.

## P-NR



P-NR will automatically reduce unwanted picture noise.



# SOUND MENU

The Sound menu will allow you to set your personal preferences for all aspects of sound quality.

Open the Main menu

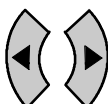
MENU



Move to Sound menu



Access Sound menu



Move to your choice

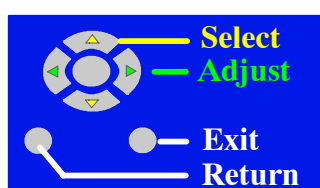
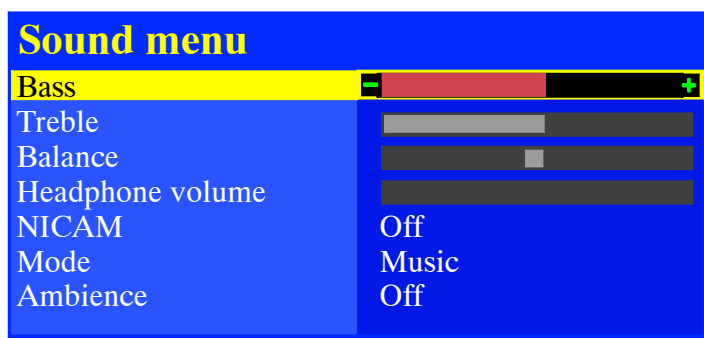


Increase or decrease levels or set options



Press the EXIT button to exit the menu system

EXIT



## Bass

Bass adjustment will emphasise the lower, deeper frequencies and can be increased or decreased.

## Treble

Treble adjustment will emphasise the sharper, higher frequencies and can be increased or decreased.

## Balance

Balance affects the levels of sound between the left and right speakers. Adjustment can be made so that the level from the speakers will suit your listening position.

## Headphone volume

Can be adjusted independantly of the TV speakers so that everyone can enjoy listening at a level comfortable for them.

## NICAM



(Not available with DVB programmes).

Select **On** to provide stereo sound reproduction. Select **Off** for FM Mono sound output. If reception deteriorates it may help to switch Nicam to **Off**.

## Mode



The sound can be improved during Music or Speech mode by selecting the appropriate function.

## Ambience



Ambience provides a dynamic enhancer to simulate improved spatial effects.

## HDMI1 input



Displayed during **HDMI1** input mode.

Allows you to choose from Auto, Digital and Analogue

Select to fit the input signal

**Auto** :Set in normal use

**Digital** HDMI cable connection







**Analogue** HDMI–DVI adaptor cable connection (Connecting Audio RCA inputs)

- Not available for HDMI2, HDMI1 input mode only.

- HDMI2 terminal is for digital Audio signal only.

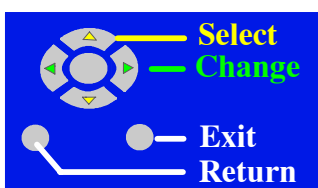
# SETUP MENU

The Setup menu provides access to various advanced features and also to the Tuning menu.

- Open the Main menu 
- Move to Setup menu 
- Access Setup menu 
- Move to your choice 
- Increase or decrease levels, set options or access further menus 
- Press the EXIT button to exit the menu system 

## DVB mode

Setup menu	
Q-Link	AV1
Control with HDMI	On
AV1 out	Monitor
<b>AV2 out</b>	<b>DVB</b>
Off timer	Off
Power on preference	AV
DVB Setup Menu	
Owner ID	
Shipping condition	



### Q-Link



Q-Link allows you to enable AV1 or AV2 See page 39

### Control with HDMI

HDMI control allows for the external equipment (e.g. DVD) and television to communicate via a digital connection Choose from Off or On.

### AV1 out



Offers a choice of signals to send to the AV1 Scart socket. You can choose from the current TV (**Analogue, DVB**) programme position, the signal entering **AV2 / AV3** or **Monitor** – the picture displayed on screen.

### AV2 out



Offers a choice of signals to send to the AV2 Scart socket. You can choose from the current TV (**Analogue, DVB**) programme position, the signal entering **AV1 / AV3** or **Monitor** – the picture displayed on screen.

### Teletext (Analogue only)



The Teletext option allows you to choose between **Fasttext** or **List mode**. See page 41.

### Off timer



Off timer will switch the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.

### Power on preference



Set to TV to view picture from TV tuner. Set to AV to view input from external equipment connected to a Scart socket e.g. satellite receiver

**Note:** The external equipment must be switched on and sending a control signal for automatic switching at power on to occur

### Tuning Menu

(Analogue only)

Provides access to many other features including Programme Edit and Auto Setup

### DVB Setup Menu

Provides access to setup the DVB operations. (See page 30)

### Owner ID

Allows you to enter a security code and address information (See page 28)

### Shipping condition




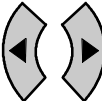
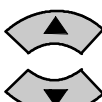


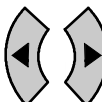





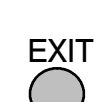

Allows you to clear all tuning information and reset all control levels back to factory settings (See page 29)

### Volume correc. (AV mode only)

During AV mode, Volume correction is displayed. You can adjust volume level of AV mode. Volume level is memorised.

## TUNING MENU – (Analogue mode)

The Tuning menu provides access to manual, automatic and fine tuning menus.

Open the Main menu	MENU 	
Move to Setup menu	 	<b>5</b> <b>CH44</b>
Access Setup menu	 	<b>Tuning menu</b> Programme edit <b>Access</b> Auto setup Manual tuning
Move to Tuning menu	 	
Access Tuning menu	 	 Select Access Store Exit Return
Move to your choice	 	
Increase or decrease levels, set options or access further menus	 	
Press the EXIT button to exit the menu system	EXIT 	

### Programme edit

Accessing the Programme edit menu will allow stations to be moved, added, deleted, named or locked and provides access to the TV -system. See page 22.

### Auto setup

The Auto setup menu allows you to automatically retune the TV. See page 25.

### Manual tuning

The Manual tuning menu allows individual programme positions to be tuned manually. See page 26.

# TUNING MENU - PROGRAMME EDIT

The Programme edit menu allows you to edit the programme position settings.

Open the Main menu

MENU



5

CH44

Move to Setup menu



Access Setup menu



Move to Tuning menu



Access Tuning menu



Move to Programme edit menu



Prog.	Chan.	Name	Lock
1:	CH41	XYZ	Off
2:	-		Off
3:	-		Off
4:	-		Off
5:	-		Off

Access Programme edit menu



Make required changes  
(see sections below)

Press OK button to store changes



If you have finished in the Programme edit menu, press the EXIT button to exit



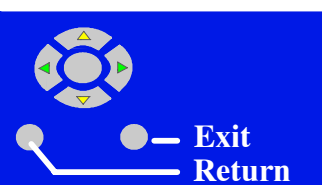
## To delete an unwanted programme position

Choose the programme position



Prog.	Chan.	Name	Lock
1:	CH41	XYZ	Off
2:	-		Off
3:	-		Off
4:	-		Off
5:	-		Off

Press the Red button on remote control



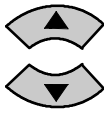
Press the Red button again to confirm



# TUNING MENU - PROGRAMME EDIT

## To add a programme position

Choose the programme position where the new programme is to be inserted



Press the Green button



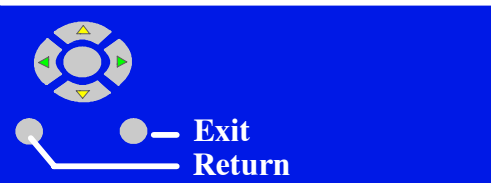
Press the Green button again to confirm



This blank programme can then be tuned, named, locked and be allocated your choice of TV-system

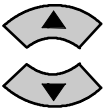
## Programme edit

Prog.	Chan.	Name	Lock
1:	CH41	XYZ	Off
2:	-		Off
3:	-		Off
4:	-		Off
5:	-		Off



## To move a programme to another position

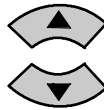
Choose the programme position to be moved



Press the Yellow button on remote control



Choose new position

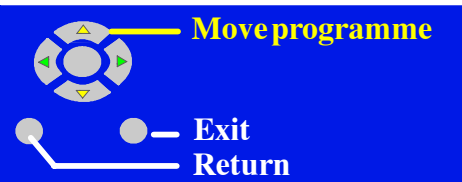


Press the Yellow button again to confirm



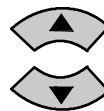
## Programme edit

Prog.	Chan.	Name	Lock
1:	CH41	XYZ	Off
2:	-		Off
3:	-		Off
4:	-		Off
5:	-		Off

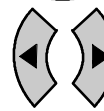


## To rename a programme position

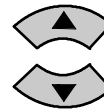
Choose the programme position



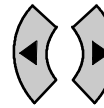
Move to the Name column



Choose the new character



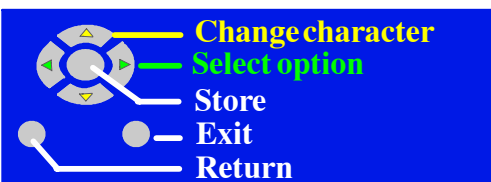
Move to the next character position



Continue until renaming is done

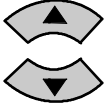

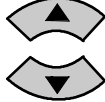
## Programme edit

Prog.	Chan.	Name	Lock
1:	CH41	XYZ	Off
2:	-		Off
3:	-		Off
4:	-		Off
5:	-		Off



# TUNING MENU - PROGRAMME EDIT



## To lock a programme position to prevent access

- Choose the programme position 
- Move to the lock column 
- Choose between lock on or lock off 

Programme edit			
Prog.	Chan.	Name	Lock
1:	CH41	XYZ	Off
2:	-		Off
3:	-		Off
4:	-		Off
5:	-		Off



## To copy programme information to a compatible VCR (DVD/R) connected to AV1 or AV2

- Move to the Prog. column 
- Press the Blue button on the remote control 

Programme data will now be sent to the VCR (DVD/R). This might take a few seconds, depending on the number of stations stored.

**Note:**

If the message “Q–Link? Feature not available” appears on the screen, the television is unable to send the programme information to the VCR (DVD/R). See the VCR (DVD/R) handbook for further information.

- check Q–Link (AV1 or AV2)
- check your VCR (DVD/R)”

DOWNLOAD IN PROGRESS  
 PLEASE WAIT  
 Programme : 48  
 Remote control unavailable

# TUNING MENU - AUTO SETUP (Analogue mode)

The Auto setup menu will allow you to automatically retune the TV to your local stations. It is useful if you move to a different region.

## In Analogue mode

Open the Main menu

MENU



Move to Setup menu



Access Setup menu



Move to Tuning menu



Access Tuning menu



Move to Auto setup



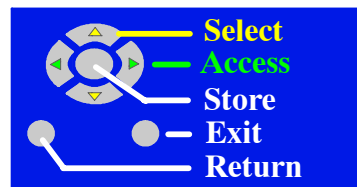
Access Auto setup



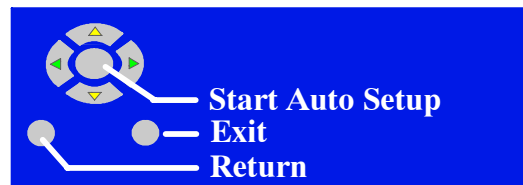
Press to start Auto setup



5  
CH44



**WARNING**  
All current tuning data will be  
erased



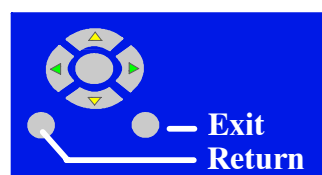
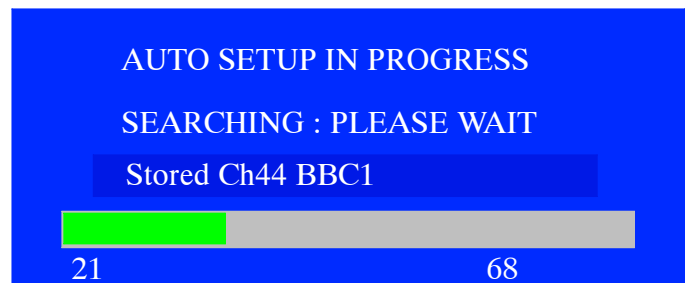
## Notes:

- If you proceed with the next step analogue tuning data will be erased (all stations and their programme positions stored in your TV's memory will be wiped out so the new settings can be stored).
- If you exit the procedure after this point and before Auto setup is complete, no station information will be stored. Restart and complete the Auto setup procedure so that the TV is retuned.

The TV will search for, locate and sort into order your local stations.

Once this operation is completed the TV will display programme position 1




















CH41



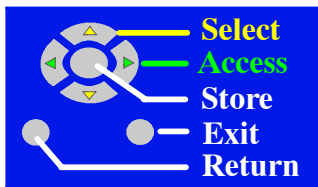
# TUNING MENU - MANUAL TUNING (Analogue mode)

Manual tuning of the Programme positions is available either from the On Screen Display menu or from the top panel controls.

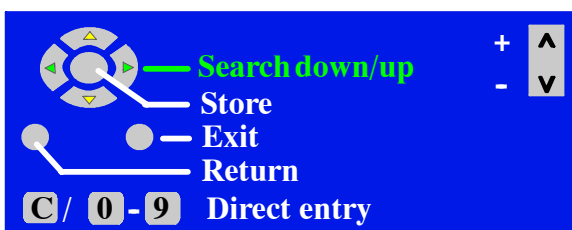
## Manual tuning menu

- Open the Main menu 
- Move to Setup menu   

- Access Setup menu   

- Move to Tuning menu   

- Access Tuning menu   

- Move to Manual tuning   

- Access Manual tuning   

- Select the programme position to be tuned   

- Start tuning   

- When the desired programme is found, press OK button to store 
- Press the EXIT button to exit 

1  
CH41



1  
CH41



Note:  
If your VCR is connected to this TV by an RF cable only, choose programme position "0" to tune to the VCR signals.

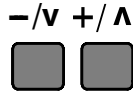
# TUNING MENU - MANUAL TUNING (Analogue mode)

## Manual tuning

Press the F button  
(Control panel) until  
"Tuning mode" is reached



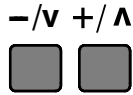
Press the - or + button  
to access Tuning mode



Press the TV/AV button  
to move between "Change  
programme" or "Search"



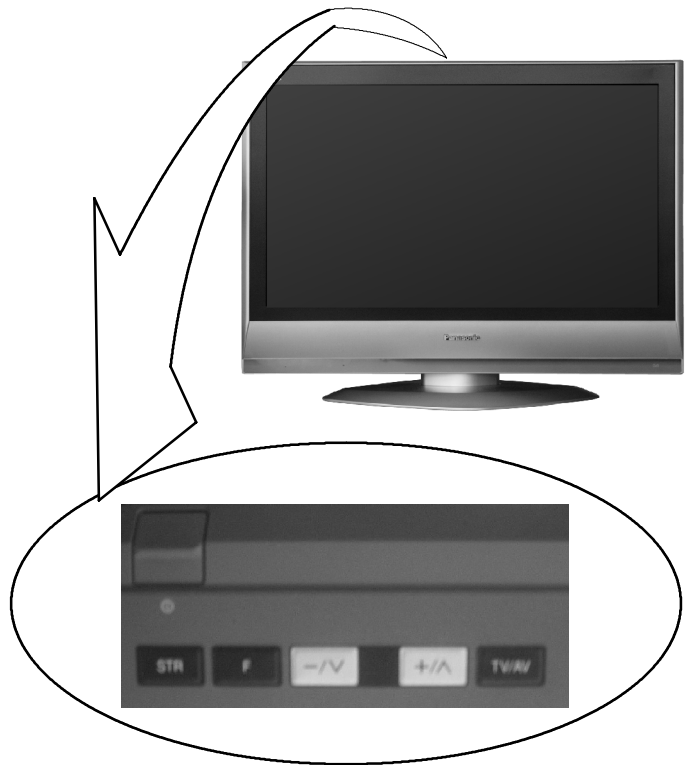
Press the - or + button  
to change programme  
position, start search.



When the desired station  
is found, press STR to  
store the changes  
The programme position  
will flash



Repeat above procedure  
to tune additional  
programmes or press  
the F button to exit



Tuning mode  
F : No      -, + : Yes



1  
CH41 SC2

**Manual tuning**

-,+	:	Search
TV/AV	:	Move cursor
STR	:	To store
F	:	To exit

21 68



# SETUP MENU - OWNER I.D.

**Owner I.D. allows you to enter a security code and address information so that in the unfortunate event of theft it will help the Police to determine the owner.**

If the **Owner I.D.** information was not entered after Auto setup or it is necessary to alter some of the I.D. information it can be re-accessed via the Setup menu (In both Analogue and DVB modes).

Open the Main menu

MENU



Move to Setup menu



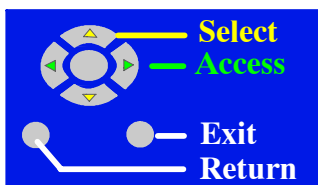
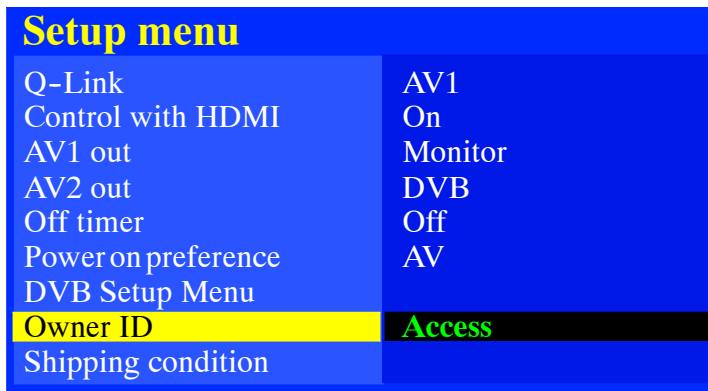
Access Setup menu



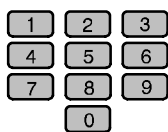
Move to Owner I.D.



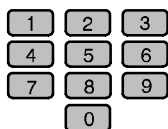
Access Owner I.D.



If the Owner I.D. has previously been set, enter the PIN NUMBER (using 0 to 9 on the remote control) followed by OK to proceed, this will take you to the NAME option.

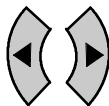


If no Owner I.D. has previously been set, enter your own 4 digit Owner I.D. PIN NUMBER (using 0 to 9 on the remote control).

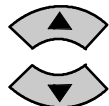


If a 4 digit PIN NUMBER was entered above, you will be taken automatically to the NAME line.

If not, move to the NAME line



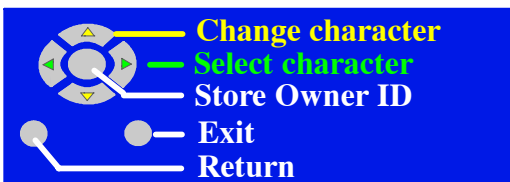
Change character



Repeat above until **NAME**, **HOUSE NUMBER** and **POSTCODE** are entered. Press the **OK** button to store the details. Press again when you are asked, "Are you sure?"



You now have the opportunity to enter your details and help the police crack crime see instruction book



# SETUP MENU - SHIPPING CONDITION

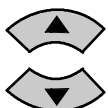
**Shipping condition allows you to reset the TV to its original condition, i.e. no channels tuned in.**


This is useful, for example, if you move to a different area when you will probably want the TV to tune itself to your new local stations.

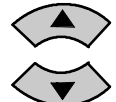
The **Shipping condition** menu will reset all data, except Owner I.D. information, clearing all DVB and Analogue tuning information and resetting all control levels back to factory settings

You may need to adjust your VCR (DVD/R) or programme position '0' VCR (DVD/R) after operating the **Shipping condition** menu.

Open the Main menu 


Move to Setup menu 

Access Setup menu 

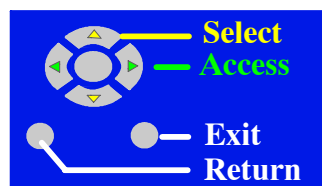
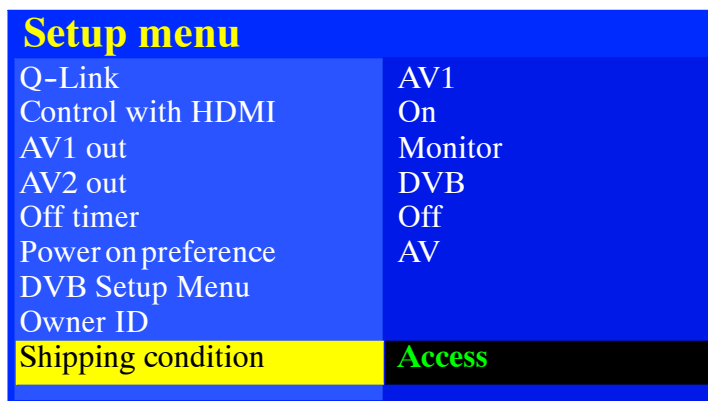
Move to Shipping condition 

Access Shipping condition 

Press OK to start 

Press again, to confirm, each time that you are asked, "Are you sure?" 

Switch TV off and wait for a few seconds.  
Switch TV on again.  
Auto setup will begin, stations will be located, sorted and stored ready for use.  
See page 25.



## DVB Setup Menu – overview (DVB mode)

The DVB Setup menu provides access to various advanced features and also to the DVB Tuning menu.

In **DVB mode**

Press the **MENU** button.

MENU



Move to **Setup** menu.



Access **Setup** menu.



Move to **DVB Setup Menu**.



Access **DVB Setup Menu**.



Move to menu option



Adjust chosen option or  
access chosen menu.



Press the **EXIT** button at any time  
to go back to watching TV.

EXIT



### Setup menu

Q-Link	AV1
Control with HDMI	On
AV1 out	Monitor
AV2 out	DVB
Off timer	Off
Power on preference	AV
<b>DVB Setup Menu</b>	<b>Access</b>
Owner ID	
Shipping condition	



### DVB Setup menu

Timer Programming	<b>Access</b>
Profile Edit	
Child Lock	
DVB Tuning Menu	
DVB System Setup	
Multi Audio	eng

**Timer Programming** Allows you to enter programme times at which the DVB tuner must switch on, ready for recording. See page 31.

**Profile Edit** Allows you to select your favourite programme positions and display them as a list in the TV Guide or Information banner (See page 33)

**Child Lock** You may wish to lock a DVB programme channel to prevent access to it. (See page 34)

**DVB Tuning Menu** Provides access to many other DVB Tuning features. (See page 35)

**DVB System Setup** Provides access to various specialised DVB options (See page 36)

**Multi Audio** Multi audio, which will only appear when a DVB programme is selected, allows you to select an alternative sound track. The number of options available depends on each broadcast.

## Timer programming menu (DVB mode)

For an external recording device to record DVB programmes, the integrated DVB system must be active to provide the signal. The Timer programming menu allows you to choose programmes that you wish to record. At the correct time, the DVB system will switch on and tune to the correct station (even if the TV is in standby mode). If the recording device is compatible with Q-Link or similar technologies (see page 39) and connected to the TV's AV1 / AV2 terminal, you do not need to program the device – the DVB system will control the recording process. The device must be connected to the TV's AV1 / AV2 terminal using a SCART cable to record DVB programmes.

In **DVB mode**

Press the **MENU** button.



Move to Setup menu.



Access Setup menu.



Move to DVB Setup Menu.



Access DVB Setup Menu.



Move to Timer Programming.



Access Timer Programming.



Press the **OK** button to begin programming.



Select the Programme position to be recorded.



Move to the Date field.



Set the date on which the recording is to take place.

The current Date and Time are shown at the top of the menu. See page 32 for further Date options.

Move to the Start time field and set the Start time.

Move to the End time field and set the End time.

The duration of the recording is shown in the min. column.

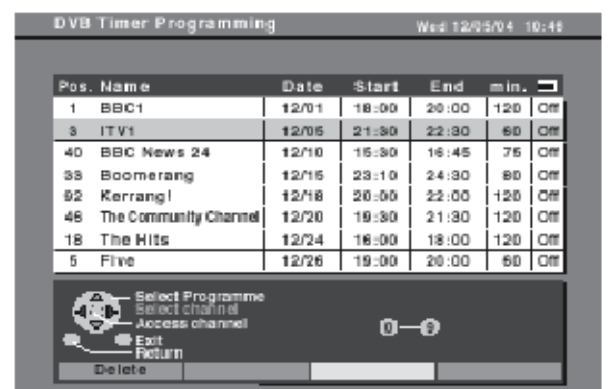
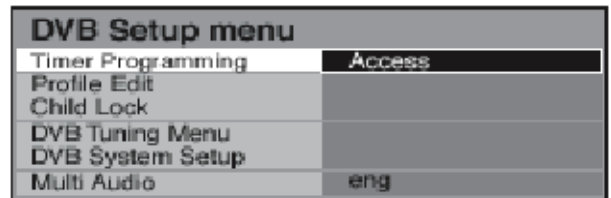
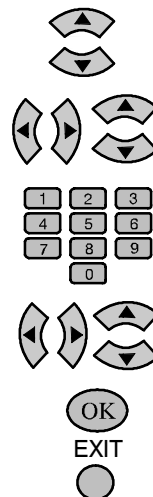
The channel position, start and end times can also be input using the numeric buttons on the remote control.

Move to the Subtitles field.

If you wish to record subtitles (if available) select Auto.

Press the **OK** button to store.

Press the **EXIT** button to leave the DVB Timer Programming screen.



### Notes:

- To delete a timer programme, select the recording with the cursor bar and press the **Red** button.
- To edit a previously entered timer programme, select it with the cursor bar and press the **OK** button.
- Timer programmes can also be entered from the TV Guide.

Two minutes before the recording is due to start, a reminder will appear on screen: Press the **OK** button to remove the reminder from the screen. If you wish to cancel the recording, press the **EXIT** button.

**Notes:** The above 2 operations will not be necessary if the TV set is in standby mode.

Six seconds before the recording is due to start the DVB system will tune to the correct station. If you were already watching another DVB station you will see the station change on screen. If you were watching an analogue channel, you will not see the change.

You can continue to watch analogue stations while a timer recording is in progress. If you attempt to switch to another DVB programme position while a timer recording is in progress the message "DVB Tuner Locked" will be displayed. Press the **OK** button to continue recording, or **EXIT** to unlock the programme position. Beware that if you press **EXIT**, timer programming for this DVB position will be immediately deleted. To immediately cancel a recording that is already in progress, press **GUIDE** then **EXIT**.

# Timer programming menu (DVB mode)

## Daily and Weekly Timer Programmes

While in the Date field of the DVB Timer Programming menu, you can select various options to determine how often a recording should be made. Press the down cursor button repeatedly to access the following options:



### Daily Su–Sa

The recording device will record at the same time every day.

### Daily Mo–Sa

The recording device will record at the same time each day from Monday to Saturday.

### Daily Mo–Fr

The recording device will record at the same time each day from Monday to Friday.

### Weekly Sa, Fr, Th, We, Tu, Mo, or Su

The recording device will record at the same time on the same day each week.

### Note:

If new timer programme data overlaps any part of an existing timer programme, the message “Timer Incorrect” will be displayed and the new data will be cleared. If overlapping data is entered using the Timer function on the TV Guide menu (see page 12), the message “Timer overlap with other timer!” will appear.

Pos.	Name	Date	Start	End	min.	
1	BBC1	12/01	18:00	20:00	120	Off
3	ITV1	Weekly TH	21:30	22:30	60	Off
40	BBC News 24	12/10	15:30	16:45	75	Off
33	Boomerang	12/15	23:10	24:30	80	Off
92	Kerrang!	12/18	20:00	22:00	120	Off
46	The Community Channel	12/20	19:30	21:30	120	Off
18	The Hits	12/24	16:00	18:00	120	Off
5	Five	12/26	19:00	20:00	60	Off

0-9

Select Programme  
Select channel  
Access channel  
Exit  
Return  
Delete

## Encrypted Programmes

In the future, some DVB programmes may be “encrypted”. This means that the DVB programme cannot be viewed or recorded unless you have the correct Common Interface module to decode the programme.

When you attempt to view or set Timer recording of an encrypted programme and you have no CI module inserted, a message will appear on screen.

## Profile Edit menu (DVB mode)

The Profile Edit menu allows you to select your favourite programme positions and display them as a list in the TV Guide or Information banner, to allow quick and easy access to the programs you watch most often.

In **DVB mode**

Press the **MENU** button.

MENU



Move to **Setup menu**.



Access **Setup menu**.



Move to **DVB Setup Menu**.



Access **DVB Setup Menu**.



Move to **Profile Edit**.



Access **Profile Edit**.



### Add a channel to the Profile list

Move to the programme position which you wish to add to the profile list.

Press the **Red** button repeatedly to cycle through the channel categories.

Press the **Green** button repeatedly to cycle through the profiles.

Press the **Yellow** button to add a channel to the profile list.

Press the **Blue** button to add all the channels to the profile list.



Press the **OK** button to store your Profile list.



### Edit the Profile list

When the profile list is highlighted

Press the **Red** button to edit the profile name.

Press the **Green** button to move the channel.

Press the **Yellow** button to delete the channel.

Press the **Blue** button to delete the all channels.



Press the **MENU** button to return to the DVB Setup Menu.

MENU



Press the **EXIT** button at any time to exit Profile Edit.

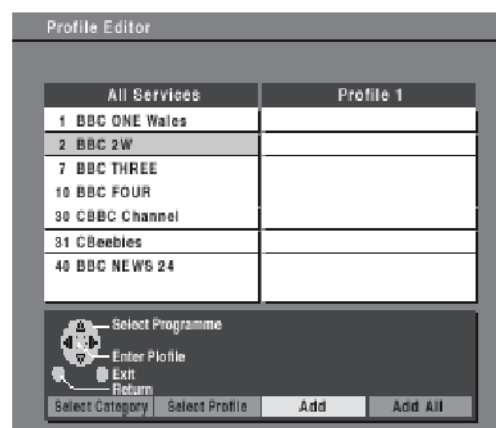
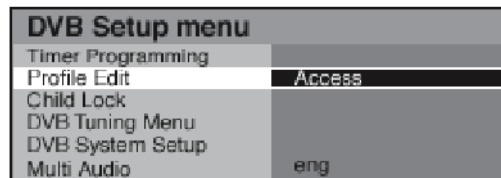
EXIT



A list of favourites can be accessed by pressing the **GUIDE** button or the **i** button.



See pages 12 and 13.



## Child Lock menu (DVB mode)

You may wish to lock a DVB programme channel to prevent access to it.

### Note:

The data of the PIN number and locked channel will be erased by operating the Shipping condition.

In **DVB mode**

Press the **MENU** button.

MENU



Move to **Setup menu**.



Access **Setup menu**.



Move to **DVB Setup Menu**.



Access **DVB Setup Menu**.



Move to **Child Lock**



Access **Child Lock**.

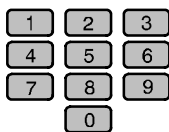


When entering Child Lock menu for the first time, new PIN number setting screen is displayed.

Create a 4–digit password.

Enter the password again to confirm.

After the first time you will only need to enter a password once to display Child Lock screen.



Move to **Child Lock Service List**.



Access **Child Lock Service List**.



Select the channel you want to lock and then press the **OK** button to lock. Press again to unlock.

Press the **Yellow** button to lock all channels.

Press the **Blue** button to unlock all channels.



The PIN number is required when you wish to watch a locked channel. If the unit is turned off it will be necessary to input the PIN number again to access any locked channels.

### Change the PIN number

In Child Lock menu

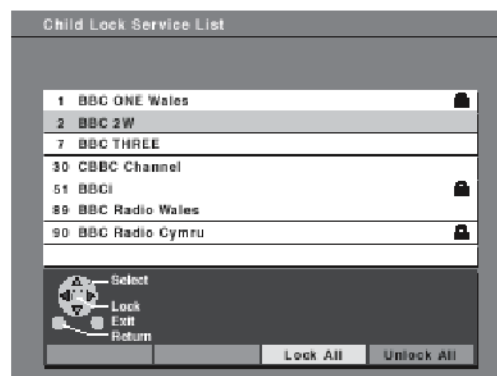
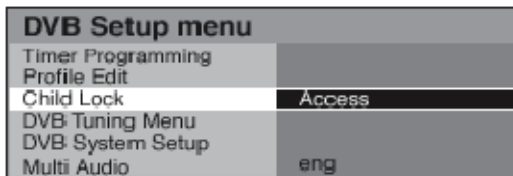
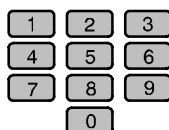
Move to **Change PIN**.

Access **Change PIN**.



Create a 4–digit new password.

Enter the password again to confirm.



## DVB Tuning Menu (DVB mode)

DVB Tuning Menu provides access to DVB Tuning features.

In **DVB mode**

Press the **MENU** button.

Move to **Setup menu**.

Access **Setup menu**.

Move to **DVB Setup Menu**.

Access **DVB Setup Menu**.

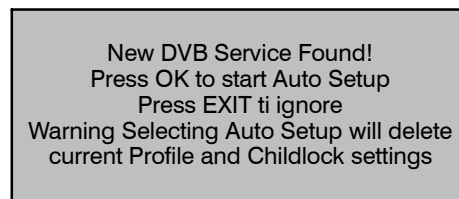
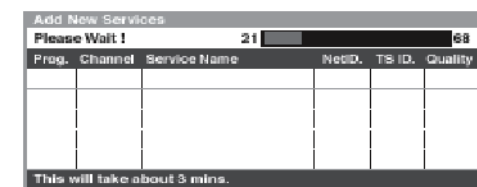
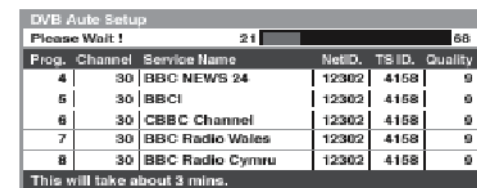
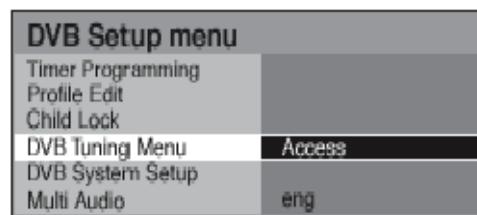
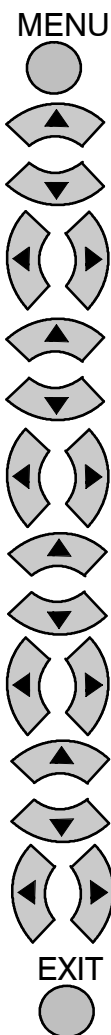
Move to **DVB Tuning Menu**.

Access **DVB Tuning Menu**.

Move to menu option

Adjust chosen option or access chosen menu

Press the **EXIT** button at any time to go back to watching TV.



### DVB Auto Setup

Automatically retunes your TV. DVB stations will be located, sorted into order and stored. DVB tuning data will be erased. If you set the Child Lock PIN number, the number is required before DVB Auto Setup.

### Add New Service

You can add new DVB stations while retaining existing tuning data. When the New Services Found message appears new DVB stations are available to add to your existing DVB channel list.

### New Service Message

This TV continually scans for updated DVB services and notifies you of any changes. Set to On to receive notification. Set to Off if you do not wish to be informed of any updates.

### Signal Condition

The signal condition function displays indications of both signal quality and signal strength for each DVB programme position.

The DVB system requires that the signal condition is of good quality to provide the best picture. When viewing analogue pictures, interference such as signal reflection from nearby buildings or mountains causes "ghosting", but still provides a viewable picture. For the DVB system, interference such as this can disrupt the flow of data causing the picture to appear to be made up of large blocks, or to freeze intermittently. If the picture disappears completely, this could mean that signal condition is very poor. If this happens often, you may need to improve your aerial system to provide a better signal.

Green bar      Good  
Red bar        Poor (check the aerial)

## DVB System Setup (DVB mode)

The DVB System Setup menu provides access to DVB specific options.

In **DVB mode**

Press the **MENU** button.

MENU



Move to **Setup menu**.



Access **Setup menu**.



Move to **DVB Setup Menu**.



Access **DVB Setup Menu**.



Move to **DVB System Setup**



Access **DVB System Setup**



Move to menu option



Adjust chosen option or access chosen menu



Press the **EXIT** button at any time to go back to watching TV.

EXIT



Pressing the **OK** button after having adjusted some features will store the setting as the default (replacing the factory setting).



DVB Setup menu	
Timer Programming	
Profile Edit	
Child Lock	
DVB Tuning Menu	
DVB System Setup	Access
Multi Audio	eng

DVB System Setup	
Common Interface Module	Access
Preferred Subtitles	English
System Update	
Display Timeout	3 seconds

### Common Interface Module

The Common Interface Module menu provides access to functions contained on a Common Interface Module inserted into the CI slot, located at the rear of the TV. See page 37.

### Preferred Subtitles

This option allows you to select the language in which subtitles should appear (if available) when the STTL button is pressed.

### System Update

This menu allows you to download new software to the television. See page 38.

### Display Timeout

This option allows you to set how long the information banner stays on screen. Select from 0 (No display) to 10 seconds in 1 second increments.

## Common Interface Module menu (DVB mode)

The Common Interface Module menu provides access to software contained on Common Interface (CI) Modules. These can be inserted in the “CI” slot located at the rear of the TV.

### IMPORTANT NOTES:

- Switch off the TV using the front panel switch before inserting or removing a module.
- If you are installing a TV software update, please follow the dedicated instructions supplied with the module.
- Insert / remove a module straight to the CI slot.

### Insert the CI module:

Some Common Interface Modules may be a two piece design consisting of a card reader together with the viewing card. When using this design of card, first insert the card reader firmly into the CI slot on the TV. Secondly, insert the viewing card into the reader.

Switch on the TV.

In **DVB mode**

Press the **MENU** button.

MENU



Move to **Setup menu**.



Access **Setup menu**.



Move to **DVB Setup Menu**.



Access **DVB Setup Menu**.



Move to **DVB System Setup**.



Access **DVB System Setup**.



Move to **Common Interface Module**



Access **Common Interface Module**



Access the module

If no module is inserted the message “No Module Inserted!” will be displayed.

(If you have inserted a module, check that it is fully inserted.)

The features that now appear on screen are dependent on the contents of the selected Common Interface Module.

Refer to the instructions supplied with the card or contact the vendor.

In all cases, it is possible to navigate the pages using buttons on the remote control, but because the commands available must apply to all manufacturers of DVB equipment, some on-screen commands may not correspond exactly to the remote control buttons.

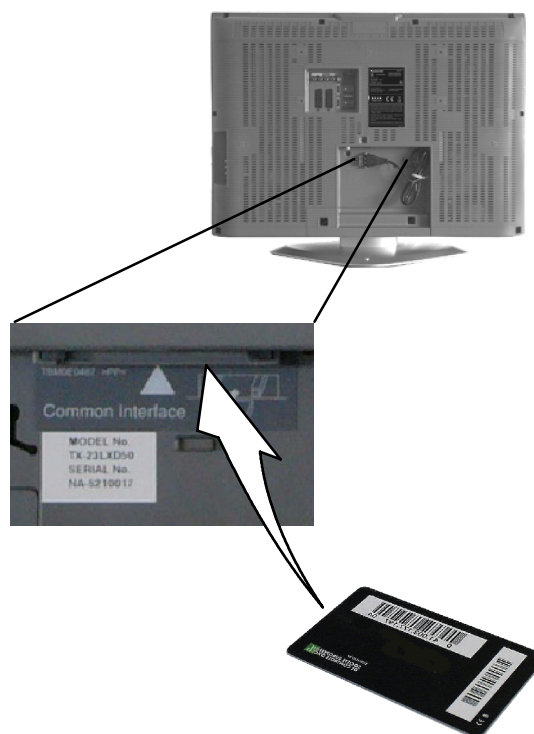
For example:

For the on-screen command ‘select’ or ‘go’, use the **OK** button.

If you see the ◀ ▶ ▼ ▲ symbols, use the cursor keys.

If you see a line of key words displayed in red, green, yellow and blue, use the coloured multifunction buttons to operate the functions.

The **EXIT** button should always allow you to exit the CI software.

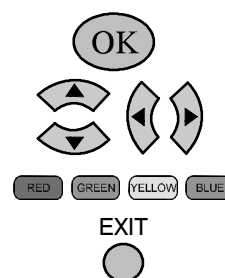


### DVB System Setup

Common Interface Module	Access
Preferred Subtitles	English
System Update	
Display Timeout	3 seconds

### Common Interface

Slot 1: No module inserted	Access
----------------------------	--------



# System Update menu (DVB mode)

From time to time new versions of software will become available

## Auto Update Search in Standby (Overnight)

During the night time, this TV will automatically search for any new available software being broadcast. If a new software version is found, the unit will automatically download and install this new version. At the end of this process the unit will reset. Auto Update Search in Standby will occur at 03:00 or 05:00 every day.

### In DVB mode

Press the **MENU** button.

Move to **Setup menu**.

Access **Setup menu**.

Move to **DVB Setup Menu**.

Access **DVB Setup Menu**.

Move to **DVB System Setup**

Access **DVB System Setup**

Move to **System Update**

Move to menu option

Adjust chosen option or access chosen menu

Press the **EXIT** button at any time to go back to watching TV.

Pressing the **OK** button after having adjusted some features will store the setting as the default (replacing the factory setting).



DVB System Setup	
Common Interface Module	
Preferred Subtitles	English
System Update	Access
Display Timeout	3 seconds

System Update	
Auto Update Search in Standby	On
System Update Search Now	
Software Licence	

**Set to On** to search for new software and update automatically in Standby mode. This does not work when the unit is powered off. If there is a new version software being broadcast, the TV will download this automatically.

Auto Update Search in Standby will only occur if:

- The unit is in Standby mode
- No timer recording is set for 03:00 or 05:00(GMT)
- No recording is being made at 03:00 or 05:00(GMT)

New version 1.00 found.  
Do you really want to update the software and reboot the system?

**Set to Off** if you do not want new software to be automatically downloaded. In this case a new software banner will appear when the TV set is switched on and tuned to a BBC channel, if new software is being broadcast.

Press the **OK** button to download the new version. The TV will begin download of the new software version. This can take up to 15 minutes. Press the **EXIT** button to exit without download.

## System Update Search Now (Manual Download)

To manually check if a new software version is available, select System Update Search Now in System Update menu and press the **OK** button. The TV will search for new versions of software and indicate whether a newer version is available or not. This search process may take a few minutes. If a newer software version is found, an on screen message will inform the user that it is available. The user is given the chance to download this version. Press the **OK** button to download the new version. The TV will begin download of the new software version. This can take up to 15 minutes.

Press the **EXIT** button to exit without download.

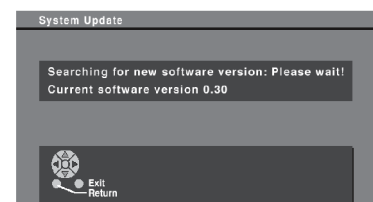
**To ensure that your TV automatically updates when new software is available, please place the TV in Standby last thing at night when you have finished viewing.**

Press the **MENU** button to return to DVB System Setup menu.

Press the **EXIT** button to exit from menus.

## Software Licence

Access to show the information of the Software Licence.



## Q-Link allows the television to communicate with a compatible VCR or DVD Recorder.

For Q-Link communication to work, the TV must be connected to a recording device with the “Q-Link”, “NEXTVIEWLINK”, “DATA LOGIC”, “Easy Link”, “Megalogic” or “SMARTLINK” logo using a “fully wired” Scart cable between the AV2 socket of the television and the appropriate socket on your VCR, and the AV1 socket of the television and the appropriate socket on your DVD Recorder. For connection to the appropriate Scart socket on the recording device, refer to the device’s operating instruction book.

### When using a “NEXTVIEWLINK” device the main features possible are the following :

#### Preset Download

This allows the programme order from the TV to be downloaded to the recording device, helping to ensure that correct recordings are made; there are several ways to perform this operation :

1. During installation as explained in the ‘Quick Start Guide’ beginning on page 7.
2. When Auto setup is started from within the Tuning menu, see page 21.
3. Preset download started from the recording device, refer to the device’s operating instruction book.

Because a recording device cannot tune to DVB stations, only the analogue programme positions are downloaded to the device.

#### Important Note:

Not all recording devices support this type of data communication system. Some may support certain features, but not others. Refer to the recording device’s operating instruction book.

If Q-Link is inoperative, first confirm that your Scart cable is a “fully wired” type. Ask your dealer for further details.

#### What You See Is What You Record (DIRECT TV RECORDING) (Not available with HDMI)

This will allow the immediate recording of the programme currently shown on the television, by the recording device attached to the Scart socket, which can be chosen using “Q-Link select”. (see page13).

Press the **DIRECT TV REC** button on the remote control.

If the recording device is in Standby mode with usable recording media inserted, it will automatically switch on when you press the **DIRECT TV REC** button.



If a “Q-Link” device is connected, a message will appear on the TV screen showing what is being recorded, or if it is not possible to record. Some “Q-Link” compatible devices will only display the message when on the VCR programme position(0) or in AV mode. Refer to the device’s operating instruction book.

#### Recording in progress

The recording device is recording the programme signal from its own tuner. If you wish you can switch off the TV and leave the device recording in the normal way.

#### No recording - Check tape or disc

The tape or disc may have been “write protected”, missing or may be damaged. The device may already be recording. Refer to the device’s operating instruction book.

#### Recording DVB stations

If you press the DIRECT TV REC button while watching a DVB station, the recording device will automatically switch to its AV input to record the DVB signal from the TV (via the SCART cable), and the DVB programme position will be locked. If you attempt to select another DVB programme position while recording, you will see the message “DVB programme is locked”. Press the OK button to clear the message, or the EXIT button to unlock the programme. Beware that if you press EXIT, the DVB programme will be unlocked – switching to another DVB programme will spoil your intended recording.

### Additionally, when using a “Q-Link” device the main features possible are the following :

The following features are only available from the device connected to the scart socket selected using “Q-Link select”. (see page 13).

#### TV / Recording device Auto Power On

If you insert pre-recorded media into the recording device and press the Play button whilst the TV is in ‘Standby’ mode, the TV will automatically switch on and select the correct AV input so that you can view the content.

#### Recording device Auto Power Standby

When the TV is switched into ‘Standby’ mode, the recording device will also switch into ‘Standby’ mode if there is no media inserted, or if there is media inserted and the device is in ‘Rewind’ or ‘Stop’ mode. If a VCR is rewinding a tape, it will not switch into ‘Standby’ mode until rewinding has finished.

#### Recording device Image View On

If the TV is in Standby mode and the recording device sends a menu to be displayed on the TV screen (e.g. Main menu), the TV will automatically switch On and the menu will be displayed.

Some other devices may support this feature. Refer to the device’s operating instruction book.

#### This TV will also communicate with other recording device’s that carry the following logos :

- “DATA LOGIC” (a trademark of Metz Corporation).
- “Easy Link” (a trademark of Philips Corporation).
- “Megalogic” (a trademark of Grundig Corporation).
- “SMARTLINK” (a trademark of Sony Corporation).

#### Important Note:










These recording devices may support some or all of the above functions. Refer to the device’s operating instruction book.

Not all recording devices support this type of data communication system. Some may support certain features, but not others. Refer to the device’s operating instruction book. Some features are only available from the device connected to the scart socket selected using “Q-Link select”. (see page13).

If Q-Link is inoperative, first confirm that your Scart cable is a “fully wired” type. Ask your dealer for further details.

## VCR / DVD/R OPERATION

The Remote Control is capable of operating some functions of selected Panasonic VCRs and DVD (Digital Versatile Disc) equipment. Some VCR and DVD equipment have different functions, so to ensure compatibility please refer to the equipment's instruction book or consult your dealer for details.

	<b>Standby</b> Press to switch the VCR or DVD/R to standby mode. Press again to switch back on.
	<b>VCR / DVD switch</b> Use this switch to select whether controls operate DVD equipment or your VCR.
	<b>Play</b> Press to playback the tape or DVD.
	<b>Stop</b> Press to stop the tape or DVD.
	<b>Skip / Fast Forward / Cue</b> VCR: Press to fast forward the tape. In Play mode, press to view the picture rapidly forward. DVD/R: Press once to skip to the next track. In play mode press and hold to view the picture rapidly forward.
	<b>Skip / Rewind / Review</b> VCR: Press to rewind the tape. In Play mode, press to view the picture rapidly in reverse. DVD/R: Press once to skip to the previous track. In play mode press and hold to view the picture rapidly in reverse.
	<b>Pause / Still</b> Press in playback mode, the picture will pause. Press again to restart play.
	<b>Programme Up / Down</b> Press to increase or decrease the VCR (DVD/R) programme position by one.
	<b>Record</b> Press this button to start recording.

# TELETEXT OPERATION (Analogue Mode)

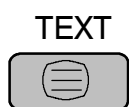
- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- Pressing the Menu whilst in Teletext operation will display the contrast function with a cyan bar, press ◀ ▶ to alter the setting as required.  
Pressing the Picture button whilst in Teletext operation will display special function options at the bottom of the screen.
- When in Teletext mode, the volume may still be altered to the desired listening level.

## What is LIST mode ?

In LIST mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

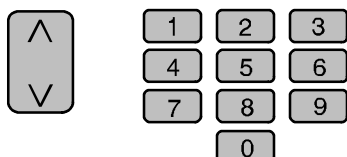
## What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.



### TV / Teletext mode

Press the **TEXT** button.  
The screen will display the Teletext page.  
Press again when you wish to return to TV mode.



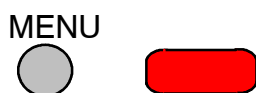
### Page Selection

Pages can be selected in two ways :  
a. Press the Up / Down buttons to increase or decrease the page number by one.  
b. By entering the page number, using 0 - 9 on the remote control.



### Full / Top / Bottom

Press the **MENU** button to display special functions, followed by the **Green** button.  
Press the **Green** button again to expand the **BOTTOM** half.  
Press again to return to normal (**FULL**) size.



### Reveal

Press the **MENU** button to display special functions, followed by the **Red** button to reveal hidden words e.g. quiz page answers. Press again to hide.



### Red / Green / Yellow / Blue buttons

In **FASTEXT** mode these correspond to the differently coloured subjects.  
In **LIST** mode they correspond to the differently coloured page numbers.



### List Store

In **LIST** mode the four page numbers can be altered (only for analogue stations stored on programme positions 1 - 25).  
To do this, press one of the four coloured buttons and enter the new page number.  
Press and hold **OK**, the page numbers will change to white indicating that the page is stored.



### Hold

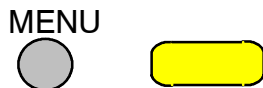
In **Text** mode holds the current text page  
In **TV** mode press the **HOLD** button to freeze the picture.  
Press again to return to watching the current programme.  
(Not available in **HDMI** or **Component** mode)

# TELETEXT OPERATION (Analogue Mode)

It is not possible to change the programme position when in News flash, Update or Sub Coded Page Access operation.

## Display Cancel (Update Display)

Press the **MENU** button to display special functions, followed by the **Yellow** button to view the TV picture whilst searching for a Teletext page.  
When found, the screen will display the page number at the top left.  
Press the **Yellow** button to view the page.  
Press **TEXT** again to return to normal TV operation.

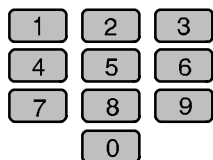


### News Flash

When a news flash page has been selected, press **MENU, Yellow**, to view the TV picture. When an update is received, the page number will be displayed on screen.  
Press the **Yellow** button to display the News Flash  
Press **TEXT** to return to normal TV operation.

### Update

Press **MENU, Yellow** to see the update of information on certain pages.  
When an update is received, the page number will be displayed at the top left of the screen.  
Press the **Yellow** button to view the page.  
Press **TEXT** to return to normal TV operation.



## Sub Coded Page Access

When Teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. As each sub page is found its number is displayed at the top of the page so that you may select it; as more sub pages are picked up, the display at the top of the page changes, so that you are always offered the most recently transmitted selection of sub pages.

In Teletext operation, use the following procedure to access sub pages:

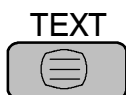
If the sub page you want to look at is not yet available, press the **MENU** button (to display special functions) followed by the **Yellow** button to view the TV picture whilst waiting for more sub pages to be found. The sub pages found will be displayed across the top of the screen.

When the sub page you are waiting for is available press the **Yellow** button to return to viewing the Teletext pages, then use the left and right cursor buttons to select the sub page of your choice.

### Note:

- If you have used the left and right cursor buttons to select a sub page whilst still viewing the TV picture, you must press the **MENU** button then the **Yellow** button to display the Teletext page again.

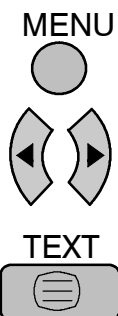
Press **TEXT** twice to return to normal TV operation.



## Index

### When in FASTEXT operation

Press **INDEX** to return to the main index page.  
Depending on the way information is transmitted, this may have to be pressed more than once to return to the main index page.



## Picture and text

Press the **MENU** button twice to display special functions, followed by the left or right cursor button to select Picture and text On or Off.

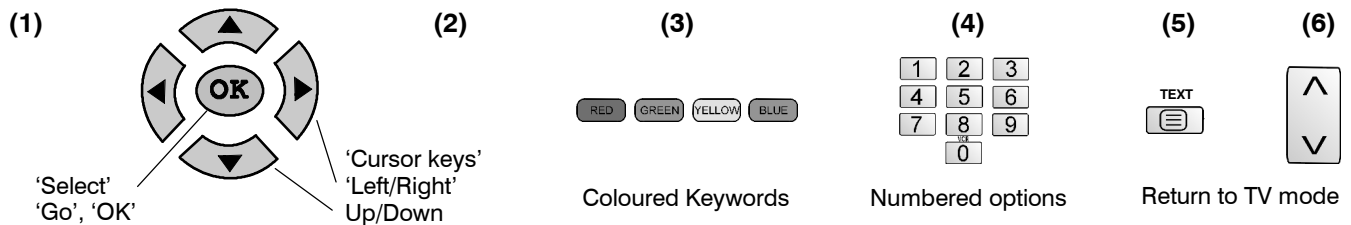
Picture and text mode lets you see the current programme and a page of teletext side by side. Whilst using this feature, the remote control affects the teletext page; if you wish to make changes to the programme viewed press the **TEXT** button to return to watching the programme on its own then make the desired changes.

# TELETEXT OPERATION (DVB Mode)

## DVB teletext services

DVB teletext services differ greatly from analogue teletext. When you switch to a DVB teletext service, the images you see can contain graphics and text, laid out and controlled in a manner decided by the broadcaster. In all cases, it is possible to navigate the pages using buttons on the remote control, but because the commands available must apply to all manufacturers of DVB equipment, some on–screen commands may not correspond exactly to the remote control buttons. For example:

- For the on–screen command ‘select’ or ‘go’, use the **OK** button (1).
- If you see the ◀ ▶ ▼ ▲ symbols, use the appropriate **CURSOR** keys (2).
- If you see a line of key words displayed in red, green, yellow and blue, use the coloured multifunction buttons (3) to operate the functions.
- For numbered options, use the **numeric** keypad (4).
- The **TV/TEXT** button (5) should allow you to exit the teletext system. Alternatively, press the **CHANNEL UP / DOWN** buttons (6) to select another channel.



As soon as you switch to a DVB channel with links to a teletext service, software is downloaded in the background to enable the teletext function. This means that when switching to a DVB channel, you should wait for approximately 5 seconds before pressing the **TV/TEXT** button (5) – this will allow the software to download. If you press the **TV/TEXT** button (5) before download is complete, there will be a short delay before the text screen is displayed.



While navigating DVB teletext, you will find there is a short delay when moving between pages while the page downloads. There is often a prompt shown somewhere on the page (for example “Loading”) to let you know that this is happening.

# CONNECTIONS (AV)

It is possible to connect a variety of additional equipment to this TV.

The following pages detail how to connect external equipment to the rear and side of the TV.

Once your equipment is connected, use the following procedure to view the input:

Press the **TV/AV** menu button

Whilst the on screen selector keys are displayed, select the page by pressing the Red or Blue button and then press coloured buttons to select the AV source you wish to view.

**Red** button : AV1 Scart terminal / Back page

**Green** button : AV2 Video, S-Video Scart terminal

**Yellow** button : AV3 Audio, Video, S-Video terminals /Component terminals

**Blue** button : Next page / HDMI 1/2



The on screen selector keys that appear clear after a few seconds. If you want to select an input when the keys are not shown, press any of the coloured keys and the keys will reappear.

**Notes:** This television may automatically switch over to the AV mode if the connected device sends a switch signal to the SCART cable connector. In this case, the “EC” will be displayed in the left top corner of the screen and the signal from the AV equipment (for the RGB signal the “EC/RGB” will be displayed).The picture received will remain the same when the TV programme is changed. (See table below for full functionality)

- You may switch back to the television by pressing button **TV/AV** or by switching off the AV device.
- You can also select an AV source using the **TV/AV** button on the control panel on the top panel of your TV. Press the **TV/AV** button repeatedly until you reach the AV source you wish to view.
- When in **AV mode** a reduced number of options are available in the **SOUND** and **SETUP** menus (eg: in the Setup menu there is no **Tuning menu** option).

## Screen displays

Terminal	AV1	AV2	AV3	Component	HDMI1	HDMI2
<b>Manual Input Selection</b>	AV1	AV2 AV2S (S-Video Input)	AV3 AV3S (S-Video input)	Component	HDMI1	HDMI2
<b>Auto Input Selection</b>	EC1/RGB AV1/RGB RGB (Input)	EC2/RGB EC2S (S-Video Input)	-	-	EC/HDMI1	-

## Headphones Connection

Output from **Headphones** socket



3.5mm Stereo Plug



STEREO HEADPHONES with 3.5mm Plug

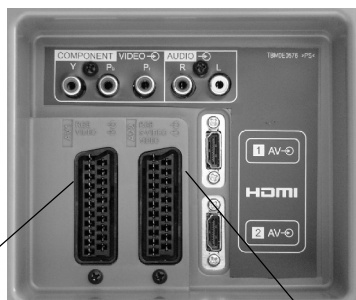


### Notes:

- Additional equipment and cables shown are not supplied with this TV set.
- The volume level of the headphones can be adjusted by selecting “Headphone volume” from the Sound menu.

# CONNECTIONS (AV)

## Rear sockets



### AV1:

VCR  
Q-Link COMPATIBLE VCR  
SET TOP BOX  
DVD PLAYER  
DVD RECORDER  
CAMCORDER

GAME CONSOLE /  
COMPUTER(RGB)  
Q-Link COMPATIBLE  
DVD RECORDER

### AV2:

VCR / S-VIDEO VCR  
Q-Link COMPATIBLE VCR  
SET TOP BOX  
DVD PLAYER  
DVD RECORDER  
Q-Link COMPATIBLE DVD  
RECORDER

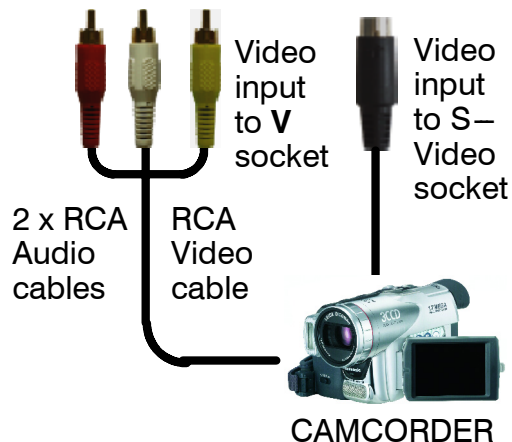
CAMCORDER / S-VIDEO  
GAME CONSOLE /  
COMPUTER(RGB)  
CAMCORDER

## Side connections

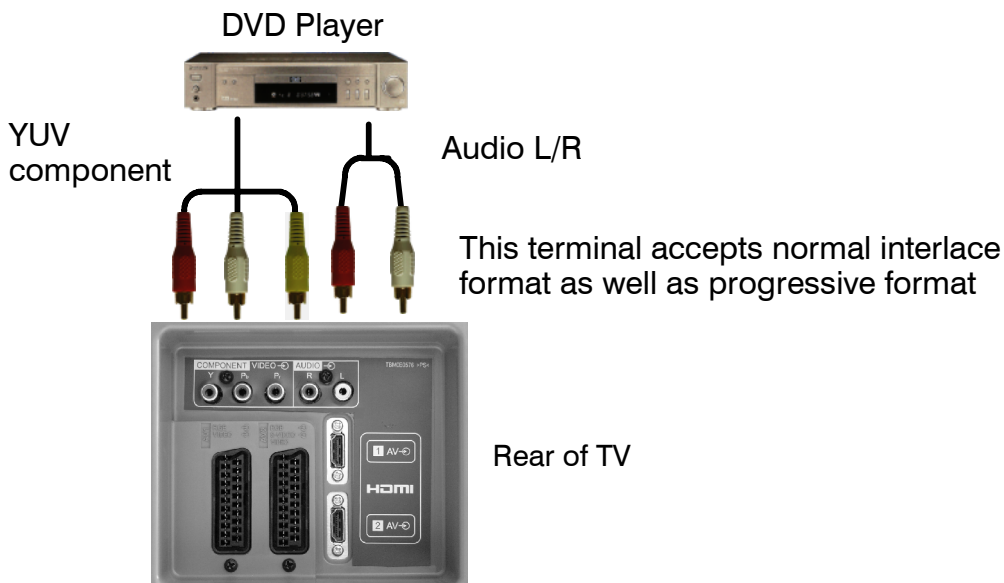
Audio  
input to  
L / R  
sockets



R - L V S-V



## How to connect the Component Input terminals



### Notes:

- Additional equipment and cables shown are not supplied with this TV set.
- Do not connect a computer with TTL output (5V) to this set.
- For Scart socket wiring information see page 48.
- When viewing an RGB signal on the screen, whether it is an internal source (i.e. IRD picture) or Ext source (AV-RGB) the product is restricted to output a combined S-Video source from the AV1 or AV2.

# HDMI Functions

## Control with HDMI “HDAVI Control”

Enjoy additional HDMI Inter-Operability with Panasonic products which have “HDAVI Control” function. HDMI connections to some Panasonic equipment (Panasonic DVD Recorder DIGA) allow you to enjoy easy playback, power on link or power off link.

HDMI (High Definition Multi media Interface) is the first all-digital consumer electronics A/V interface that supports uncompressed standard. The HDMI terminal supports both video and audio information.

An HDMI-compliant device, such as a Set Top Box or DVD player with HDMI or DVI output terminal can be connected to the HDMI input terminal.

### Easy Playback

Automatic Input switching. When the connected Panasonic equipment is operated, input mode is switched automatically. When it has stopped operating, input mode is returned.

### Power On Link

When the connected equipment starts playback or direct navigator or function menu are activated, the TV is automatically turned on. (Only when TV is in Standby mode)

### Power Off Link

When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

#### Summary of Control Functions ( “o” indicates available “–” indicates not available)

Connections Function	HDMI and SCART	SCART (Q-Link only)	HDMI only
Easy Playback	o	o	o
Direct TV Recording	o (Not when viewing HDMI input)	o	–
Power on Link	o	o	o
Power off Link	o	o	o
Analogue TV tuning download (See page 24.	o	o	–

- Setup the equipment to enable this function. Read the manual for the equipment.
- If adding new equipment or reconnecting equipment or changing setup, using the TV/AV button on the remote control to select the correct connection (i.e. HDMI1 or HDMI2). (See page 44)
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by TV’s remote control with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Amplifier. Read the manuals of the Amplifier.

# CONNECTIONS (HDMI)

- If the external device has DVI output only, use a DVI to HDMI adapter cable to connect to the HDMI1 terminal only.
  - Connect the audio cables to the AUDIO IN terminals when using a DVI to HDMI adapter cable.
- (Use only a fully compliant HDMI cable (fully wired).  
Select the audio setting in HDMI input. See page 19

## NOTES

If adding new equipment or reconnecting equipment or changing setup, using the TV/AV button on the remote control to select the correct connection (i.e. HDMI1 or HDMI2). (See page 44)

- This input terminal is not intended for use with computers.
- 720p/1080i signals will be re-formatted to view on your display
- If the external devices have aspect adjustment, set to 16:9
- For applicable HDMI signals information see page 47
- Non-HDMI-compliant cables cannot be utilized.
- It is recommended that you use Panasonic's HDMI cable.

Recommended part numbers:

- RP-CDHG15 (1.5 m)
- RP-CDHG30 (3.0 m)
- RP-CDHG50 (5.0 m)



Set Top Box  
DVD Player



Use only a fully compliant HDMI cable (fully wired)

## Compatible sampling frequency of AUDIO signal through HDMI (L.PCM) : 48kHz / 44.1kHz / 32kHz

- This HDMI connector is type A.
- If you connect equipment without a digital output terminal, connect to the COMPONENT, S-Video or VIDEO input terminal on the TV so you can receive an analogue signal
- The HDMI IN terminal can only be used with 480i, 480p, 576i, 576p, 720p or 1080i picture signals. Set the Digital Set Top Box DIGITAL OUT terminal output setting to 480i, 480p, 576i, 576p, 720p or 1080i. For detailed information, refer to the Digital Set Top Box instruction manual. If you cannot display the picture because your Digital Set Top Box does not have a DIGITAL OUT terminal output setting, use the component input (or the S-Video input or Video input). In this case the picture will be displayed as an analogue signal.
- HDMI-compliant devices will always display the HDMI Logo.
- Always use a fully compliant HDMI cable (fully wired).
- HDMI2 terminal is for digital audio signal only.
- When viewing a 1080i input source it is normal for the picture to show line jitter.
- When viewing a Component or HDMI source then AV-Monitor Out is not available.

Signal name "o" indicates available "-" indicates unavailable		Aspect modes							Aspect Control Signals								
									Widescreen signal (WSS)					Control signal through SCART (pin8) or HDMI terminal			
		Auto Aspect	16:9	14:9	4:3	Zoom 1	Zoom 2	Zoom 3	TV	AV 1	AV 2	AV 3	Component	AV1	AV2	HDMI1	HDMI2
TV/ AV1/AV2/ AV3	PAL I	o	o	o	o	o	o	o	o	o	o	o	-	o	o	-	-
	PAL 525/60	o	o	o	o	o	o	o	o	o	o	o	-	o	o	-	-
	DVB	o	o	o	o	o	o	o	o	-	-	-	-	o	o	-	-
	MNTSC	o	o	o	o	o	o	o	-	-	-	-	-	o	o	-	-
	NTSC/AV (Input only)	o	o	o	o	o	o	o	-	-	-	-	-	o	o	-	-
Component / HDMI	S D	525(480)/60i	o	o	o	o	o	o	o	-	-	-	-	-	-	o	o
		525(480)/60p	o	o	o	o	o	o	o	-	-	-	-	-	-	o	o
		625(576)/50i	o	o	o	o	o	o	o	-	-	-	o	-	-	o	o
		625(576)/50p	o	o	o	o	o	o	o	-	-	-	-	-	-	o	o
	H D	750(720)/50p	o	o	o	o	o	o	o	-	-	-	-	-	-	o	o
		750(720)/60p	o	o	o	o	o	o	o	-	-	-	-	-	-	o	o
		1125(1080)/50i	o	o	o	o	o	o	o	-	-	-	-	-	-	o	o
		1125(1080)/60i	o	o	o	o	o	o	o	-	-	-	-	-	-	o	o

# CONNECTIONS

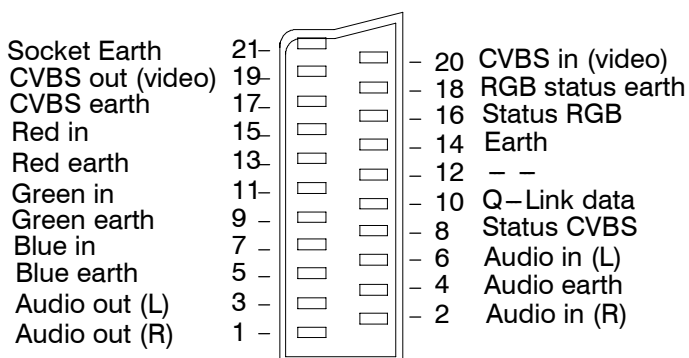
Applicable input signal for Component (Y, Pb, Pr) and HDMI ("O" indicates available)

Signal name	Horizontal frequency (kHz)	Vertical frequency (kHz)	Component	HDMI
525 (480) / 60i	15.73	59.94/60	O	O
525 (480) / 60p	31.47	59.94/60	O	O
625 (576) / 50i	15.63	50.00	O	O
625 (576) / 50p	31.25	50.00	O	O
750 (720) / 60p	45.00	60.00	O	O
750 (720) / 50p	37.50	50.00	O	O
1,125 (1,080) / 60i	33.75	60.00	O	O
1,125 (1,080) / 50i	28.13	50.00	O	O

### Notes:

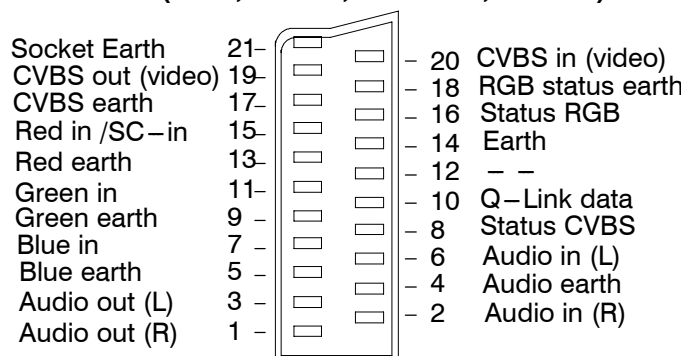
Signals other than the above may not be displayed properly.

### AV1 21 pin SCART terminal (RGB, VIDEO, Q-Link)



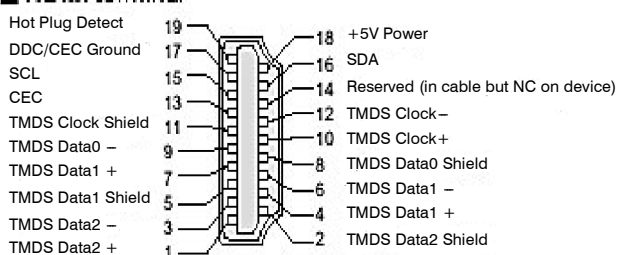
Suitable inputs for AV1 include RGB  
(Red/Green/Blue)

### AV2 21 pin SCART terminal (RGB, VIDEO, S-Video, Q-Link)

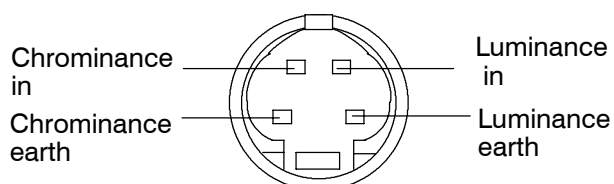


Suitable inputs for AV2 include RGB  
(Red/Green/Blue)  
AV2-Pins 15 and 20 are dependent on  
AV2 S-VHS / VIDEO switching

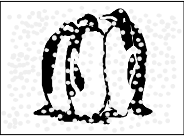
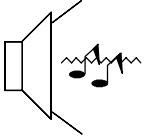
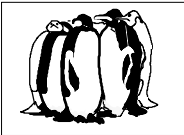
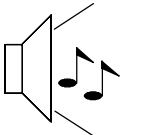

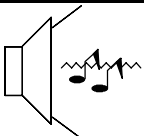

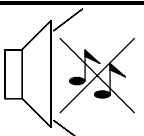

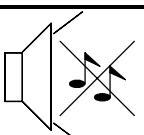
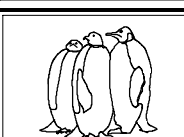
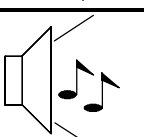

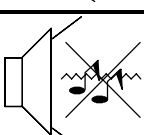
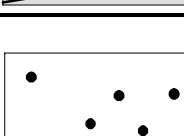
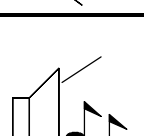
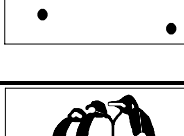
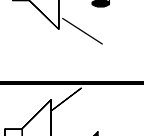
### HDMI terminal



### S-Video 4 pin socket



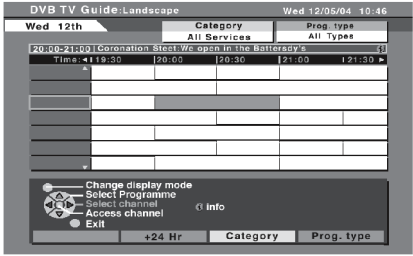
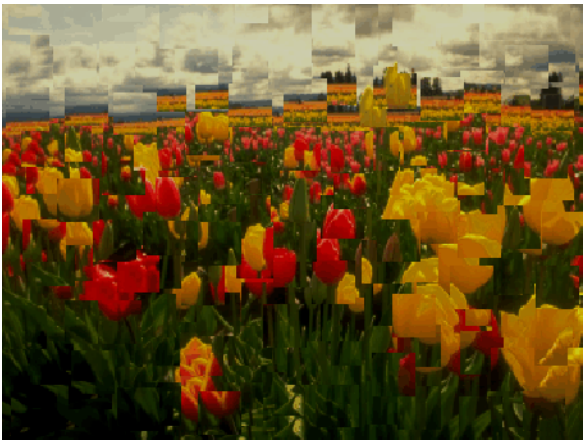
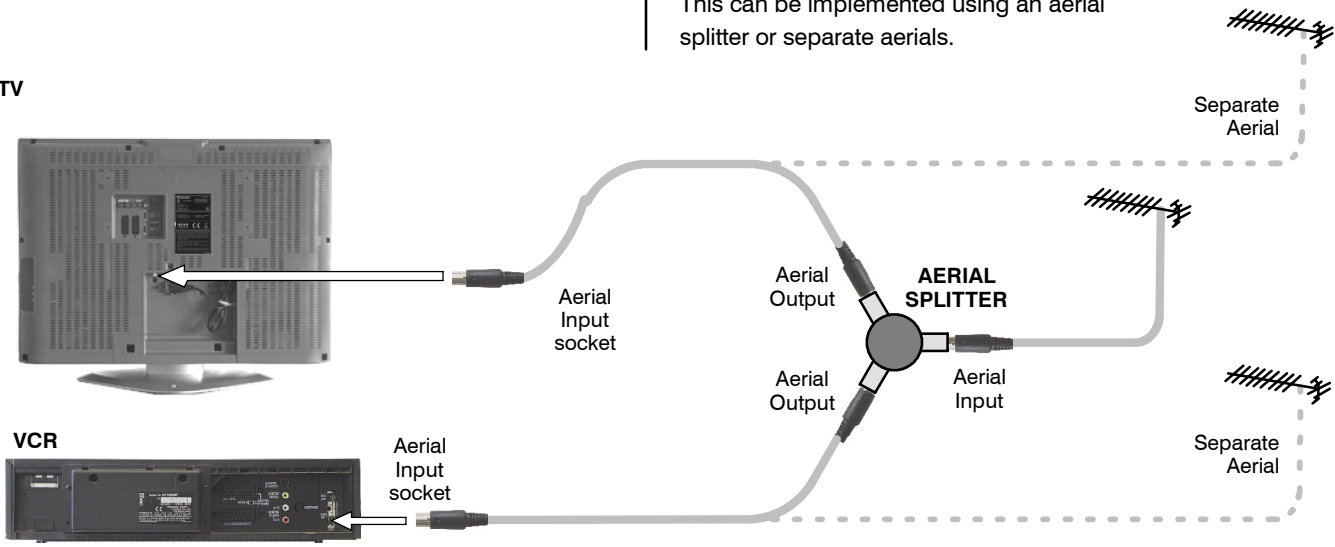
# TROUBLESHOOTING

Symptoms				Checks
Picture		Sound		
	Snowy Picture		Noisy Sound	Aerial location, direction or connection.
	Multiple Images		Normal Sound	Aerial location, direction or connection
	Interference		Noisy Sound	Electrical appliances Cars / Motorcycles  Switch on P-NR in Picture menu to reduce picture noise
	Normal Picture		No Sound	Volume level  Sound mute switched on
	No Picture		No Sound	TV set to AV mode Not plugged into A.C. outlet Not switched on Picture / Sound controls set at minimum levels Check if in standby mode
	No Colour		Normal Sound	Colour controls set at minimum levels
	Poor or Distorted Picture		Weak or No Sound	Retune Channel(s)
	There may be red spots, blue spots and green spots on the screen.		Normal Sound	This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green, or red. Please note this does not affect the performance of your LCD.
	Normal Picture		Weak or distorted sound	Sound reception may have deteriorated. Switch NICAM setting (Sound menu) to Off until reception improves.
Poor Video (Snow noise, no picture, picture runs etc)				HDMI cable is not connected securely. Turn the power supply of the TV and connected equipment off then turn back on. Check compatibility of input signal from the connected equipment. The connected equipment must be EIA/CEA-861/861B compliant
Poor Audio				Change the audio setting of the connected equipment to L PCM. Check the setting of HDMI input in Sound menu. If the problem is due to the digital audio connection, change to the analogue audio connection
The error message appears				Please consult an Authorised dealer

# DVB TROUBLESHOOTING

Some problems will only occur when viewing DVB channels. Due to the different techniques involved in digital reception, DVB *signal quality* can be poor even if you appear to have a *strong signal* when viewing analogue programmes.

The DVB system requires a good quality signal to provide the best picture. When viewing analogue pictures, interference such as signal reflection from nearby buildings or mountains causes 'ghosting', but still provides a viewable picture. For the DVB system, interference such as this can disrupt the flow of data causing the picture to appear to be made up of large blocks, or to freeze intermittently. If the picture disappears completely, this could mean that signal quality is very poor. If this happens often, you may need to improve your aerial system to provide a better signal.

Symptom	Checks
<p>No DVB channels listed in the TV Guide after Auto Setup.</p> 	<p>Check that DVB transmissions are available from the transmitter you are currently using. If not, try directing the aerial at another local transmitter.</p> <p>Check analogue transmissions. If picture quality is poor, you will need to improve or change your aerial system to receive DVB channels. Consult a local installer.</p>
<p>Blocky interference. Picture freezes intermittently.</p> 	<p>Blocky interference indicates that the signal quality is poor. You should consider improving your aerial system.</p> <p>To check the quality of your signal use the Signal Condition feature (see page 35).</p> <p>Good quality signal – indication is green.</p> <p>Poor quality signal – indication is red.</p>
<p>I have a good aerial system, but still cannot receive DVB stations.</p> <p>TV</p>  <p>VCR</p>	<p>If you have tried the previous solutions and are still unable to receive DVB channels, you may need to provide dedicated aerial feeds to the TV and other equipment.</p> <p>This can be implemented using an aerial splitter or separate aerials.</p>

## FREQUENTLY ASKED QUESTIONS

	Problem	Actions
<b>S C R E E N</b>	Chaotic image, noisy	Set "P-NR" in the Picture menu (to remove noise). (p. 18) Check nearby electrical products (car, motorcycle, fluorescent lamp).
	No image is displayed	Is "Colour" or "Contrast" in the Picture menu set to the minimum?
	Blurry or distorted image (no sound or low volume)	Retune channels (see pages 25 and 35)
<b>S O U N D</b>	No sound is produced	Is "Sound Mute" active? (See page 6) Is the volume set to the minimum?
	Sound level is low or sound is distorted	If digital sound connection has a problem, select analogue sound connection. (p. 19) Sound signal reception may be deteriorated. Set "NICAM" (p. 19) in the Sound menu to "Off". (Analogue only)
<b>H D M I</b>	Sound is unusual	Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI1 input" setting in the Sound menu. (p. 19) If digital sound connection has a problem, select analogue sound connection. (p. 19)
	Pictures from external equipment are unusual when the equipment is connected via HDMI	Is the HDMI cable connected properly? (p. 46) Turn Off the TV unit and equipment, then turn them on again. Check input signal from the equipment. (p. 35) Use equipment compliant with EIA/CEA-861/861B.
<b>D V B</b>	Interference or frozen / disappearing image in DVB	Check "Signal Condition". (p. 35) If "Signal Quality" or "Signal Strength" are displayed in red, check aerial. If problem persists, consult your local Panasonic dealer. Use the remote control to turn Off the TV unit, then turn it On again. Due to the digital reception technologies involved, quality of the DTV signals may be relatively low in some cases, despite good reception of analogue programmes.
<b>O T H E R</b>	TV unit goes into "Standby mode"	The sleep function is activated. The TV unit enters "Standby mode" about 30 min. after broadcasting ends.
	The remote control does not work	Are the batteries installed correctly? (p. 4) Has the TV unit been switched On?

## ON SCREEN MESSAGES

On Screen Messages	Actions / Meanings
All tuning data will be erased	"Shipping condition" will erase all tuning data.
Are you sure?	Confirm that this is the correct operation
Bad Signal	The signal is weak. Check the aerial.
Are you sure you want to delete this timer ? Press OK to delete timer Press Exit to return	Confirm that this is the correct operation
DOWNLOAD IN PROGRESS PLEASE WAIT	Q-Link channel download is in progress.
DVB Tuner Locked This programme is locked for recording	If you want to unlock, cancel Direct TV Recording (p. 36) or Timer Programming (p. 34).
Feature not available	Check the Q-Link connection and setting (p. 39). Confirm that you are not trying to record from an unsuitable source (i.e. Component / HDMI / PC).
Incorrect PIN Number	The PIN number you entered is wrong.
Invalid DVB Channel	Invalid DVB channel is selected.
Invalid system time. Please exit !	Cannot get the time information. Check the connection of the RF cable.
Max number of Timer already set !	Max number of Timer already set !
New DVB Service Found! Press OK start Auto Setup Press EXIT to Ignore. Warning! Selecting Auto Setup will delete current Profile and Childlock settings	There is a new DVB station. (p. 35)
New version 1.90 found. Do you really want to update the software and reboot the system ? Press OK to download the new version Press EXIT to Ignore	There is a new software available. (p. 38)
No DVB Service found	No DVB signal can be found in Auto Setup.
No module inserted	Check the CI module inserted completely (p. 25).
No recording – Check Tape or Disc	The tape or disc may be "write protected", missing or damaged. The equipment may already be recording.
No recording – UNKNOWN REASON	The recording cannot be made. Check the equipment. Disc or tape may be full.
No Service	The station has stopped the services.
No Signal	Check the connection of the RF cable.

## ON SCREEN MESSAGES

On Screen Messages	Actions / Meanings
Please check aerial or local DVB service availability. Press OK to start Auto Setup	Please follow the message. If it still fails, consult your local Panasonic dealer.
Please check settings and connections on HDMI devices.	Communication error with Control on HDMI function (p. 46)
No stations found	Please insert the aerial No analogue signal can be found in Auto setup.
Please wait.	A function is in progress.
Recording in progress	The recording equipment is recording the programme signal from its own tuner. You can turn the TV off and leave the equipment recording in the normal way.
Recording stopped – TV source changed	Direct TV recording (analogue mode) will stop if channel or input source is changed.
Software successfully updated	Press EXIT to continue The software updating is finished
Software Update failed. Please try again later. Press EXIT to continue	Perform "System Update Search Now" in System Update (p. 38). If it is still failed, there may not be any new software.
This service is locked! Press OK to enter PIN	The selected channel is locked in Child Lock (p. 34).
Timer already expired !	Starting time in Timer Programming is already past. Set correctly (p. 31).
Timer Event Due to Start 1: BBC1 has been Programmed for recording at 20:00	This message will appear 2 minutes before timer programming event due to start.
Timer incorrect !	Set Starting and Ending times in Timer Programming correctly (p. 31).
Timer overlap!	The timer programme events are overlapped. Cannot record other channel at the same time. Check the Starting and Ending times in Timer Programming (p. 31).
Unable to download, Check Equipment	The tape or disc is active. Stop the equipment and try again.
WARNING All analogue tuning data will be erased	Auto setup will erase all present analogue tuning data (p. 25).
WARNING All digital tuning data will be erased	DVB Auto Setup will be erased all present DVB tuning data (p. 35).

## FOR YOUR GUIDANCE

**Service:** Before requesting service for this LCD TV, please refer to the troubleshooting guide on previous page to determine the symptoms. To obtain service please contact your local Panasonic dealer quoting the model number and serial number (both are located at the rear of the LCD TV).

## SPECIFICATIONS

	TX-32LXD60	TX-26LXD60
<b>Power Source</b>	220 - 240V A.C., 50 Hz	
<b>Power Consumption</b>	Average use : 153 W Standby condition : 1W (Without DVB recording) 10W (TV + DVB system set to record Timer programmes).	Average use : 105 W Standby condition : 1W (Without DVB recording) 10W(TV + DVB system set to record Timer programmes).
<b>LCD</b>	Wide XGA (1,366 x 768 pixels) 16:9 aspect ratio LCD panel	Wide XGA (1,366 x 768 pixels) 16:9 aspect ratio LCD panel
<b>Screen Size (Visible diagonal)</b>	80 cmV	66 cmV
<b>Audio output</b>	2 x 10 W	2 x 10 W
<b>Headphones</b>	M3 (3,5 mm) Jack x 1	M3 (3,5 mm) Jack x 1
<b>Receiving Systems/ Band name</b>	<b>PAL I</b> <b>PAL 525/60</b> <b>DVB</b> <b>M.NTSC</b> <b>NTSC (AV input only)</b>	UHF E21-68. Playback of NTSC tape from some PAL Video recorders (VCR). Digital terrestrial services via UHF aerial input. Playback from M.NTSC Videorecorders (VCR). Playback from NTSC Videorecorders (VCR).
<b>Aerial - Rear</b>	UHF	
<b>Operating Conditions</b>	Temperature: 5°C-35°C Humidity: 5%-90% RH (non-condensing)	
<b>Connections Rear</b>	<b>AV1</b> - 21 pin socket - Audio / Video in / out, RGB in,Q-Link <b>AV2</b> - 21 pin socket - Audio / Video in/out, S-Video in, RGB in,Q-Link. Component Y, Pb, Pr, Audio L+R 2 x RCA HDMI 1,2 Type A Connector	
<b>Teletext pages</b>	500	
<b>AV - Side panel</b>	<b>AV3</b> - S-Video in, RCA Audio / Video in.	
<b>Dimensions (inc. stand) (W x H x D)</b>	791 mm x 615 mm x 301 mm	657 mm x 525 mm x 301 mm
<b>Dimensions(TV set only) (W x H x D)</b>	791 mm x 563 mm x 107 mm	657 mm x 473 mm x 107 mm
<b>Weight</b>	19 kg Net	14,5 kg Net

Specifications are subject to change without notice. Weight and dimensions shown are approximate. HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)  
TX-32LXD60 Declaration of Conformity No 3700, 10th August 2005  
TX-26LXD60 Declaration of Conformity No 3699, 10th August 2005  
TX-23LXD60 Declaration of Conformity No 3698, 10th August 2005



# SPECIFICATIONS

	<b>TX-23LXD60</b>	
<b>Power Source</b>	220 - 240V A.C., 50 Hz	
<b>Power Consumption</b>	Average use : 100 W Standby condition : 0,8W (Without DVB recording) 10W (TV + DVB system set to record Timer programmes).	
<b>LCD</b>	Wide XGA (1,366 x 768 pixels) 16:9 aspect ratio LCD panel	
<b>Screen Size (Visible diagonal)</b>	58 cmV	
<b>Audio output</b>	2 x 3 W	
<b>Headphones</b>	M3 (3,5 mm) Jack x 1	
<b>Receiving Systems/ Band name</b>	<b>PAL I</b> <b>PAL 525/60</b> <b>DVB</b> <b>M.NTSC</b> <b>NTSC (AV input only)</b>	UHF E21-68. Playback of NTSC tape from some PAL Video recorders (VCR). Digital terrestrial services via UHF aerial input. Playback from M.NTSC Videorecorders (VCR). Playback from NTSC Videorecorders (VCR).
<b>Aerial - Rear</b>	UHF	
<b>Operating Conditions</b>	Temperature: 5°C–35°C Humidity: 5%–90% RH (non–condensing)	
<b>Teletext pages</b>	500	
<b>Connections Rear</b>	<b>AV1</b> – 21 pin socket – Audio / Video in / out, RGB in, Q–Link <b>AV2</b> – 21 pin socket – Audio / Video in/out, S–Video in, RGB in, Q–Link. Component Y, Pb, Pr, Audio L+R 2 x RCA HDMI 1,2 Type A Connector	
<b>AV - Side panel</b>	<b>AV3</b> - S–Video in, RCA Audio / Video in.	
<b>Dimensions (inc. TV stand) (W x H x D)</b>	565 mm x 450 mm x 260 mm	
<b>Dimensions (TV set only) (W x H x D)</b>	565 mm x 411 mm x 115 mm	
<b>Weight</b>	10 kg Net	

Specifications are subject to change without notice. Weight and dimensions shown are approximate.

## Sales and Support Information

### Customer Care Centre

- For customers within the UK: **08705 357357**.
- For customers within the Republic of Ireland: **01 289 8333**.
- Visit our website for product information
- E-mail: **customer.care@panasonic.co.uk**

### Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday–Thursday 9:00am–5:30pm, Friday 9:30am – 5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at **www.panasonic.co.uk**.
- Most major credit and debit cards accepted.
- All enquiries, transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

*Interested in purchasing an extended guarantee*

*Please call 0870 240 6284 or visit [WWW.Panasonic.co.uk/guarantee](http://WWW.Panasonic.co.uk/guarantee)*

## **Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)**



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### **For business users in the European Union**

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### **Information on Disposal in other Countries outside the European Union**

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

**Panasonic (U.K.) Ltd**  
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Berks RG12 8FP