INTEGRATED DIGITAL TV

GUVCD2800

Helpline No: 0870 9201101

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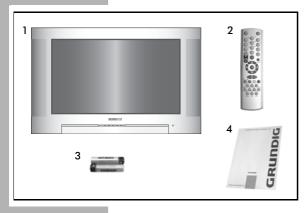
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INTEGRATED DIGITAL TV

Special features of your TV

- Real flat, 28" widescreen
- Integrated Digital Television (DVB-T)
- 100 channels with auto programming system (APS)
- Two Scart sockets plus AV inputs accessible at the front
- PAL and NTSC playback
- Nicam stereo sound system
- Teletext (Fastext and Toptext)
- Sleep timer
- Child lock

Scope of delivery



- 1 IDTV
- 2 Remote control
- **3** 2 x batteries, 1.5V, type AAA
- 4 User guide

SET-UP AND SAFETY

Please note the following information when setting up your TV.

This TV is designed to display video and audio signals from multiple external devices, e.g. DVD player, external aerial, PC. Connection options are explained fully on page 9of this user guide.

Do not connect any other equipment while the device is switched on. Switch off the other equipment as well before connecting it. Only plug the device into the mains socket after you have connected the external devices.

If the TV is subject to a sudden change in temperature, for example if it is brought in from the cold to a warm room, connect it to the mains supply and let it stand for at least two hours before you turn it on.

The TV is designed for use in dry rooms. If you do use it in the open, please ensure that it is protected from moisture, such as rain or water splashes.

Place the TV on a hard, level surface. Do not place any objects such as newspapers on the TV or any cloth or similar articles underneath it.

Do not place the TV close to heating units or in direct sunlight, as this will impair cooling.

Never open the TV casing under any circumstances. Warranty claims are excluded for damage resulting from improper handling.

Do not place any vessels filled with liquid, such as vases, on the TV, as they may spill liquid, thus presenting a safety risk.

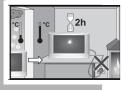
Thunderstorms are a danger to all electrical devices. Even if the TV is switched off, it can be damaged by a lightning strike to the mains. Always remove the mains plug during an electrical storm.

To clean the TV, disconnect from the power supply then wipe all external surfaces with a soft, damp (not wet) cloth. Do not use liquid or aerosol cleaners.

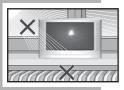
This TV is designed to the highest technological and environmental standards. Only environmentally-friendly, high-quality materials have been used. The batteries included contain no mercury or cadmium. The range of materials used has been deliberately restricted and all the larger plastic parts have been labelled. This TV is designed so that it can be easily disassembled to aid servicing and recycling.

Recycle unwanted materials instead of disposing of them as waste. All packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

All electrical and electronic equipment must be disposed of in an environmentally protective way. When your TV has reached the end of its useful life, check with your local authority for the correct disposal method.







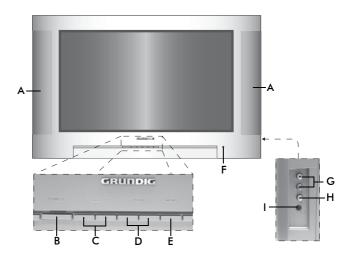






OVERVIEW

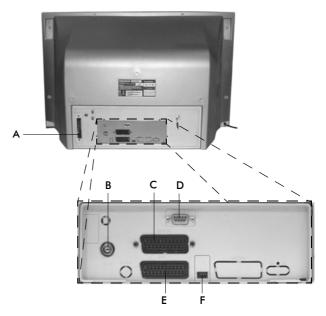
The front of the TV



- A Speakers
- B POWER Power on/off
- **C** Volume adjust buttons. Also used to move left and right whilst navigating on-screen menus.
- D P/CH + Program/Channel down and up buttons. Also used to move down and up whilst navigating on-screen menus.
- **E MENU** Opens and exits the on-screen menus.
- F Remote Sensor.
- G Audio left and right inputs
- H Video input.
- I Headphones socket.

OVERVIEW

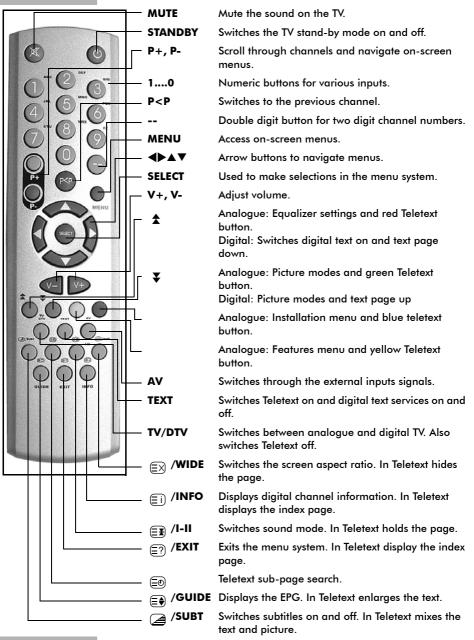
The back of the TV



- A CI Common Interface slot (described on page 24)
- B ANT Antenna (75 ohm)
- C EXT.2 Scart socket 2 (with S-Video)
- D CONTROL RS232 socket used for servicing only.
- E EXT.1 Scart socket 1
- F Service port not used

OVERVIEW

The Remote Control



CONNECTION AND PREPARATION

Note:

Do not connect any other equipment while the device is switched on. Switch off the other equipment as well before connecting it. Only plug the device into the mains socket after you have connected the external devices.

The only connection you need to make in order to start viewing broadcast television programmes is an external aerial connected to the RF IN socket.

You can also connect a wide range of audio and video equipment to your TV.

Connector		Purpose
0	RF IN	Receives TV signals from an external aerial.
	EXT1	Scart socket 1. Receives a complete AV (Audio Visual) signal.
	EXT2	Scart socket 2. Receives a complete AV (Audio Visual) signal. Also can be configured to receive S-Video.
		Can be configured to output any of the input signals, i.e. analogue TV, signal on EXT1 , digital TV or front AV.
(Yellow)	AV VIDEO	Receives video signal only (no audio).
(White)	AV AUDIO (LEFT)	Receives audio signals to the left audio channel only.
(Red)	AV AUDIO (RIGHT)	Receives audio signals to the right audio channel only (not for PC use).

The following table lists a range of the available connectors on the TV.

You can connect DVD player/recorders and video cassette recorders (VCRs) to the Scart connectors.

The RCA AV inputs are located on the side of the TV so that portable devices such as camcorders can be connected temporarily.

Note: If you connect a VCR and the picture is unstable when a tape is played you need to set the VCR Mode on, please see "VCR Mode" on page 31.

CONNECTION AND PREPARATION



Installing the Remote Control Batteries

Remove the battery compartment cover by squeezing the slot and lifting clear.

Insert the two AAA batteries supplied following the polarity markings inside the battery compartment (see opposite).

Replace the battery compartment cover.

SWITCHING ON FOR THE FIRST TIME

When you switch the TV on for the first time it will be in the digital TV mode. You will first need to tune the digital TV channels then the analogue TV channels as described in the sections following.

NOTE: Unless stated otherwise the following procedures use the controls on the remote control.

To Switch the TV On

Your TV requires a mains supply of 230 to 240V AC, 50Hz. Do not connect to any other supply.

- 1. Plug the TV into the mains supply and switch the socket on.
- 2. Press the **POWER** button on the front of the TV. A blue indicator will light behind the switch to show that the TV is in standby.
- 3. Press any of the digit buttons, the P+ or P- to switch the TV on.

To Switch the TV Off

Press the standby button on the remote control. The TV will switch off, however the blue indicator remains on to show that power is still present.

To switch the TV off completely press the **POWER** button on the front of the TV.

TV Tuning



When you switch on for the first time the TV will be in the digital mode and the message shown opposite will be displayed.

With the 'Yes' option highlighted press **SELECT**. The TV will commence the search for digital channels. The menu below will be displayed which lists the channels as they are found and also shows the progress of the search.

Channels:		
BBC 6 Music		
BBC 7		
1Xtra BBC BBC Asian Net.		
301		
302		
303		
Community		
Searching UHF Ch	nnel 29, Please wait. This will take a few mi	nutes.
16%		
10 /0		

Do you want to search for analogue channels? Yes No WARNING ALL PRESTORED PROGRAMMES WILL BE ERASED COUNTINUE TV : CANCEL UK CONTINUE TV : CANCEL NAME 03 C 30 CH 4 V : CANCEL

SWITCHING ON FOR THE FIRST TIME

When the search for digital channels has completed the message shown opposite is displayed.

With the 'Yes' option highlighted press **SELECT** to commence the search for analogue TV channels.

The menu opposite will be displayed. The 'COUNTRY' field will be highlighted and defaults to 'UK', however, if you are located in another country use the \blacktriangleleft and \triangleright buttons to select your location. The country selection affects the sorting process for the analogue TV channels.

Press ▼ to highlight 'CONTINUE' then **SELECT** to commence the search for analogue channels. The menu opposite will be displayed.

Once the search is complete the 'PROGRAM' menu will be displayed as shown below. The channels will be listed with their default names and sorted into the normal order. If you wish to change the order or the channel names refer to "Rearranging the Channels" on page 37.

PROGRAM		
01 BBC1	11	21
02 BBC2	12	22
03 ITV	13	23
04 CH 4	14	24
05 CH 5		25
06	16	26
07	17	27
08	18	28
09	19	29
10	20	30
NAME	INSE	RT
DELETE	AUTC	OSTORE

If you wish to view a list of the digital channels found during the tuning process press the **TV/DTV** button to switch to the digital channels, press **MENU** then **SELECT**. The digital channel list will be displayed as shown below. Use the $\mathbf{\nabla}$ and $\mathbf{\Delta}$ buttons to scroll the list.



BASIC OPERATION

Selecting the Signal Source

Analogue/Digital Channels

To switch between the analogue and digital TV channels press the ${\bf TV}/$ ${\bf DTV}$ button.

External Sources

If you have connected any external signal sources such as a DVD player or VCR then repeatedly press the AV button until the right source is selected. The sources are selected in the following order:

Scart Scart Scart Front Digital Analogue Socket 1 Socket 2 Socket 2 AV Sockets TV TV S-Video

Note: If you connect a VCR and the picture is unstable when a tape is played you need the set the VCR Mode on, please see "VCR Mode" on page 31.

Changing Channels

You can use the P+ and P- buttons or enter the channel number directly with the numeric buttons. When using the numeric buttons press the double digit button first for channel numbers higher than 9.

P<P

Press the P < P button to swap between the channel you are watching and the last selected channel.

Volume

Press the **V+ and V-** buttons on the TV or remote control. A sound level bar will appear on the screen.

Mute

Press the **MUTE** button to switch off the sound output. The mute symbol will appear on the screen in the top left corner of the screen.

Press the **MUTE** button again to restore the sound. The mute symbol will disappear.

Note:

Pressing either of the volume buttons will also restore the sound.











USING THE DIGITAL TV

Pr Pr Pr

Information Banner

Whenever you change channels by pressing P+, P- or numeric buttons the information banner will be displayed, as shown below, for approximately 3 seconds.

Now:	To Buy or Not to Buy	09:15-10:00
Next:	Escape to the Country	10:00-11:00
		Signal Level:
1.	BBC ONE	09:51

The information banner shows the now and next programmes and their times for the selected channel. It also shows the current time and the signal strength for the selected channel.

If the channel has been set as a favourite channel (see "Setting Favourites" on page 19) the smiley face icon, (1), will be displayed.

If the channel has been locked (see "Adding Locks to Channels" on page 18) you will need to enter the 4-digit lock key.

The information banner can be displayed at any time by pressing **INFO**.

Electronic Programme Guide (EPG)

Press the **GUIDE** button to display the EPG.





The channels are listed in the lower half of the EPG. A brief description of the current programme for the highlighted channel is given in the window above. To change the channel use the ∇ and \blacktriangle buttons. You can also press the \bigstar and \clubsuit buttons to page up and down.

To change the thumbnail view to the selected channel press the **SELECT** button.

To select the next programme for the highlighted channel use the \blacktriangleright button.





USING THE DIGITAL TV



To set a reminder for the next programme press the **SELECT** button. A clock icon will appear beside the programme title. When the programme is about to start a message will be displayed asking if you wish to change the channel.

7 Day EPG

If you press the **MENU** button while the EPG is displayed, the 7-day EPG will open as shown below.

ELECTRONIC PROGR	AMME GUIDE (Now/Next)	WED 31/5 09:47
To Buy or Not to Buy		09:15-10:00
Simon Rimmer and Sarah Walker help sisters Jackie and Tina find a bigger home for Jackie near to her family business. [S]		
Channels	Programmes on Wed 31/5, 09:00 -	11:00
1. BBC ONE	06:00 Breakfast	
2. BBC TWO 3. ITV1	To Buy or Not to Buy (Now)	
4. Channel 4	10:00 Escape to the Country	
5. five		
6. ITV2		
7. BBC THREE		

The 7 day EPG will list the channels and programmes in the lower half of the menu and gives a brief description of the highlighted programme in the upper half. The starting time for the EPG is the current time. The event information for the next two hours for the highlighted channel will be displayed

To change the channel use the \triangledown and \blacktriangle buttons. You can also press the \bigstar and \blacktriangledown buttons to page up and down.

To select the programme list for the highlighted channel use the \blacktriangleright button. With the programme list selected you can use the \blacktriangledown and \blacktriangle buttons to go to the next/previous hours.

Alternatively, use the Red and Green buttons to change the schedule time.

Use the Yellow and Blue buttons to change the schedule day.

To set a reminder for a programme press the **SELECT** button. A clock icon will appear beside the programme title. When the programme is about to start a message will be displayed asking if you wish to change the channel.

Subtitles

To display subtitles press the **SUBT** button.

To switch subtitles off, press the SUBT button again.







USING THE DIGITAL TV

Interactive services cannot be used while subtitles are on. Would you like to turn subtitles off now?

Yes No

If you wish to use the interactive text services you will need to switch subtitles off. If you press the **TEXT** button while subtitles are on, the message shown opposite is displayed.

Digital Text

To display the digital text service press the **TEXT** button.

Use the arrow and coloured buttons on the remote control to search for the information you require as directed on the text pages.

To remove the text display, press **TEXT** again.

Screen Aspect Ratio

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of screen formats. Press the **WIDE** button repeatedly to select between: Auto, 4:3, 16:9, CINEMA, SUBTITLE, ZOOM or PANORAMA.

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

In some settings you may notice black borders either to the sides or above and below the picture. This is normal.

Over Air Download

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

If you want the TV to automatically update, set the Automatic Download to Enabled in the Receiver Upgrade setting, see "Receiver Upgrade" on page 21.



Main Menu

Press the **MENU** button. The main menu will be displayed as shown opposite.

To navigate the menu system use the arrow buttons and the **SELECT** button.

Channel List

When the Main Menu is displayed 'Channel List' will be highlighted.

Press **SELECT** to display the Channel List as shown below.



In the Channel List you can perform the following:

- Navigate and select channels
- Delete channels from the list
- Rename channels
- Lock channels
- Set up favourite lists

Press the **INFO** button at any time in the Channel List to display a help menu.

Navigating and Selecting Channels

When the Channel List is displayed the channel that was being viewed will be highlighted and shown in the thumbnail.

Use the \blacktriangle and \bigtriangledown buttons to highlight the channel. You can also use the \bigstar and \clubsuit buttons to page up and down the list.

To view the highlighted channel in the thumbnail, press the **SELECT** button.

To exit the Channel List and view the selected channel, press the **MENU** button again.

Main Menu

Channel List Installation Configuration Timers Language TV Setup Common Interface

Deleting Channels from the List

Highlight the channel in the list that you wish to delete.



Press the \blacktriangleright button to highlight 'Delete' and press **SELECT**. The menu shown opposite will ask you to confirm the delete action.

Once you delete a channel it will no longer be available. The only way you will be able to view the channel is to go to the Installation menu and search for the channel, see "Adding New Channels" on page 19.

With Yes highlighted press **SELECT**. The channel will be removed from the list.

Renaming Channels

Highlight the channel in the list that you wish to rename.

Press the \blacktriangleright button to highlight 'Edit Name' and press **SELECT**. A text field opens below the thumbnail picture as shown below. The existing name will appear in the text field with the first letter of the name in brackets. This is the letter that will be changed. To select other characters in the name use the \blacktriangleleft and \blacktriangleright buttons. The brackets will move to the selected character.



To change the character use the $\mathbf
abla$ and $\mathbf abla$ buttons.

When you have finished editing the name, press the **SELECT** button.

Adding Locks to Channels

You can add locks to selected channels. A locked channel will require entry of the 4-digit lock key before viewing. The 4-digit lock key is initially set to '0000'. To change the lock key see "Set Lock Key" on page 22.

Highlight the channel that you wish to lock.

Press the ▶ button to highlight 'Lock' and press **SELECT**. The enter lock key request will be displayed.

Use the numeric buttons to enter the lock key. The padlock symbol, $\widehat{\uparrow}$, will be displayed next to the selected channel.

To cancel the lock, repeat the procedure.

Setting Favourites

You can add channels to a favourites list. When the Favourite Mode is switched on, see "Favourite Mode" on page 21, only those channels designated as favourites will be available when using the **P+** and **P-** buttons.

Press the ▶ button to highlight 'Favourites'.

Highlight the channel that you wish to designate as a favourite and press **SELECT**. The smiley face icon, $\textcircled{}{}$, will appear next to the channel name in the list.

Repeat this procedure for each channel that you wish to add to the list.

To remove a channel from the favourites list repeat the procedure.

Installation

The Installation menu enables you to search for new services or to perform a complete search as in the first time installation.

Press the **MENU** button to display the Main Menu. Press the \checkmark button to highlight 'Installation' then press **SELECT**.

The menu shown opposite will be displayed giving you the option to either add new channels or to perform the first time installation.

The first time installation will restore the factory default settings and remove all existing channels. The process is as described in "TV Tuning" on page 11.

Adding New Channels

With Add New Channels highlighted press the button. Two options will appear, Automatic Search or Manual Search. Automatic search will erase all existing channels. Manual search will search for a particular channel.

Use the \checkmark and \blacktriangle buttons to highlight the option you require then press **SELECT**.

Automatic Search

The automatic search will create a new channel list automatically.

Installation Add New Channels First Time Installation

Manual Search

When manual search is selected the menu below will be displayed.

MANUAL SEARCH
Channel Number: 27
Signal Quality: Medium
Signal Level:
9 Value entry SELECT Search MENU Exit
O O Value entry SELECT Search MENU Exit O More

The digital TV signal is made up of a number of multiplexed signals and each of these signals will carry a number of channels. Use the numeric buttons to enter the channel number that you wish to search for then press **SELECT**. All the channels found in the appropriate multiplex signal will be listed and stored then the TV will return to its previous channel.

Configuration

Press the **MENU** button to display the Main Menu. Press the ▼ button to highlight 'Configuration' then press **SELECT**. The Configuration menu will be displayed as shown below.



Audio Language

Digital TV channels can be broadcast with a number of simultaneous language soundtracks. This option enables you to select the soundtrack language. The default language is English.

With 'Audio Language' highlighted use the \blacktriangleleft and \blacktriangleright buttons to cycle through the available options.

Subtitle

Digital TV channels can be broadcast with a number of simultaneous subtitle languages. This option enables you to select whether subtitles are on or off and, when on the language displayed. The default is Off.

With 'Subtitle' highlighted use the \blacktriangleleft and \blacktriangleright buttons to cycle through Off and the available options.

Favourite Mode

This option enables/disables the favourite channel list mode, see "Setting Favourites" on page 19.

With 'Favourite Mode' highlighted use the \blacktriangleleft and \blacktriangleright buttons to set the mode on or off. The default is Off.

When set to on only the channels designated as favourites will be available when the P+ and P- buttons are used.

EPG Preference

The EPG can be displayed in one of two modes either Now&Next or 7-Day, see "Electronic Programme Guide (EPG)" on page 14. the default is Now&Next.

With 'EPG Preference' highlighted use the \blacktriangleleft and \blacktriangleright buttons to select either Now&Next or 7-Day.

Receiver Upgrade

The digital receiver software can be upgraded either automatically or manually.

Automatic Download Enabled Scan for New Version

With 'Receiver Upgrade' highlighted press **SELECT**. The two options will be displayed as shown opposite.

Automatic Download

Use the ◀ and ▶ buttons to set the automatic download to enabled or disabled. When enabled the unit will automatically search for new software versions each time the unit is switched to standby and, provided it is left in the standby mode, at 03:00 am each morning.

Search for New Version

This is the manual search for new software versions.

Press the ▼ button to highlight 'Scan for New Version' and press SELECT. The search progress will be displayed.

Parental Settings

This function enables you to lock the menu system so that the 4-digit lock key must be entered before the menus can be accessed. You can also change the 4-digit lock key.

Selected channels can also be locked in the Channel List as described in "Adding Locks to Channels" on page 18.

Menu Lock



With 'Parental Settings' highlighted press **SELECT**. You will be asked to enter the 4-digit lock key. This is initially set to '0000'. The menu shown opposite will be displayed.

You can set the Menu Lock to one of the following:

- Disabled All menus are unlocked.
- Main Menu The Main Menu and therefore all menus accessed from the Main Menu are locked.
- Installation The Installation menu is locked so new channels cannot be added.

Changes are implemented after you exit the Configuration menu.

Set Lock Key

Use the ▼ button to highlight 'Set Lock Key' and press **SELECT**. An additional menu will open as shown opposite.

Enter your new 4-digit lock key. Then confirm it to make the change.

Timers

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

-	
Lock	
Confirm	

Press the **MENU** button to display the Main Menu. Press the ▼ button to highlight 'Timers' then press **SELECT**. The Timer menu will be displayed as shown below.

TIMER MENU				
No Channel Name	Start	End	Date	Mode
1. BBC ONE 2. BBC ONE 3. BBC ONE 4. BBC ONE 5. BBC ONE	00:00 00:00 00:00 00:00 00:00	00:00 00:00 00:00 00:00 00:00	01/01/2006 01/01/2006 01/01/2006 01/01/2006 01/01/2006	Inactive Inactive Inactive Inactive Inactive
				13:20 23/03/2006
Toggle Mode Exit SELEC	🗩 Edi	t Timer		i More

To set an event use the \checkmark and \blacktriangle buttons to select the event number you wish to use and press **SELECT**. The Timer entry window will be displayed as shown opposite.

The channel name field will be highlighted. Use the ◀ and ▶ buttons to select the channel you wish to switch to.

Press the ▼ button and use the numeric buttons to enter the start time.

Press the $\mathbf{\nabla}$ button and use the numeric buttons to enter the end time.

Press the $\mathbf{\nabla}$ button and use the numeric buttons to enter the date in dd/mm/yyyy format.

Press the \checkmark button and use the \triangleleft and \triangleright buttons to select the frequency, i.e. Once, Daily (the same time every day) or Weekly (the same time on the same day of the week).

Press **SELECT** to store the settings then **MENU** to exit the menu system.

Note: The TV must be on for the timer event to occur.

Language

Digital TV channels can be broadcast with a number of simultaneous language soundtracks. This option enables you to select the soundtrack language. The default language is English.

In the Main Menu press the $\mathbf{\nabla}$ button to highlight 'Language' then press **SELECT**. The language options will be displayed.

Use the $\mathbf{\nabla}$ button to highlight the option you require then press **SELECT**.

Name: Start: End: Date: Mode:

3. BBC C 00:00 00:00 23/03/200

TV Setup

The TV setup menus allow you to set the picture, sound and features. These settings are common to both the digital TV and the analogue TV and are described in "Analogue TV Menus" on page 27.

Common Interface

You can access additional channels (pay per view) by purchasing a TV upgrade module, e.g. Top Up TV (also called a Conditional Access Module, CAM). These comprise a module that fits into the Common Interface slot on the TV and a card with a chip that fits into the module.

Top up modules are available from most electrical suppliers.

To install the module switch off the TV at the wall socket.

Follow the instructions supplied with the module to remove it from its packaging and prepare it for installation.

Insert the module with card into the Common Interface slot. It will only go in one way.

Switch the TV on to initialise the module.

Follow the instructions supplied with the module to activate the card.

Some CAMs may need to be set up in the menu system. From the Main Menu highlight 'Common Interface', press **SELECT** and follow the instructions.

Note: You will not be able to view additional channels until you have activated the card. The activation process can take up to 30 minutes.

USING THE ANALOGUE TV

Changing channels and adjusting the volume are as described in "Basic Operation" on page 13.

Teletext

Teletext is an information system that displays text on the TV screen.

The menu system is not available in text mode, however, the volume controls will still operate.

To Operate Teletext

Select a TV channel that broadcasts teletext and press the **TEXT** button.

To Select a Page

If you know the number of the page you require use the numeric buttons to enter the number. The number is displayed in the top left corner of the screen. The page counter searches until the selected page number is located and displayed.

Press the \blacktriangle button to go to the next page and the \triangledown button to go to the previous page.

Selecting the Index

To select the index page press the (i) button.

Holding a Text Page

Some text pages have a number of subpages. In these cases the subpages will cycle approximately every minute. To hold a page so that it does not cycle press the $(\exists t)$ button. To cancel the hold press the $(\exists t)$ button again.

Fastext

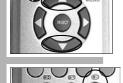
Fastext enables you to quickly access the more commonly viewed pages such as News, Sport, Weather etc.

At the bottom of the text page there will be a 4 different coloured subject headings. Press the coloured button that corresponds to the subject you require.

TOP text

Note: TOP text is not used in the UK. If you are using the TV outside the UK and if TOP text is provided, colour coded buttons will be displayed automatically. These operate in a similar way to the Fastext buttons. There will also be a special page available called HITLIST which is displayed when the \equiv button is pressed. Use the colour buttons on the HITLIST to link to other text pages.







USING THE ANALOGUE TV

Teletext/Programme Mix

To view teletext and the TV programme press the mix button, 🧷.

The view the text page only press the button again.

Searching for Pages While Viewing TV

Enter the page number you require then press the button. The TV picture will be displayed and there will be a flashing icon in the top left corner of the screen. When the page is found the page number will replace the flashing icon. Press the button to display the text page.

To Select Double Height Text

If the text is too small to read you can double the height by pressing the e button. The top half of the page is displayed double its normal size.

To view the bottom half press the $\textcircled{\Rightarrow}$ button again.

To return to normal size text press the $\textcircled{\Rightarrow}$ button a third time.

To Reveal Information

Some pages may have concealed information, e.g. the answers to quizzes or games.

To reveal concealed information press the 🖃 button.

To conceal the information press the 🖃 button again.

Selecting a Subpage

Some text pages comprise a number of subpages. You can search for a specific subpage.

Select the text page required then press the 🖃 button. The subpage number will be displayed.

Enter the subpage number you require, all 4 digits must be entered so if you require subpage 12 for example, press 0012.

Searching for subpages can take time so you can view the TV while you wait as described in "Searching for Pages While Viewing TV" on page 26.

To Exit Teletext

To exit teletext press the TV/DTV button.

To Display the Time

To display the clock while watching a TV channel that has a teletext broadcast press the error button. The clock will be displayed in the top right corner of the screen.





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Main Menu

Press the MENU button. The main menu will be displayed as shown opposite.

To navigate the menu system use the \vee and \blacktriangle buttons to highlight a menu then the \triangleright button to open the menu.

Note: The PICTURE, SOUND and FEATURE menus are common to both the analogue and digital TV receivers.

Some of the menus can be opened by pressing the appropriate button on the remote control as listed below:

INFO button	Opens the Program menu
Blue button	Opens the Installation menu
Yellow button	Opens the Feature menu
Green button	Opens the Picture menu
Red button	Opens the Equalizer menu

Sound Menu

When the Main Menu is displayed 'SOUND' will be highlighted.

Press the ▶ button to display the Sound menu as shown below.

SOUND	
VOLUME BALANCE SOUND MODE AVL EFFECT BASS EFFECT EQUALIZER H. PHONE	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

The scroll bar on the right indicates that there are more options than those displayed.

When all the sound settings have been made, use the \checkmark button to highlight 'STORE' then press either \blacktriangleleft or \triangleright to store the settings and return to the main menu.

Volume

This sets the default volume level that will be used whenever the TV is switched on.

When the Sound menu is displayed 'VOLUME' will be highlighted. Use the \blacktriangleleft and \blacktriangleright buttons to change the setting.

MENU	
SOUND	
PICTURE	
FEATURE	
INSTALLATION	
PROGRAMME	

Balance

Press the \checkmark button to highlight 'BALANCE' then use the \triangleleft and \triangleright buttons to balance the sound between the left and right speakers.

When the balance is set midway the cursor is displayed as two arrows as shown above.

Sound Mode

Press the ▼ button to highlight 'SOUND MODE' then use the ◀ and ▶ buttons to change the mode.

In analogue TV the options are STEREO and MONO. In digital TV there are additional options DUAL-I and DUAL-II. these can be used to select optional bilingual sound broadcasts.

Note: The sound mode options are also available using the **I-II** button on the remote control.

AVL

Automatic Volume Limiting (AVL) adjusts the sound to obtain a fixed output level between channels that have different volume levels.

Press the \checkmark button to highlight 'AVL' then use the \triangleleft and \triangleright buttons to set AVL either on (box ticked) or off (no tick).

Effect

If the sound mode is set to Stereo, Dual-I or Dual-II the Effect will reduce the volume of the higher and lower frequencies.

In the sound mode is set to Mono the effect will simulate a stereo sound.

Press the \checkmark button to highlight 'EFFECT' then use the \triangleleft and \triangleright buttons to set the effect either on (box ticked) or off (no tick).

Bass Effect

The Bass Effect enhances the lower frequencies of the sound output.

Press the \checkmark button to highlight 'BASS EFFECT' then use the \triangleleft and \triangleright buttons to set the bass effect either on (box ticked) or off (no tick).

Equalizer

The equalizer enhances certain frequency bands of the sound to suit the type of sound broadcast. The TV has a number of preset equalizer settings and a custom option that allows you to set the level of each frequency band.

Press the \checkmark button to highlight 'EQUALIZER' then press the \triangleright button to open the EQUALIZER menu as shown below.

EQUALIZER	
100 HZ	< ▶
300 HZ	
1000 HZ	۲ <u>۲</u>
3000 Hz	۲ ()
8000 HZ	۲ ک
PRESET	PERSONAL
STORE	

With 'PRESET' highlighted you can scroll through the preset equalizer settings using the \triangleleft and \blacktriangleright buttons. These are: **PERSONAL** (you set the levels), **MULTIMEDIA**, **MUSIC**, **THEATRE** and **SPEECH**.

If PERSONAL is selected you can use the \checkmark and \blacktriangle buttons to select the frequency band then the \blacktriangleleft and \blacktriangleright buttons to adjust the level.

Note: If you adjust the level of any of the frequency bands the preset will automatically change to PERSONAL.

Headphones

The sound settings for the headphones output are in a separate menu. Press the \checkmark button to highlight 'H. PHONE' then press the \blacktriangleright button to open the H. PHONE menu as shown below.

H. PHONE		
VOLUME BALANCE SOUND MODE STORE	4 ANNE 4 ANNE STEREO	

The settings are carried out in the same way as for the sound menu described on page 27.

Storing the Sound Settings

When all the sound settings have been made, use the \checkmark button to highlight 'STORE' then press either \blacktriangleleft or \triangleright to store the settings and return to the main menu.

Picture Menu

In the Main Menu press the ▼ button to highlight 'PICTURE'

Press the ▶ button to display the Picture menu as shown below.

PICTURE	
BRIGHTNESS	A
CONTRAST	A
COLOUR	A
SHARPNESS	A
TILT	A
PICTURE MODE	PERSONAL
COLOUR TEMP	NORMAL
VNR	AUTO

Brightness, Contrast, Colour and Sharpness

These can be highlighted using the \lor and \blacktriangle buttons and adjusted using the \blacktriangleleft and \blacktriangleright buttons.

Note: If you are viewing an NTSC input signal from say a DVD or VCR for example, there will also be a **Hue** option in the Picture menu. This allows you to change the colour tint of the picture. DVDs and videos in the UK are recorded using the PAL system so the Hue option is not normally available.

Tilt

This function is used for tilt correction of the picture.

Highlight 'TILT' using the \checkmark and \blacktriangle buttons and adjust the tilt correction using the \blacktriangleleft and \blacktriangleright buttons.

Picture Mode

The picture mode can be set to PERSONAL, SPORT, MOVIE, or WEAKSIGNAL.

Note: If any of the brightness, contrast, colour or sharpness settings are changed the picture mode will automatically change to PERSONAL.

Use the ▼ and ▲ buttons to highlight PICTURE MODE and the ◀ and ▶ buttons to change the setting.

Note: The picture mode can also be changed by pressing the green button on the remote control.

Colour Temperature

This function changes the white colour tint. It can be set to WARM, COOL or NORMAL.

Use the \triangledown and \blacktriangle buttons to highlight 'COLOUR TEMP' and the \triangleleft and \triangleright buttons to change the setting.

Video Noise Reduction (VNR)

This function is used to reduce the image noise and improve the picture quality of weak signals. It can be set to OFF, MIN, AUTO or MAX.

Use the \triangledown and \blacktriangle buttons to highlight 'VNR' and the \blacktriangleleft and \triangleright buttons to change the setting.

ZOOM

The zoom function changes the aspect ratio of the picture. It can be set to: AUTO, 4:3, 16:9, CINEMA, SUBTITLE, ZOOM and PANORAMA.

Some broadcast signals will contain a WSS (wide screen signal) which describes the aspect ratio of the picture. If the AUTO setting is used the TV will decode the WSS and set the aspect ratio accordingly.

Use the \checkmark and \blacktriangle buttons to highlight 'ZOOM' and the \triangleleft and \blacktriangleright buttons to change the setting.

VCR Mode

Note: This menu option will only be displayed if you have connected a VCR to one of the Scart connectors, a video tape is loaded and playing.

If when you are watching a video tape playback from your VCR the picture is unstable, press MENU then use the \checkmark and \blacktriangle buttons to highlight 'VCR MODE' and either the \blacktriangleleft or \triangleright button to set the mode to ON.

Storing the Picture Settings

When all the picture settings have been made, use the \checkmark button to highlight 'STORE' then press either \blacktriangleleft or \triangleright to store the settings and return to the main menu.

Feature Menu

In the Main Menu press the ▼ button to highlight 'FEATURE'

Press the ▶ button to display the Feature menu as shown below.

FEATURE	
SLEEP TIMER CHILD LOCK COUNTRY IXYT LANGUAGE LANGUAGE EXT-2 OUTPUT BLUE BACKGRND	OFF UK ENGLISH ENGLISH DTV ☑

Sleep Timer

The sleep timer can be set to automatically switch the TV to standby after a selected period.

When the FEATURE menu is opened 'SLEEP TIMER' will be highlighted. Use the \triangleleft and \triangleright buttons to select the period. The options are OFF, 5, 10, and in 5 minute increments up to 120 minutes.

The timer will start immediately and when finished will set the TV to standby.

Child Lock

The child lock disables the controls on the front of the TV except for the POWER on/off button. The TV can only be controlled by the remote control.

With the FEATURE menu open press the \checkmark button to highlight 'CHILD LOCK' will be highlighted. Use the \triangleleft and \blacktriangleright buttons to set the child lock either on or off.

Country

The country setting affects the way the analogue channels are sorted after tuning. The default setting is UK.

If you wish to change the setting to another country press the \checkmark button to highlight 'COUNTRY' and use the \triangleleft and \triangleright buttons to select the required country.

Text Language

Some text characters display differently depending on the source of the information. The Teletext language defaults to ENGLISH. If you wish to change the setting to another language press the \checkmark button to

highlight 'TXT LANGUAGE' and use the \blacktriangleleft and \blacktriangleright buttons to select the required language.

Menu Language

The language used for the on-screen menus defaults to ENGLISH. If you wish to change the setting to another language press the \checkmark button to highlight 'LANGUAGE' and use the \blacktriangleleft and \triangleright buttons to select the required language.

EXT-2 Output

The EXT-2 Scart connector can be configured to output one of the TVs signals, i.e. it can output:

- The analogue TV signal
- The signal input on the EXT-1 Scart
- The digital TV signal
- The signal input on the front AV connectors

Press the \checkmark button to highlight 'EXT-2 OUTPUT' and use the \triangleleft and \triangleright buttons to select the required signal output.

Blue Background

When this feature is set to on and no signal is detected a blue screen is displayed as opposed to the normal black and white noise. During the search process the blue background is not active, however, the semi-transparent menu back ground is made blue

Press the ▼ button to highlight 'BLUE BACKGRND' and use the ◀ and ▶ buttons to set the feature on or off.

Storing the Picture Settings

When all the feature settings have been made, use the \checkmark button to highlight 'STORE' then press either \blacktriangleleft or \triangleright to store the settings and return to the main menu.

Installation Menu

Note: This menu is only available in analogue TV mode.

The tuning process performed when you switch on for the first time as described in "TV Tuning" on page 11, will find all of the available channels and store them in the normal order.

The Installation menu can be used to manually tune specific channels or fine tune existing channels.

In the Main Menu press the ▼ button to highlight 'INSTALLATION'

Press the ▶ button to display the Installation menu as shown below.

Note: You can also enter the Installation menu by pressing the blue button.

INSTALLATION	
PROGRAMME BAND CHANNEL DECODER FINE TUNING SEARCH TUNING MODE STORE	01 C 26 I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

Tuning Mode

You can tune the TV using channel numbers or the frequency of the signal. This is selected in the tuning mode. The methods are essentially the same, for channel mode you define the band and channel number, and for frequency mode the frequency.

Use the \checkmark button to highlight TUNING MODE and use the \triangleleft and \triangleright buttons to select either CHANNEL or FREQUENCY. The menu shown above is for channel tuning mode.

Programme, Band and Channel

When the installation menu is displayed PROGRAMME will be highlighted. Use the \blacktriangleleft and \triangleright buttons to select the programme, i.e. the channel position number on the TV.

Band and Channel (Channel Tuning Mode)

Use the \checkmark and \blacktriangle buttons and the \triangleleft and \triangleright buttons to select the frequency band (C for channels 01 to 17 and 21 to 73, S for channels 01 to 41) and the channel number.

Frequency (Frequency Tuning Mode)

Press the \checkmark button to highlight FREQUENCY and the \triangleleft and \blacktriangleright buttons to select the frequency.

Fine Tuning

If the selected channel has already been tuned it will be displayed. If the reception is poor you can try fine tuning. To fine tune the signal reception use the \blacktriangleleft and \blacktriangleright buttons. The pointer will slide along the bar. When it is set midway the pointer changes to two arrows as shown above.

To store the setting press the \checkmark button to highlight STORE and press either \blacktriangleleft or \blacktriangleright .

Searching

To start a new search for the selected channel use the \checkmark button to highlight SEARCH and press either \blacktriangleleft or \triangleright .

To store the search result press the \triangledown button to highlight STORE and press either \blacktriangleleft or \blacktriangleright .

Decoder

You can set one of the analogue programmes to display the signal input from the EXT-2 Scart connector. For example you could connect a cable TV decoder to EXT-2 and set DECODER on (box ticked) for programme 6. This means that when you select 6 on your remote control you can view the cable TV signal.

Set the programme number you wish to use for the EXT-2 signal then use the \triangledown and \blacktriangle buttons to highlight DECODER and the \blacktriangleleft or \triangleright button to set the decoder on.

Programme Menu

Note: This menu is only available in analogue TV mode.

The tuning process performed when you switch on for the first time as described in "TV Tuning" on page 11, will find all of the available channels and store them in the normal order.

The Programme menu can be used to perform a new search, delete channels, rename and reorder the channels.

In the Main Menu press the ▼ button to highlight 'PROGRAMME'

Press the ▶ button to display the Programme menu as shown below.

Note: You can also enter the Programme menu by pressing the **INFO** button.

PROGRAM		
01 BBC1		21
02 BBC2	12	22
03 ITV	13	23
04 CH 4	14	24
05 CH 5	15	25
06	16	26
07	17	27
08	18	28
09	19	29
10	20	30
NAME	INSE	RT
DELETE	AUTO	OSTORE

Renaming Channels

Use the ∇ and \triangle buttons to highlight the name you wish change and press the red button. The first character will be highlighted. Use the ∇

and \blacktriangle buttons to change the character and the \blacktriangleleft and \triangleright buttons to move to the other character positions. Each name can comprise up to 5 characters.

When the new name has been entered press the red button to store it.

Deleting Channels

If the initial search found channels that you do not wish to use they can be deleted from the list.

Use the \checkmark and \blacktriangle buttons to highlight the channel you wish to delete and press the yellow button. Press the yellow button again to confirm the delete action.

Rearranging the Channels

The order of the channels can be changed. Use the \vee and \blacktriangle buttons to highlight the channel you wish to move and press the green button.

Use the \checkmark and \blacktriangle buttons to highlight the position you want the channel to appear and press the green button again. The selected channel will be inserted into the new position.

Searching for Channels

To perform a complete search for analogue TV channels (AUTOSTORE) press the blue button. A warning message will be displayed stating that all previously stored programmes (analogue only) will be erased.

The country field will default to UK. If you are not in the UK use the ◀ and ▶ buttons to select the country.

Press the \checkmark button to highlight 'CONTINUE' and press **SELECT**. The tuning process may take a few minutes. When finished the Programme menu will be displayed with the channels listed.

TROUBLESHOOTING

Problem	Possible Cause
TV Problems	
The TV does not work.	Make sure that the power supply is connected and that the mains supply is switched on.
Poor picture.	Is the aerial plugged in?
	Try changing the direction of the outdoor aerial. High buildings and hills can cause ghost pictures or double images.
	Check the channel is tuned properly.
	Try adjusting the picture settings; brightness, contrast, colour, sharpness.
	Make sure the TV is not located close to electrical appliances that may emit radio frequency interference.
No TV picture.	Is the aerial plugged in properly?
	Is the aerial lead damaged?
	Are all the plugs in the aerial lead fitted correctly?
	Is the TV in the correct input signal mode?
No sound.	Is the sound muted? Press the Mute button.
	Is the volume turned down?
No colour.	Adjust the colour setting.
	Check the programme is broadcast in colour.
	Check the channel is tuned properly.
No response from the remote control.	Is there an obstruction between the remote control and the sensor on the TV?
	Try changing the battery.
Picture from VCR unstable when a tape is playing.	Set the VCR Mode on, please see "VCR Mode" on page 32.

If none of these solves the problem, switch the TV off then on again.

WARNING:

IF THIS DOES NOT WORK, CONTACT EITHER YOUR SUPPLIER OR A QUALIFIED TV REPAIR TECHNICIAN. NEVER ATTEMPT TO REPAIR THE TV YOURSELF.

Product Suppor	† :
Telephone:	0870 920 1101
Internet:	www.grundig-uk.co.uk

CARE AND MAINTENANCE

Care of the screen

Clean the screen with a slightly damp, soft cloth.

Do not use abrasive solvents or cleaners as they may damage the TV screen coating layer.

Always unplug the TV from the mains while cleaning.

How do I dispose of this product?



When your TV has reached the end of its life, contact your local council regarding available recycling or disposal options. Do not dispose of electrical products in the general waste.

Please ensure that used batteries are disposed of safely.

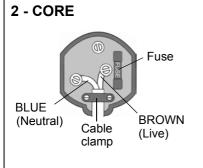
Electrical Information

This appliance is fitted with a BS1363/A 13 amp plug. If it is not suitable for your supply sockets it must be removed and replaced with an appropriate plug. If the plug becomes damaged and/or needs to be replaced please follow the wiring instructions below. The plug removed must be disposed of immediately. It must not be plugged into a supply socket as this will be an electrical hazard.

If the fuse needs to be replaced it must be rated at 5 amps and ASTA approved to BS1362. If the plug is changed, a 5 amp fuse must be fitted in the plug, adapter or at the distribution board. If the fuse in a moulded plug is replaced, the fuse cover must be refitted before the appliance can be used.

Wiring Instructions

The supply cable will be 2-core. Follow the wiring instructions given below. Ensure that the outer sheath of the cable is firmly held by the cable clamp.



WARNING! Do not connect either wire to the earth terminal.



This symbol indicates that this 2-core appliance is Class II and does not require an earth connection.

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

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

TECHNICAL SPECIFICATION _____

Power Supply	
Input	AC 230 -240 V 50 Hz
Consumption	135 W
Fuse rating	5 A
Number of preset programmes	100
RF Aerial input	75 ohm (balanced)
Audio output	NICAM Stereo/Mono
Audio output power	2 x 10W rms
Screen size	28″ 16:9
TV signal system	PAL I/I
Receiving channels	VHF (Band I/III) UHF (Band U) Hyperband Cable-TV (S1-S20/S21-41)

GUARANTEE

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

The guarantee is subject to the following provisions:

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

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

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