



murphy

Instruction manual

DIGITAL LCD TELEVISION

TV26RN20D TV32RN20D

This instruction booklet covers both of the above models.



Before operating the unit, please read this manual thoroughly.

If you experience any difficulties or would like further assistance, please contact our Helpline on 020 8236 9090.

Please Note: This is for operating problems and NOT for Service or Technical enquiries.

Safety warnings

Damage - Never use your TV if it is damaged in any way. Always place your TV on a flat level surface avoiding anywhere which may be subject to strong vibration.

Weather - It is advisable to unplug the aerial during an electrical storm.

Moisture - Do not allow your TV to be exposed to rain, moisture or dust. If any liquid is spilt into your TV it can cause serious damage. If you spill any liquid into your TV switch it off at the mains immediately. Contact your store.

Interference
Do not place your TV on or near appliances which may cause electromagnetic interference (TV or Hi-Fi speakers). If you do, it may adversely affect the working of the unit, causing erratic playback, distorted picture or sound.

Temperature
Avoid extremes of temperature, either hot or cold, place your TV well away from heat sources such as radiators or gas/electric fires.

Notes:

- When installing the set on a wall, allow at least 10 cm clearance between the rear of the set and the wall. Clearance of less than 10 cm will obstruct the vents and cause the interior of the set to overheat, resulting in faults or damage to the set.
- If the unit is mounted on the wall, contact the shop where you purchased the unit for advice, and leave the installation work to experts. Incomplete installation work can cause you injuries.
- The apparatus must be connected to a mains socket outlet with a protective earthing connection.
- The socket outlet must be installed near the equipment and easily accessible.

* The "HD ready" Logo is a trademark of eicta.

Ventilation

The TV must be well ventilated. Do not cover your TV or place inside a small confined space. It is recommended that you leave a 10cm gap all around your TV.

Batteries

Batteries are easily swallowed by young children. Do not allow young children to play with the remote control unit.

Covers - Do not remove any fixed covers as this may expose dangerous voltages.

Standby

Do not leave your TV in standby for long periods of time e.g. overnight or while on holiday. We recommend that you switch off / unplug at the mains power supply.

Headphone

Loud music can damage your hearing irreversibly, therefore do not set the volume to a high level when listening through headphones, particularly for extended listening periods.

Attention!

Cleaning instructions for your LCD TV.

Safety note:

Before you start to clean, switch the set's power off completely and disconnect the plug from the mains power supply.

Be careful not to scratch the plastic coated front panel - it is highly vulnerable to accidental scratching (e.g. by fingernails or other sharp items).

While cleaning, do not wear jewellery that could cause surface scratching (such as rings, wrist-watch, etc.). Use a lint-free cloth and pure water to clean with, but make sure the cloth is thoroughly wrung out so that it is just damp and not soaking wet - also make sure that the cloth is free from any dirt that could cause scratching to the surface.

Wipe the set clean using minimal pressure.

Do not use standard window cleaning fluid. Its alcohol / ammonia will dissolve the front window's coating. Never use solvent or thinner. Never use special cleaners which are designed for cleaning PC Monitors or CRT TVs.

Finally carefully rub dry with a clean dry lint-free cloth.

Do not use paper towels or tissues to clean the set - paper can disintegrate when wet or may leave a trail of dust behind. Some paper can also be abrasive and scratch your screen.

Plasma and LCD TV Screen Burn Warning

A characteristic of Plasma and LCD TV Panels is that displaying the same image for a long time may cause a permanent after-image to remain on the screen. This is called screen burn. Most pictures shown on your TV will be constantly moving and fill the screen.

Examples of images that you need to watch out for are as follows (this is not an all-inclusive list):

- **Black Bars:** If black bars appear at the left/right or top/bottom of the screen it is recommended to change the format so that the picture fills the entire screen.
- **TV Channel Logos:** e.g. Shopping channel logos and pricing displays - especially if they are bright and stationary. Moving or low-contrast graphics are less likely to cause ageing of the screen.
- **PIP and Multipip:** Do not view for long periods of time using the PIP or Multipip functions.
- **Time Displays**
- **Teletext:** Do not view a stationary page for long periods of time.
- **TV/DVD Menus:** e.g. Listings of DVD disk content.
- **Pause Mode:** Do not leave the screen in pause mode for long periods of time, e.g. When watching DVDs or videos.

Note: To prevent screen burn if viewing any of the above for long periods of time, reduce contrast and brightness when viewing. Once burn-in occurs it will never disappear completely.



Moving the unit or carrying by hand

When the unit is moved a long way, unplug the power cord and disconnect the aerial, connecting leads and any fall-prevention apparatus.

- Moving without doing so could result in damage to the power cord, a fire, electric shocks or injuries from dropping the unit.

Ensure that unpacking and transfer of the unit is carried out by two or more people and that the unit stays upright when doing this.

The distance between eyes and the screen should be about 5 ~ 7 times as long as diagonal length of the screen.

- Viewing from too close a distance can cause strain for your eyes.

When installing the Monitor on a table, be careful not to place the edge of its stand.

- This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.



Contents

Connection and Analogue Channel Setup

Location of controls	Page 2
Aerial connection	Page 3
Auto setup	Page 4
Quick guide for ANALOG MENU operation ..	Page 5
Selecting the video input source	Page 5
On-screen Language Selection	Page 5
Automatic station presetting with the built-in Tuner	Page 6
Changing the order of stored channels	Page 6
Manual TV station presetting	Page 7

Basic TV features

Basic TV function	Page 8
Teletext	Page 9
Stereo reception with the built-in analogue tuner	Page 10
Picture format	Page 11
Other convenience functions	Page 12

Digital TV Operation

Guide to using the Digital Menu system	Page 13
Language Setup	Page 14
Auto Scan	Page 14
Manual Scan	Page 15
Carrier Setup	Page 15
Channel Organizer	Pages 16-17
Display Setup	Page 18
Password Setup (Parental lock)	Page 18
Version	Page 19
Software Upgrade	Page 19
Common Interface	Page 19
Channel list	Page 20
Channel banner	Page 20
Multi audio	Page 21
DVB-Subtitle	Page 21
EPG (Electronic Program Guide)	Page 22
EPG Timer	Page 23

Connection to other equipment

PC connection	Page 24
Connecting an HDMI or a DVI device to the HDMI input	Page 25
Connection to other equipment	Pages 26-27
AV colour adjustment	Page 28

Fault finding guide

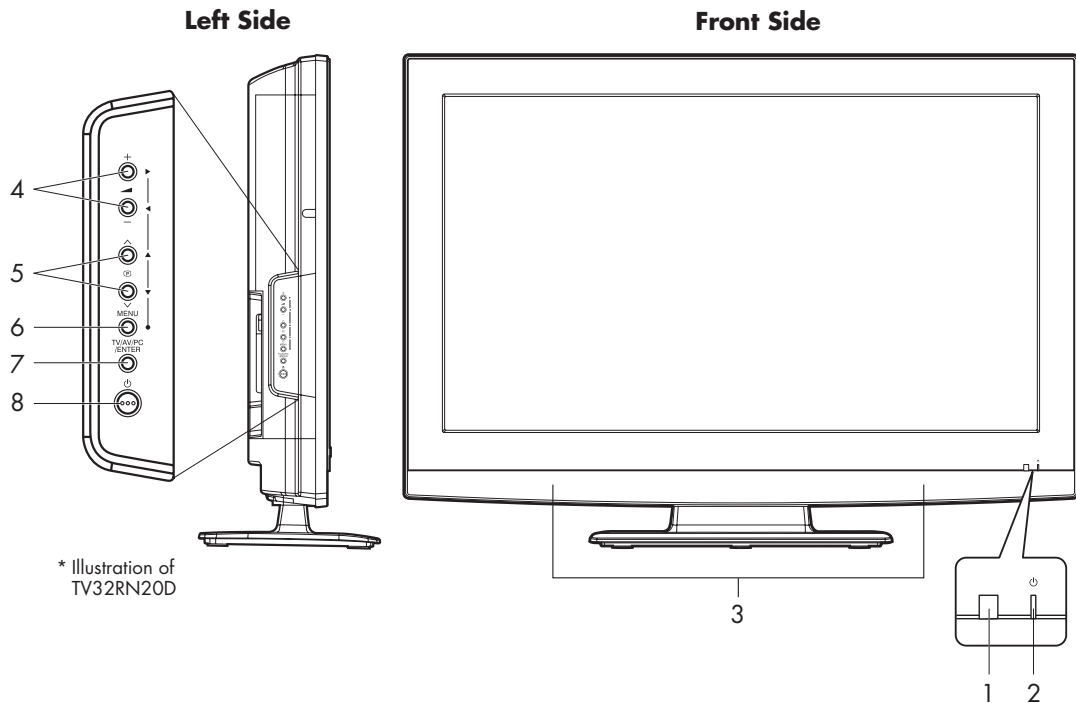
Fault finding guide	Pages 29-31
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Information and specifications

Scart socket information	Page 31
Specifications	Page 31



Location of controls



Description of Indicators and Controls

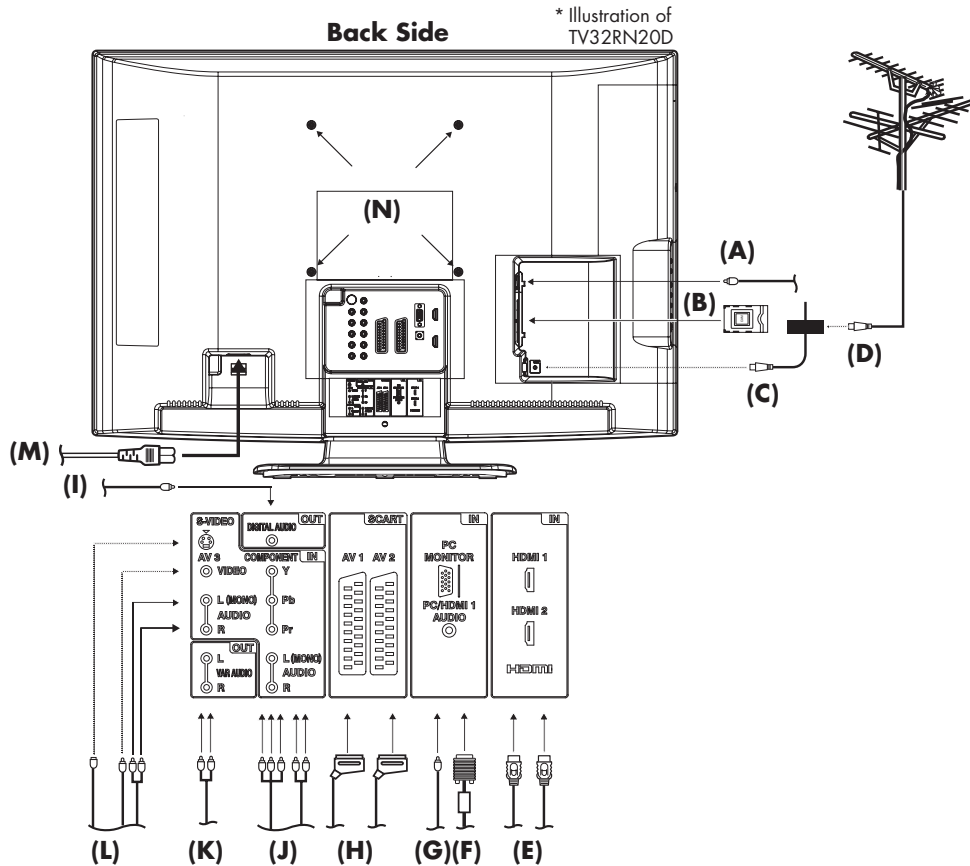
1. **Remote sensor**
2. **⏻ (Standby/Timer/On) indicator:** The LED indicator lights up red in standby mode, orange in standby mode when the timer is activated, and green in the power ON mode.
3. **Loudspeakers**
4. **▲ (Volume) +/- buttons:** To adjust the volume. When the Menu is on the screen, these are used for changing settings.
5. **Ⓟ (Channel) ^/v buttons:** Press ▲ to move up a channel number. Press ▼ to move down a channel number. When the Menu is on the screen, these are used for changing settings. When the set is in standby, they can also be used to switch the power on.
6. **MENU button:** To display the menu screen.
7. **TV/AV/PC/ENTER button:** Select input mode for TV/AV/COMPONENT/HDMI/PC. In Menu : Using as **ENTER** button.
8. **⏻ (Power)-key:** To switch between the STANDBY and POWER ON modes.

Aerial connection

Note: Before you connect other appliances:

- To avoid potentially damaging your set, make sure all items are switched off and disconnected from the mains power when you make the connections.
- Arrange the desired connection.
- When you have finished making the connections, reconnect the mains power to the unit and switch it back on.

Connect your aerial as shown below (C). Connections to other equipment is explained further on pages 26~28. If you have problems with reception, consult a specialist of aerial.



- (A) HEAD PHONE jack:** Plug headphones with a mini plug (3.5 mm) into this jack.
- (B) C.I. slot:** for DVB-T-PayTV (still no providers at present) (see page 19).
- (C) DVB-T aerial:** Connect a DVB-T aerial if DVB-T is already available in your transmission area. Special versions allow for simultaneous connection of the analogue cable TV network **(D)**. Ask your specialist retailer. The built-in combi tuner receives all analogue cable programmes and DVB-T channels.
- (E) HDMI input (HDMI 1/HDMI 2):** See page 25.
- (F) PC MONITOR input (PC):** See page 24.
- (G) PC/HDMI 1 AUDIO input jack:** See pages 24, 25.
- (H) SCART sockets (AV 1/AV 2):** For the connection of scart cables. See page 26.
- (I) DIGITAL AUDIO output:** digital output for DVB-T sound (see page 27).
- (J) COMPONENT input:** See page 27.
- (K) VAR (Variable) AUDIO output:** To connect to an audio amplifier and external speakers - the audio output level is varied using the TV's remote control. You can also disable the TV's built-in speakers if desired (see page 12).
- (L) AV 3 input:** Input for analogue A/V-Signal (Composite or S-Video). See page 27.
- (M) Power supply:** Connect the supplied power cable to an AC 220~240V/50/60Hz mains power supply only - do not attempt to connect it to any other type of supply. Never try to repair a damaged AC mains lead with isolation-tape - this should be repaired by a specialist or replaced. Do not let your pet loose near the cable. Animals biting into the cable could receive a fatal electric shock, and could cause a hazard to others.
- (N) Bracket holes:** Fix a wall mounting bracket (not supplied) here.



Auto setup

Contents

Connection and Analogue Channel Setup

Basic TV features

Digital TV Operation

Connection to other equipment

Fault finding guide

Information and specifications

Your unit has an Automatic installation which makes installation in your unit easy. When you turn on the unit for the first time, the Automatic installation routine is activated. Using this routine, you can select the on-screen language and automatically search for and store all the receivable analogue and digital (DVB) channels. The Automatic station presetting feature is for the set's built-in tuner only. If you have a device such as a digital decoder (eg. Satellite or Digital Terrestrial) connected (see page 26), you would need to tune it in separately according to its own instructions.



Note:

- To cancel the Auto Tuning, press **EXIT** during the process.
- If on the "Auto installation (Country)" screen "UK" is selected, "Move To" cannot be used in UK (see page 17).

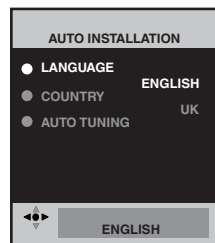
THE AUTOMATIC TUNING PROCESS WILL ONLY START BY ITSELF THE FIRST TIME YOU SWITCH THE SET ON. HOWEVER YOU CAN RESTART THIS PROCESS VIA THE MENU SYSTEM (see page 6 for analogue channels, and page 14 for digital channels).

Preparation:

Press **Power** on the unit or press **On/Standby** on the remote.

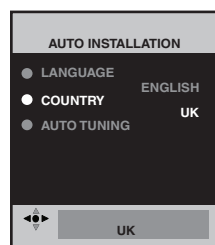
1

AUTO INSTALLATION menu will appear. Press **▲** or **▼** to select LANGUAGE, then press **ENTER**. Press **◀** or **▶** to select desired language. Then press **ENTER**.



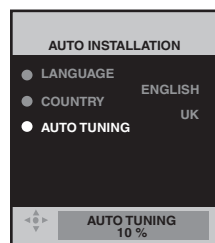
2

Press **▲** or **▼** to select COUNTRY, then press **ENTER**. Press **◀** or **▶** to select your country. Then press **ENTER**.

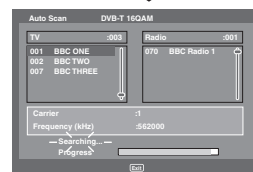


3

Press **▲** or **▼** to select AUTO TUNING, then press **ENTER**. The confirmation screen will be displayed. Press **ENTER** to start automatic tuning. Your TV will now automatically tune in all available channels. Your TV will tune the analogue channels first, then tune the digital channels.



(ANALOGUE)



(DIGITAL)

Note:

- **Please be patient - the Auto Tuning process can take several minutes to complete.**

When the programme on the screen stops changing and the sound comes on, the search process is complete.



Quick guide for ANALOG MENU operation/Selecting the video input source/On-screen Language Selection


Quick guide for ANALOG MENU operation

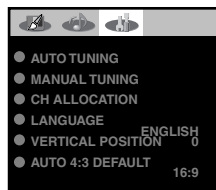
Call ANALOG MENU and for example: Select AUTO TUNING.

1

Press **INPUT SELECT**.
Select ATV. Press **ANALOG MENU**.

2

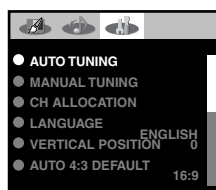
Press ◀ or ▶ to select .



3

Press ▲ or ▼ to select AUTO TUNING, then press **ENTER** to enter the AUTO TUNING menu.

... on the following pages the menu can be called in the same way as here.

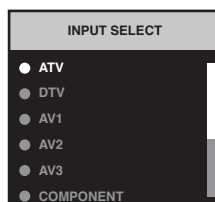


4

Press **EXIT** to return to the normal screen.

Selecting the video input source

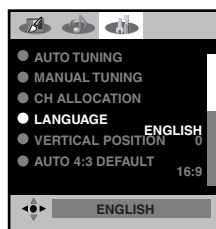
Press **INPUT SELECT** to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select each input source depending on which input jacks you used to connect your devices. To select the video input source, press ▲/▼. Then press **ENTER** within 6 seconds.



On-screen Language Selection

1

Select LANGUAGE (unless you have already selected when the set was first switched on). Then press **ENTER**.



2

Press ◀ or ▶ to select the desired language.

3

Press **EXIT** to return to the normal screen.

Make sure the aerial connection and power supply are connected as per the description on previous page.

Preparations:

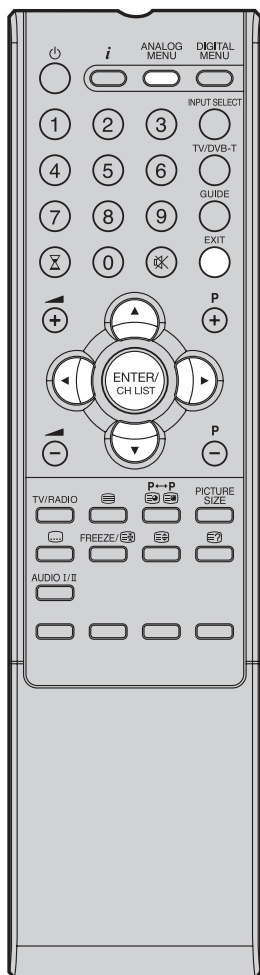
Turn on the unit with the **⏻** (Power) button on the unit. The **⏻** (On/Timer/Standby) indicator will light up in green. To change the unit to standby mode, press **⏻** on the remote control. **⏻** (On/Timer/Standby) indicator will change from green to red. To turn on the unit from standby mode, press **⏻** on the remote control again. In standby mode, you can also turn the unit on with **Ⓜ** (**Channel**) ▲/▼ on the unit or **P + / -** on the remote control. To turn off the unit press **⏻** (Power) button on the unit - to completely switch it off, disconnect the mains power supply.



Note:

- If no buttons are pressed for more than approx. 60 seconds, the menu disappears automatically.

Automatic station presetting with the built-in Tuner/Changing the order of stored channels



Note:

- To restart digital auto tuning, see page 14.
- When the COUNTRY is set to UK, the automatic tuning will search for UHF broad-casts only.
- When changing the order of the channels, it is best to start with Ch 1.

Automatic station presetting with the built-in Tuner

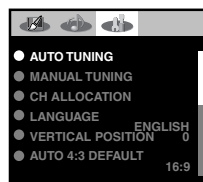
Perform this feature to search for and store new analogue TV programmes after the Automatic installation (page 4).

Preparation:

Make sure your aerial is connected to the aerial input (see page 3). Select ATV (see page 5). Then press **ANALOG MENU**.

1

Select AUTO TUNING, then press **ENTER**.



2

Select COUNTRY, then press **ENTER**.

Press ◀ or ▶ to select your country, then press **ENTER**.



3

Select START. Then press **ENTER**.

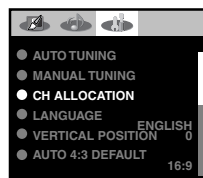
The automatic tuning will search for available broadcasts and should store the channels in the correct order. During the search the sound is muted. When all programs have been stored, the normal TV screen will appear.

Changing the order of stored channels

The Automatic station presetting stores the stations in a specific order. However, this order can be changed if you wish.

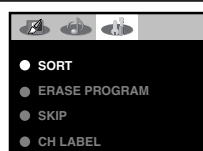
1

Select CH ALLOCATION.
Then press **ENTER**.



2

Select desired option, then press **ENTER**.



3

After setting the each option, press **ANALOG MENU** to return to CH ALLOCATION menu.

4

Press **EXIT** to return to the normal screen.

Description about the each setting option:

SORT: Press ▲ or ▼ to select the channel that you want to move, then press **ENTER**. Press ▲ or ▼ to select the position that you want to move the channel to, then press **ENTER**.

ERASE PROGRAM: Press ▲ or ▼ to select the channel that you want to erase, then press **ENTER**.

SKIP: Press ▲ or ▼ to select the channel that you want to skip, then press **ENTER**. * mark will appear.

CH LABEL: Press ▲ or ▼ to select channel that you want to rename, then press **ENTER**. Press ▲ or ▼ to select character, then press ◀ or ▶. The cursor will move to the next position. Press **ENTER** to set the channel label.

Manual TV station presetting

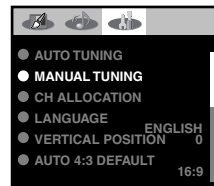
If you like, you may manually tune a certain station into a selected program position, without deleting or modifying other program position's contents. Example: Store the BBC 2 into program position 2.

1

Preparation: connect analog rf-cable-supply. Select ATV (see page 5). Select program position 2. Press key **2** (see page 8). OSD will indicate "2" in right upper corner. Eventually recently stored TV-channel's name might also appear.

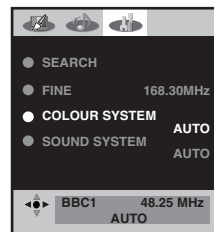
2

Press **ANALOG MENU**. Press ◀ or ▶ to select tool-page (see here). Press ▲ or ▼ to select **MANUAL TUNING**. Press **ENTER**.



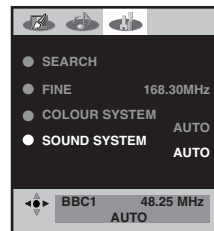
3

Press ▲ or ▼ to select **COLOUR SYSTEM**, then press **ENTER**. Press ◀ or ▶ to select **AUTO**, **PAL** or **SECAM** then press **ENTER**. Please note that **PAL** should be selected for use in UK.



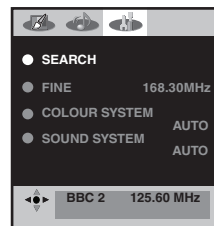
4

Press ▲ or ▼ to select **SOUND SYSTEM**, then press **ENTER**. Press ◀ or ▶ to select **AUTO**, **B/G**, **I**, **D/K** or **L/L'**, then press **ENTER**.



5

Press ▲ or ▼ to select **SEARCH**. Press **ENTER**. Press ◀ or ▶ to start tuning. Tuning will stop automatically at next available station. If this does not happen to be the **BBC 2**, press ◀ or ▶ again to continue tuning for the **BBC 2**. Then press **ENTER**.



6

If you like use fine-tuning. Select **FINE** and press **ENTER**. Press ◀ or ▶, to fine tune. See the note on this page.

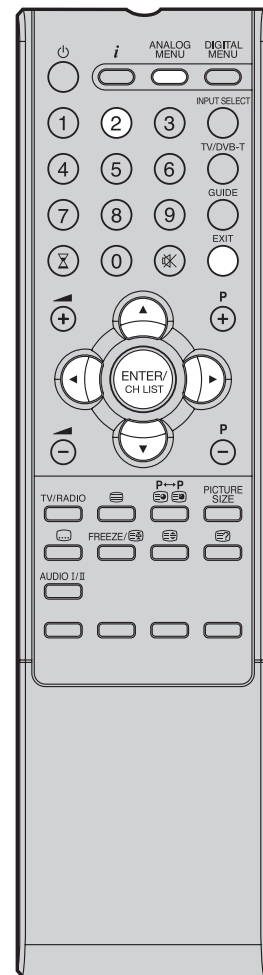


7

To store other stations in additional program position, repeat steps 1 to 6.

8

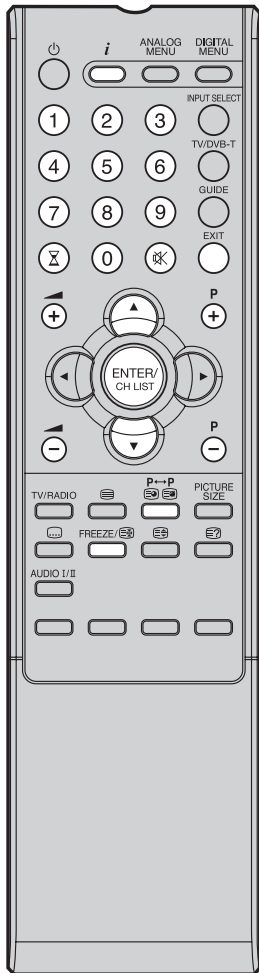
Press **EXIT** to return to the normal screen.



Note:

- Usually fine tuning is not necessary, due to tuning's automatically stopping at the very best position. If you fine-tune anyway, proper working of teletext-reception with built-in tuner is no longer guaranteed.

Basic TV function



Note:

- If the built-in tuner does not receive anything (e.g. if no aerial is connected) during TV-operation, then the TV-unit will change to standby after approx. 15 minutes.

Channel selection

With the numbered buttons.

Example:

- No. 2: Press **0** and within 2 seconds, press **2**.
- No. 29: Press **2** and within 2 seconds, press **9**.

Press **P +** or **-** to change up or down a channel. This takes approx. 2 seconds. If the auto search only stored 5 stations, only these 5 will appear. Skipped channels will not appear (see page 6).

The **CH LIST** shows a list of all receivable programmes. They are located in channels 1 to 99.

Press **CH LIST** to display the CH LIST.

Press **▲** or **▼** to select the desired channel.

Press **CH LIST** to display the selected channel. Press **EXIT** to exit.

QuickView

P↔P button allows you to go back to the last selected channel.

Volume adjusting

Press **▲ +** or **-** to adjust the volume. The volume level indicator disappears after 4 seconds.

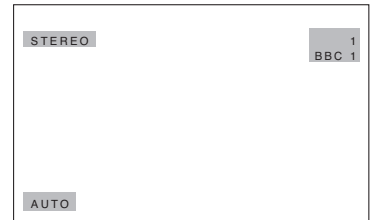
MUTE

Press **MUTE**. The sound will be cut off. MUTE will appear for approx. 4 seconds. The muting can be released by pressing **MUTE** again or **▲ +** or **-**.

Information display

In the analogue TV mode: Press **i**. Channel number and picture size setting will appear for approx. 4 seconds.

In the digital TV mode: Press **i**. The program information will appear (see "Channel banner" on page 20).



SLEEP TIMER

To set the sleep timer press **SLEEP**. SLEEP and the minutes until shut-off will appear. Each time you press **SLEEP** the SLEEP time shown will change. When the displayed time runs out, the unit will switch to standby. The display will disappear after approx. 4 seconds

To cancel the sleep timer:

Press **SLEEP** repeatedly until "0" appears.

Note:

- SLEEP TIMER can also be set in the SLEEP TIMER-menu (see page 12).

Still picture

Press **FREEZE** to make a still picture. To cancel the still picture, press **FREEZE** again.

Note:

- The still image automatically goes out after 30 minutes.

Teletext

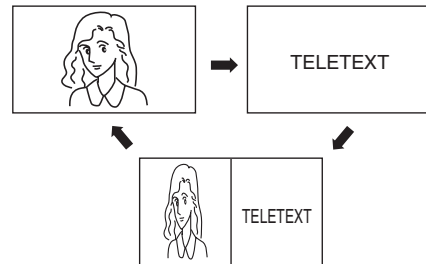
Teletext is sent page by page. This unit is able to automatically store up to 256 pages, but they can only be accessed once they have been stored. This can take a few moments.

Fastext/TOptext

The Fastext/TOptext is teletext with a special directory. On the lower part of the screen there are four different coloured fields (red, green, yellow and blue). These fields lead directly to the pages shown within. The coloured buttons on the remote control correspond to the coloured fields. Press the appropriate coloured button in order to activate the desired colour field.

Switch on/off Teletext

Teletext is not transmitted by all channels. Select a channel that shows teletext. Press **⏏**. You will now see a teletext page. (If "100" is shown without any text information, it may mean that the channel you have selected does not support teletext.) Press **⏏** again. The TV-screen will be split into two and both Teletext information and actual broadcast will be displayed at the same time. Press **⏏** again in order to switch off teletext. Press **⏏** again in order to switch on teletext again. The last page which was stored is now shown.



Note:

- You cannot select any other channels as long as teletext is switched on. Switch teletext off when you want to switch over to another channel.

Select Page

Press **P +** or **-** until the page you desire appears. Or ... enter the requested page number by using the **10 Number Buttons**.

And if you mistype something, just enter the complete 3-digit wrong page number then enter the desired number again. Or ... press one of the coloured teletext buttons so that a page from Fastext/TOptext is shown.

Hold Pages

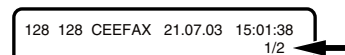
Some pages are divided up into subpages by the channel. Subpages are automatically shown in turn, as they are transmitted. In order to hold the page, press **⏏**. Press **⏏** again in order to display the next subpage.

Directly Select Subpages

You can directly select the subpages if required.

Example:

Page 128 from Teletext comprises of 2 subpages. In the right upper corner you will, for example, see 1/2. That means that page one of 2 subpages is being shown at the moment.



Press **⏏** in order to select subpage 2. 4 dashes (—) are shown. Enter **0 0 0 2**. It can take a minute before subpage 0002 appears.

Press **⏏** again in order to switch off the subpage feature.

You can only select other teletext pages when the subpage feature is switched off.

Enlargement

In order to enlarge the display, press **⏏**. Either the upper or lower half of the screen is enlarged. Each time you press **⏏** you switch between the display of the upper or lower half of the screen or the full picture.

Answering Quiz Questions

Some pages contain quiz questions with concealed answers. Press **⏏** in order to show the answers.

Page 100

Press **ENTER** in order to show page 100.

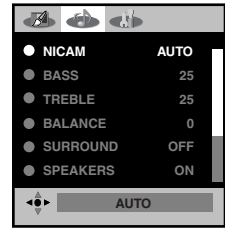
Stereo reception with the built-in analogue tuner

The built-in Tuner can detect and receive NICAM stereo broadcasts automatically.

NICAM stereo sound reception:

1

Select **NICAM**, then press **ENTER**.
Press **◀** or **▶** to select **AUTO** or **OFF**.
Select **OFF** if you do not want to receive NICAM sound.



2

Press **EXIT** to return to the normal screen.

The following types of broadcast are possible with NICAM transmissions

"NICAM ST" illuminates for approx. 4 seconds when a NICAM STEREO broadcast signal is received.

NICAM ST

"NICAM M1" illuminates for approx. 4 seconds when a NICAM MONO A broadcast signal is received.

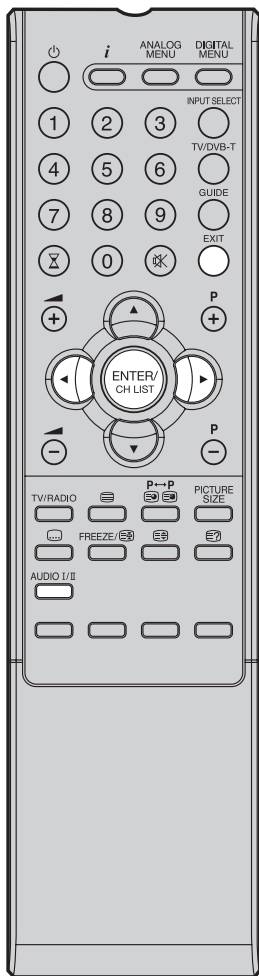
NICAM M1

"NICAM M1/M2" illuminates for approx. 4 seconds when a NICAM MONO A and MONO B broadcast signal is received.

NICAM M1 / M2

This will be displayed for approx. 4 seconds if a NICAM signal is received when the "NICAM OFF" option is selected.

NICAM OFF



Stereo reception in Germany

"STEREO" illuminates for approx. 4 seconds when a STEREO broadcast signal is received.

STEREO

When 2-channel sound reception is available, you can select your preferred audio with the AUDIO I/II button.

Each time you press **AUDIO I/II**, the sound channel will switch to the alternative channel available.

NICAM 2-channel sound reception (not available in Germany)



2-channel sound reception in Germany



Note:

- In case of bad reception, the stereo sound also can be disturbed.

Picture format

The broadcaster may transmit a Wide Screen Signalling (WSS) signal which can determine the correct picture width and set it automatically when the AUTO setting is used. If you want to change this setting, you can select from the formats listed below.

AUTO

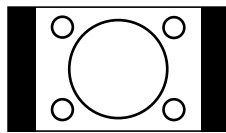
Press **PICTURE SIZE** repeatedly until AUTO appears.

Manual format setting

Pressing **PICTURE SIZE** repeatedly scrolls through the following options.

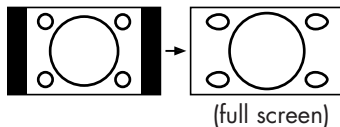
4:3

This mode shows a 4:3 picture in its original size and shape with vertical bands on the left and right side.



FULL SCREEN

Stretches the left and right hand sides of a 4:3 picture horizontally to fill the screen, while leaving the centre of the picture unstretched.

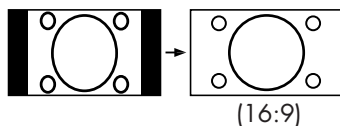


Note:

- In this mode the picture is geometrically distorted on the left and the right sides of the screen.

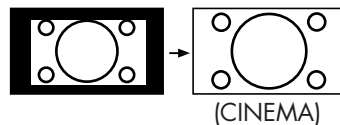
16:9

This mode is used with 16:9 signals from a Digital decoder, DVD player or other external source. This uniformly stretches a 4:3 image horizontally to fill the screen (For example, a 16:9 image is often stored "anamorphically" on a DVD, where the 16:9 image is stored as a horizontally compressed 4:3 image - this mode restores the image to its correct 16:9 proportions).



CINEMA:

This mode is used to zoom-in on (expand) 4:3 "letterbox" format pictures (with black bars at the top and bottom) so that they fill more of the screen.

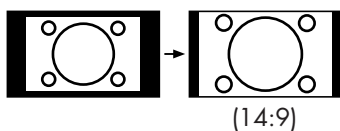


Note:

In the CINEMA mode, part of the picture may be slightly cut off due to the expansion. However, it is possible to scroll the picture up or down to view the top or bottom part of the picture (see page 12).

14:9

This enlarges a 4:3 picture to the 14:9 format.






Note:

- The picture size cannot be adjusted in PC operation.
- For 720p and 1080i signals the PICTURE SIZE button does not work.
- External receivers can automatically adjust the picture size via a SCART cable. Please read the instructions for the external receiver.

Other convenience functions

You can change the default settings to convenience use.

Icon	Selected Items		Setup hint
	PICTURE PREFERENCE	SPORTS	Bright and dynamic picture (factory-set)
		STANDARD	Standard picture quality (factory-set)
		MOVIE	Movie-like picture setting (factory-set)
		MEMORY	Your personal preferences
	BRIGHTNESS / CONTRAST / COLOUR / TINT (NTSC) / SHARPNESS		You can adjust the picture to your preference. The "TINT (NTSC)" option can be selected if an NTSC 3.58MHz or NTSC 4.43MHz signal is input through one of the AV sockets, and NTSC or AUTO has been selected for the AV COLOUR option.
	DNR *1	OFF / LOW / MEDIUM / HIGH	Sometimes it is not possible to input a high-quality HD signal. The actual signal input is too small and noisy, e.g. a video film in letterbox format, or a noisy analogue cable TV signal. DNR can slightly reduce interferences caused by the faulty input signal.
	COLOUR TEMPERATURE		Bluish (COOL) / Neutral (MEDIUM) / Reddish (WARM)
	BLUE BACK	ON / OFF	You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent.
	BACKLIGHT		You can use the Back light feature to adjust the screen brightness for improved picture clarity.
RESET		Select "RESET" to reset PICTURE PREFERENCE, BRIGHTNESS, CONTRAST, COLOUR, TINT(NTSC), SHARPNESS, COLOUR TEMPERATURE and BACKLIGHT to the factory preset values.	
	NICAM		See page 10.
	BASS / TREBLE / BALANCE		You can adjust the sound quality to your preference.
	SURROUND	ON / OFF	The SURROUND feature processes the audio signal to expand the listening field wider and deeper to create a "pseudo surround-sound" from the TV's speakers. The feature works with stereo signals from TV broadcast or AV input.
	SPEAKERS *2	ON / OFF	Use this feature to turn the TV speakers off when you connect an audio system (see page 27).
	HDMI1 AUDIO		See page 25.
	RESET		Select "RESET" to reset BASS, TREBLE and BALANCE to the factory preset values.
	AUTO TUNING		See page 6.
	MANUAL TUNING		See page 7.
	CH ALLOCATION		See page 6.
	LANGUAGE		See page 5.
	VERTICAL POSITION		When the CINEMA mode is selected (see page 11), you can adjust the vertical picture position. Press ◀ or ▶ to adjust the vertical position of the picture by up to +10 and downwards by up to -10.
	AUTO 4:3 DEFAULT *3	4:3 / 16:9	This option selects the default way that a 4:3 signal is shown - either as normal "4:3" or expanded in the "16:9" mode, according to your preferences.
	SLEEP TIMER	0~120 min (every 10 minutes)	You can set SLEEP TIMER to automatically turn off the TV. To cancel the SLEEP TIMER, set to "0".
	AV1 INPUT		See page 28.
	AV2 INPUT		See page 28.
	AV COLOUR		See page 28.
	REC SCREEN STATUS	ON / OFF	This function is used in conjunction with the Timer function that is included as part of the Digital EPG. It determines whether the TV screen switches on or not when a programmed Timer setting begins - see page 23 for further details.
	RESET TV SETTING		Presses ENTER to enter the RESET TV SETTING screen. Presses ▲ or ▼ to select "YES", then presses ENTER . Reset the TV function will now begin, and this unit will automatically turn off.

Note:

- *1 In HDMI or COMPONENT (except 480i/576i) mode, the DNR option cannot be selected.
- *1 The interferences from the input are suppressed most if HIGH is set. This could result in side-effects such as loss of sharpness and smearing.
- *2 Make sure the volume control of your audio amplifier is set to a moderate listening level.
- *3 AUTO 4:3 DEFAULT is available only for AUTO picture size setting.
- *3 In COMPONENT and HDMI mode, AUTO 4:3 DEFAULT is available only for 480i/576i mode.

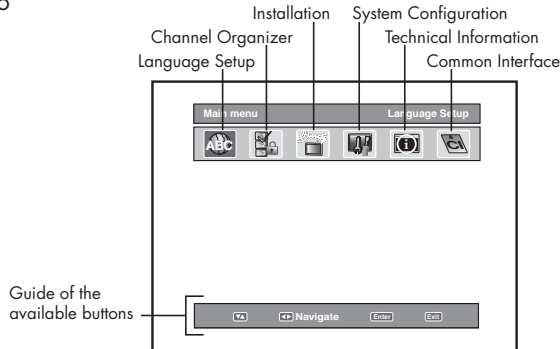
Guide to using the Digital Menu system

Preparation

Press **TV/DVB-T** to select the digital TV mode.

1

Press **DIGITAL MENU** to display the Main menu. Press **◀** or **▶** to select desired options. (Example: selecting the Language Setup option.)



2

Press **ENTER**. The selected menu will appear.

Some of the options have a sub menu. Press **▲** or **▼** to select desired sub menu, then press **ENTER**.

(Example: sub menu in the Installation option.)



3

When you have finished making adjustments, press **EXIT** to return to the normal screen.

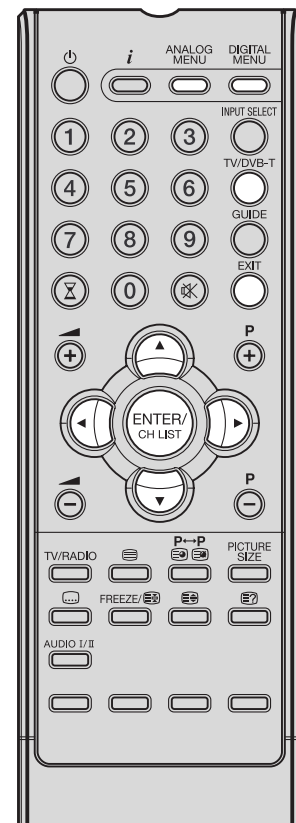
Note:

In analogue TV mode, **DIGITAL MENU** will not work. Please press **TV/DVB-T** to select digital TV mode to display the digital menu. However, it is possible to use the **ANALOG MENU** in the digital TV mode. The analogue menu includes some general settings for this TV that apply to both modes, and it will be displayed over the digital TV screen.

When the set is in the digital mode, you can access the main menu by pressing **DIGITAL MENU** on the remote control. This main menu contains several options,
 - Language Setup
 - Channel Organizer
 - Installation
 - System Configuration
 - Technical Information
 - Common Interface

The main menu is the gateway for all the other "sub" menus. You can navigate between the different options in the main menu by pressing **◀** or **▶**.

The **DIGITAL MENU** key will also function like an **EXIT** key, i.e. when any menu is active, pressing the **DIGITAL MENU** key will return to the previous stage.



Language Setup/Auto Scan

Contents

Connection and Analogue
Channel Setup

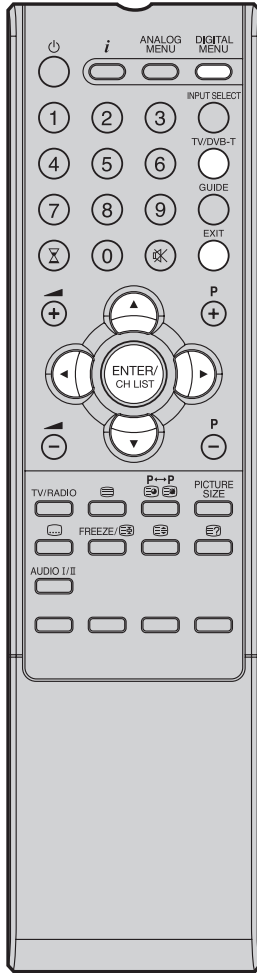
Basic TV Features

Digital TV Operation

Connection to other
equipment

Fault finding guide

Information and
specifications



Language Setup/Auto Scan

Preparation:

Switch on appliance. Press **TV/DVB-T**.
The appliance switches over to DVB-T-mode

1

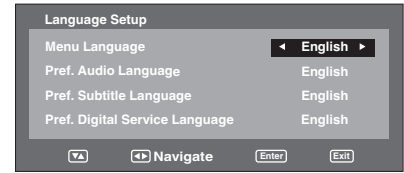
Press **DIGITAL MENU**, the menu will appear on the screen.



Press **◀** or **▶** to select Language Setup option, then press **ENTER**.

2

Language Setup menu will appear. Press **▲** or **▼** to select the item you want to change. Press **◀** or **▶** to select desired language.



3

When all changes are decided, press **EXIT** to return to the normal screen.

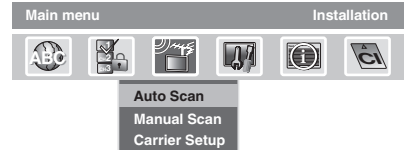
Auto Scan

Preparation:

Please ensure that all the connections have been made correctly (see page 3).

1

Press **▲** or **▼** to select "Auto Scan" then press **ENTER**.

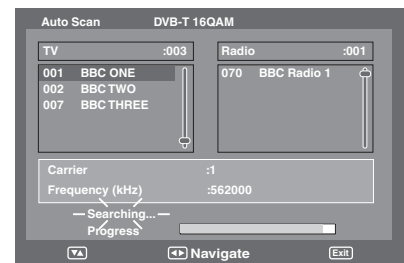


2

The confirmation banner will be displayed. Press **◀** or **▶** to select "Yes" or "No", then press **ENTER**.

3

The Auto Scan process will now begin. The scanning process will be displayed in the progress bar.



Note:

- If "FINLAND" is selected on the "AUTO INSTALLATION (COUNTRY)" screen, two languages are displayed for each item and the first selected language has priority. The language output depends on the languages contained in the broadcast.
- All the channels will be deleted before the scanning process begins.
- You can cancel the scan process at any time by pressing **EXIT**. The carriers and the services stored before **EXIT** is pressed will be stored.

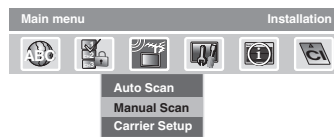
Manual Scan/Carrier Setup

Manual Scan

With the Manual Scan option, you can tune one carrier at a time, by entering the carrier parameters manually.

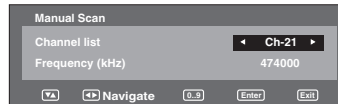
1

Press **▲** or **▼** to select "Manual Scan", then press **ENTER**.



2

You can choose the carrier number from the Channel list by using **◀** or **▶** and the corresponding frequency set for the carrier will be set for tuning.



Otherwise you can also directly enter the frequency value to start the tuning.

3

After setting the carrier, press **ENTER** to start the scanning. During the scan process, the list of services (TV/Radio) collected for the carrier will be listed.

4

Then the confirmation banner will be displayed. Press **◀** or **▶** to select "Yes" or "No", then press **ENTER**.

5

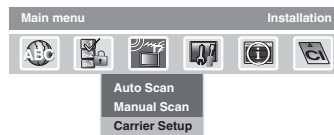
Press **EXIT** to return to the normal screen.

Carrier Setup

The Carrier setup option menu lists all the carriers (multiplexes) that are currently available and allows you to Rename, Delete or Rescan carriers individually.

1

Press **▲** or **▼** to select "Carrier Setup", then press **ENTER**.



2

All the carriers are listed with their frequency and service information - the user can scroll through the carrier list and select each one individually to Rename, Delete or Rescan.

3

Rename:

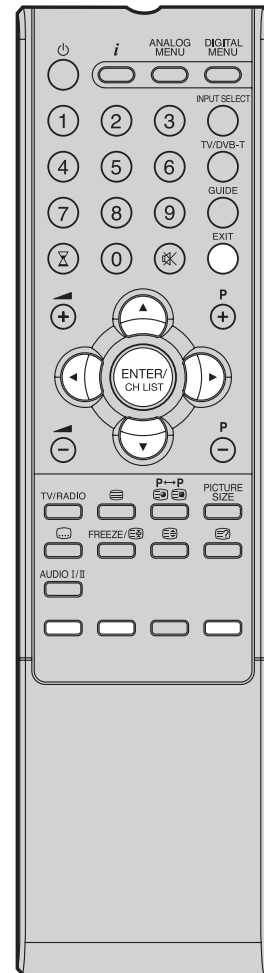
Select carrier, then press **Red** button. The alphanumeric keypad will appear. You can rename a service as per your preference (see page 17).

Delete:

Select carrier, then press **Green** button. The check mark (✓) will be displayed for selected carrier. Then press **ENTER**. The confirmation banner will be displayed. Press **◀** or **▶** to select "Yes" or "No", then press **ENTER**. If the option "Yes" is selected then all the marked carriers will be deleted from the list.

Rescan:

Rescan allows to tune the already tuned carrier, to collect any new programmes that are currently available in the stream. Press **Blue** button, to rescan the current selected carrier.

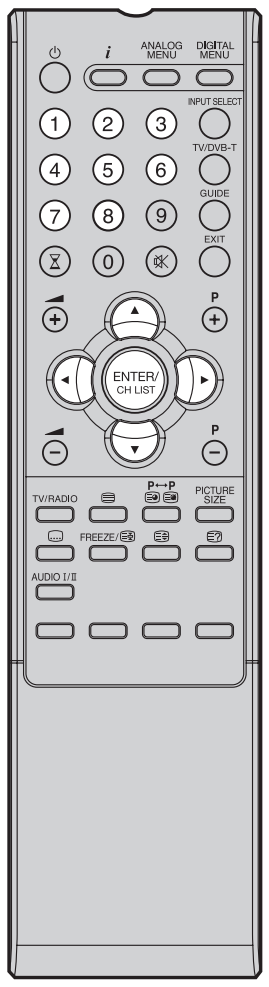


Note:

- If on the "Auto Installation (country)" screen "Finland" is selected, "Frequency (kHz)" cannot be used.
- When the Country is set to Finland in the "Auto installation (Country)" If there is a Channel List in the data after Auto Scan or Manual Scan, Channel Type Selection Menu will be displayed and available to set Channel List Type.
- Select the Channel List Type by pressing **◀/▶** and press **ENTER**
- If "FINLAND" is selected on the "Auto Installation (country)" screen, Data is displayed on the "Carrier Setup" screen.

Channel Organizer

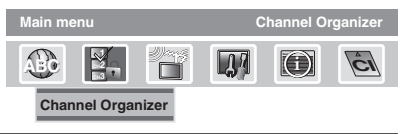
The Channel Organizer feature provides options to organise the channels. The following options are supported: Favourite, Lock, Skip, Go To, Delete, Rename, Move, Move To, View.



Note:

- While in TV mode, only TV programmes will be displayed and only radio programmes will be displayed while in radio mode.
- The displays of Channel / Service name will be abbreviated depend on its size of the letter.

1
 Press ◀ or ▶ to select Channel Organizer option, then press **ENTER**.

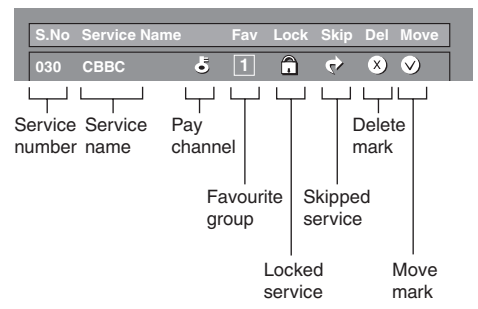


2
 The Channel Organizer menu will appear. The available programmes will be listed, depending on the current mode. The selected programme will be highlighted. To toggle within the service list, press ▲ or ▼.



3
 By pressing the corresponding **Number Button (1-8)** or the **ENTER** key, you can activate the following functions from this menu for each channel: Favourite, Lock, Skip, Go To, Delete, Rename, Move, Move To and View. (You can deactivate each of these functions by pressing the same number again.) See page 17 for setting details.

Indications:



Channel Organizer

Setting details

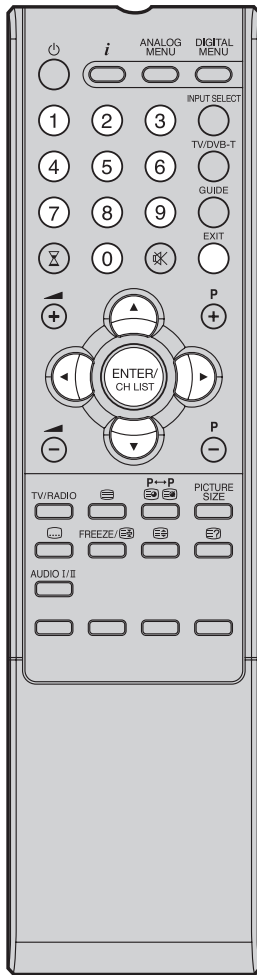
Fav *1	None	Assign services to four different favourite groups.
	Fav1	① Press ▲/▼ to select the desired service.
	Fav2	② Press 1 on the remote control. A selection box displays.
	Fav3	③ Press ▲/▼ to register the selected service to any of the four favourite groups (None, Fav1 ... Fav4) and then press ENTER . An icon displays indicating the favourite status.
	Fav4	④ Press DIGITAL MENU . ⑤ Now you can easily select your favourite service from the Channel List (See page 20).
Lock		When the service is locked, you must enter your PIN whenever you tune to the service. ① Press ▲/▼ to select the desired service. ② Press 2 on the remote control. If you already set the PIN, enter it here. If not, enter the factory preset PIN "0000". An icon displays indicating the service is locked. • Pressing 2 will turn the lock icon on and off. (PIN entry is required.) ③ Press DIGITAL MENU .
Skip		Services that are set to skip will not be picked up when pressing P +/- . ① Press ▲/▼ to select the desired service. ② Press 3 on the remote control. An icon displays indicating the service to be skipped. • Pressing 3 will turn the skip icon on and off. ③ Press DIGITAL MENU . • To view services that are set to be skipped, use 0-9 or select from the Channel List.
Go To		Use this function to jump to the specific service in one step. This is useful when there are many services displayed on screen to scroll through. ① Press 4 on the remote control. Now you can change the service number on the left side of the screen. ② Enter the number using 0-9 , and then press ENTER . The highlight moves to the selected service.
Delete		Delete the selected service(s) from the memory. ① Press ▲/▼ to select the desired service. ② Press 5 on the remote control. An icon displays indicating the service to be deleted. • Pressing 5 will turn the delete icon on and off. ③ Press DIGITAL MENU . A confirmation message displays. ④ Press ◀/▶ to select "Yes", and then press ENTER .
Rename		Change individual service names. ① Press ▲/▼ to select the desired service. ② Press 6 on the remote control. A character set screen displays. ③ Enter new name for the service. ④ Press DIGITAL MENU . A confirmation message displays. ⑤ Press ◀/▶ to select "Yes", and then press ENTER .
Move		Sort the order of the selected service by moving the service position. ① Press ▲/▼ to select the desired service. ② Press 7 on the remote control. An icon displays indicating the service to be moved. • Pressing 7 will turn the move icon on and off. ③ Move the selected service to the desired position using ▲/▼, and then press ENTER to register the change.
Move To *2		Sort the order of the selected service by modifying the service number. ① Press ▲/▼ to select the desired service. ② Press 8 on the remote control. Now you can change the service number on the left side of the screen. ③ Enter the number using 0-9 , and then press ENTER . The service moves to the new position.
View		Change to the service shown in the picture window. ① Press ▲/▼ to select the desired service. ② Press ENTER on the remote control. The image shown in the picture window changes. ③ Press EXIT to exit the Channel Organizer screen to view the image in full screen

Note:

*1 You cannot register the same service to two different favourite groups.

*2 If on the "AUTO INSTALLATION(COUNTRY)" screen "UK" is selected, "Move To" cannot be used in U.K.

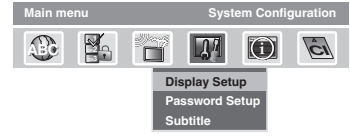
Display Setup/Password Setup (Parental lock)



Display Setup

1

Press **▲** or **▼** to select "Display Setup", then press **ENTER**.



2

Display Setup menu will appear. Press **▲** or **▼** to select the item you want to change. Then you can change each setting by pressing **◀** or **▶**.

Banner timeout	1 Sec, 2 Secs... 7 Secs	Select how long the service banner information appears on screen.
Banner position	Top Bottom	Select whether the service banner information appears on top or bottom of the screen.
Display Transparency	None 10%, 20% ... 50%	Select the desired level of On-Screen Display transparency.

3

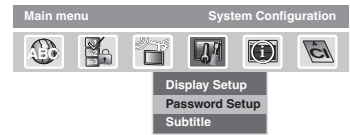
After all the changes are made, press **EXIT** to return to the normal screen.

Password Setup (Parental lock)

This feature allows you to have a parental control of the service viewing as per your preference. Once a service is protected with a password, it cannot be viewed unless the correct password is provided.

1

Press **▲** or **▼** to select "Password Setup", then press **ENTER**.



2

"Enter Password" will appear. Press "0 0 0 0" using the **Number Buttons**. (This is the default password.)

3

Press **▲** or **▼** to select "Parental Lock", then press **◀** or **▶** to select desired parental rating (see note). Then press **EXIT** to return to the normal screen.

4

You can also change the password using the next option. Press **▲** or **▼** to select "Change password".

Then enter your chosen new password (be sure to remember this password). After you have entered the new password for the first time, you need to enter the same password again for confirmation. The Information banner will then appear.

Press **EXIT** to return to the normal screen.

While toggling between channels, if a service which has a parental rating is selected then you will be asked to enter the correct password to view that channel. If the channel you are currently watching supports a parental rating then the rating will also be displayed in the Channel banner menu (see page 20).

Note:

- There are 15 age-based ratings, ranging from "4" (years old) to "18" (years old) and "None". Eg. If the Parental Lock is set to "8" (years old), only the services which have the parental rating of "8" (years old) or under will be viewable without entering the Password.
- You will be prompted to enter the password, when you set new parental rating.
- You can set the new parental rating only when you enter the password correctly, otherwise the old parental code will be retained.

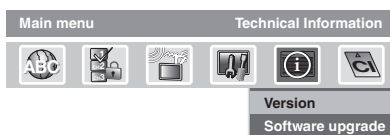
Version/Software Upgrade/Common Interface

Version

You can check the software and hardware versions.

1

Press ▲ or ▼ to select "Version", then press **ENTER**.
The hardware and software versions are displayed.



Software Upgrade

Software Upgrade allows you to download the latest software available on the Engineering channel.

1

Press ▲ or ▼ to select "Software upgrade", then press **ENTER**.



2

If a software upgrade is available from an Over-Air-Download (OAD) then the message "S/W available, do you want to download?" will be displayed - you can then select "Yes" or "No" by pressing ◀ or ▶, then press **ENTER**.

3

If you select the option "Yes" then the Software Upgrade process will be initiated. It will take about 20 minutes and after this process is complete, the TV will be rebooted automatically.

If you select the option "No" you can continue to watch TV programmes as before.

Common Interface

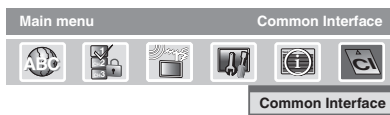
You can access the Common Interface module information from this menu option.

Preparations

Insert CAM into the DVB Common Interface slot on the backside of the TV (see page 3).

1

Press ◀ or ▶ to select "Common Interface" option, then press **ENTER**.



2

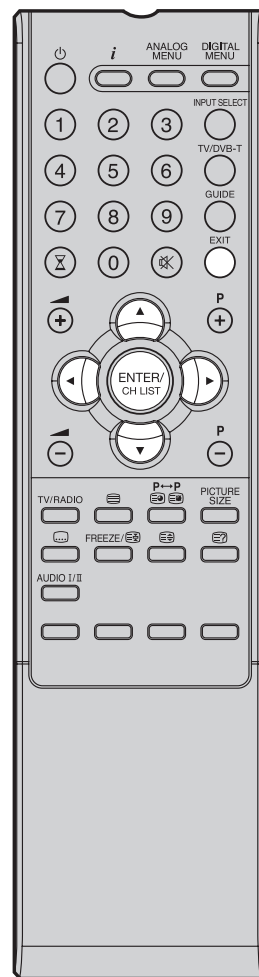
The CAM module name will be displayed. You have to press **ENTER** to view further information.

3

In the CI Menu, CAM specific information such as Module information, Smart card information, Language and Software Download are shown. Press ▲ or ▼ to select information, then press **ENTER** to see detail.

4

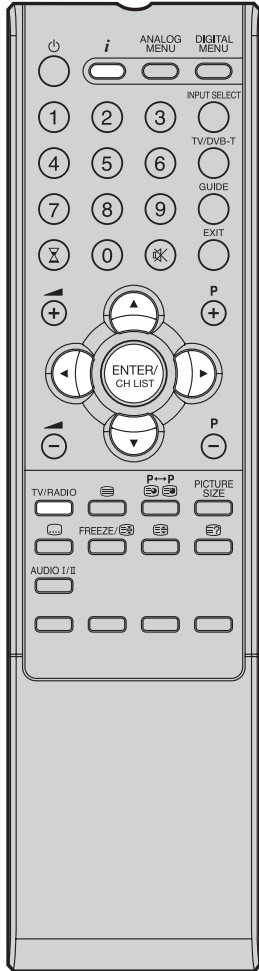
Press **EXIT** to return to the normal screen.



Note:

- During the Software Updating process, do not turn off the unit. At this time you cannot use any of the buttons, apart from ⏻ (STANDBY).
- After the Software Updating process, the Digital Menu memory settings will be lost, so it is necessary to go through the setting up procedures again.

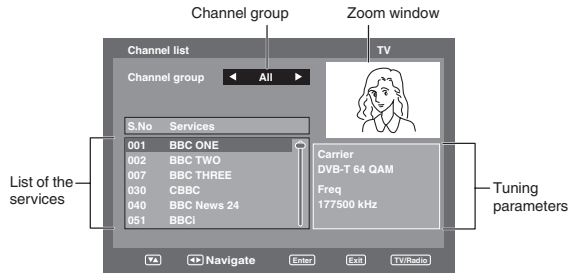
Channel list/Channel banner



Channel list

1

Press **CH LIST** to display the Channel list menu.



2

Select the Channel group (Favourite):

Press **◀** or **▶** to select between Channel groups - you can toggle through All (complete channel list)/Fav1/Fav2/Fav3/Fav4 (see "Favourite" on page 17 for details on setting Favourites).

Select the Services:

List of the services present under the selected Channel group will be displayed in the left side of the menu.

Press **▲** or **▼** to toggle within the service list, then press **ENTER**.

Toggle between the list of TV and Radio services:

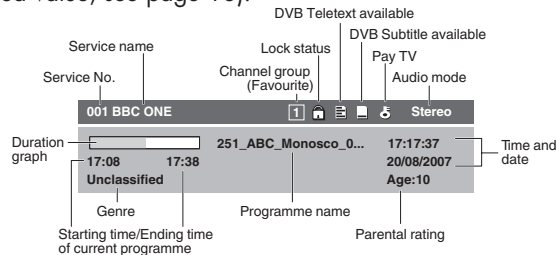
The **TV/RADIO** key is used to toggle between the TV and Radio mode. If you press **CH LIST** when you are in Radio mode then the channel list menu will display the list of Radio services. If you wish to view the list of TV services without exiting the current menu, **TV/RADIO** key should be pressed once.

Channel banner

When you change from one channel to another, the Channel banner will be displayed for the selected service. In the channel banner menu, information such as current date & time, channel name, etc. will be displayed.

1

While watching the service, press **i** to display the Channel banner at any time. It will disappear after the Banner timeout value (this can be adjusted to your preferred value, see page 18).



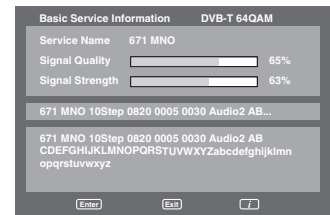
Note:

- If any Channel group doesn't have any service at the time, "No services" and "No Information" will be displayed in the menu.
- The displays of Channel / Service name will be abbreviated depend on its size of the letter.
- Subtitles are displayed on the channel banner. Some broadcasts may not provide this service.

2

Press **i** again to display the Basic Service Information. You can verify the signal strength and quality of the selected service here.

- When the Country setting has been set to FINLAND, press **i** once more to display the advanced detailed information.



3

- To remove the Channel banner immediately, press **i** again.

Multi audio/DVB-Subtitle

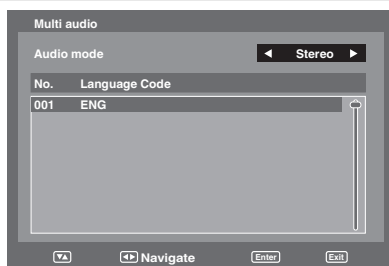
Multi audio

You can select your preferred Audio mode and DVB (digital TV) subtitle Language.

The Multi audio menu will display the Audio mode and Language options available with the current broadcast.

1

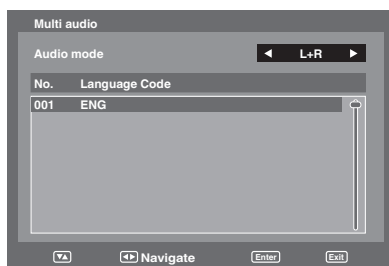
Press **AUDIO I/II** to display the Multi audio menu. The Audio mode and Language code will be displayed if available.



2

To select Audio mode, press ◀ or ▶. In general the below audio modes will be supported in a service. Stereo, Left, Right and L + R. Then press ENTER.

To select a Language code, press ▲ or ▼ to select code within Language code list.



3

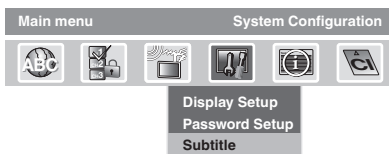
Press **EXIT**. Your selected audio preferences will be saved.

DVB-Subtitle

DVB-Subtitle is a feature supported in DVB (Digital Video Broadcasting) applications in which the service shown can be accompanied by a text display on the screen in parallel with the corresponding audio service. The DVB-Subtitle feature can be enabled or disabled at anytime.

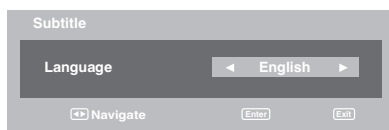
1

Press ▲ or ▼ to select "Subtitle", then press **ENTER**.



2

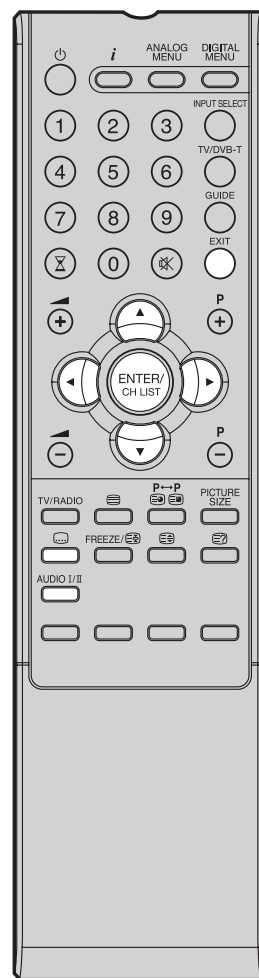
Press ◀ or ▶ to select your desired subtitle language from the available languages.




3

To turn off the DVB-Subtitle, press ◀ or ▶ repeatedly until "Off" appears in the Subtitle menu.

Press **EXIT**. Your selected subtitle language will be saved.

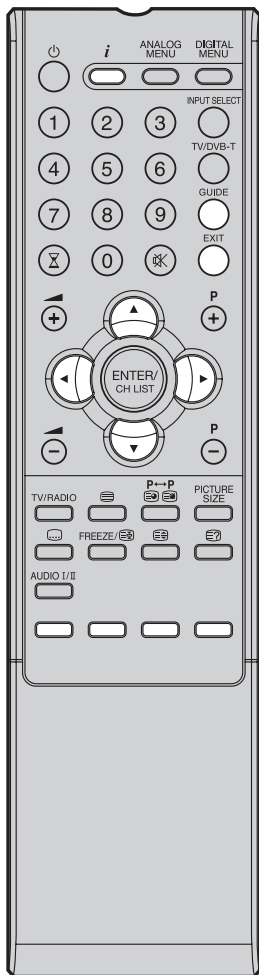


Note:

- DVB-Subtitle can also be changed by pressing of  repeatedly.

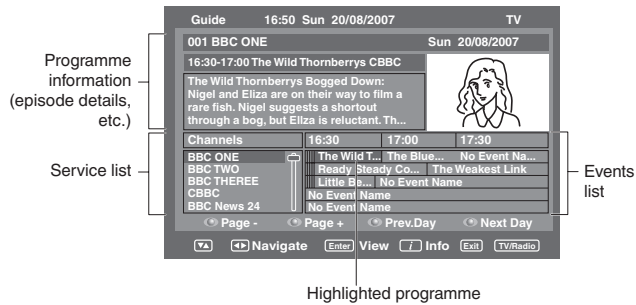
EPG (Electronic Program Guide)

The Guide menu shows the available programme listings for the next 8 days only, including today. However, the guide menu will show "No Event Name" for programmes which are more than 8 days ahead, or for programmes within the 8 days when no programme information is available.



1

Press **GUIDE** to display the Guide menu.



Service list :

Lists all the services that are currently available.

As you scroll through the service list by pressing **▲** or **▼**, the Event list will be refreshed accordingly, and you will see the programme information for the currently highlighted programme.

To scroll through the service list page by page, press **Red** or **Green** Key.

Events list :

List the events in a grid of rows and columns.

Each row shows the list of events that are available, for the corresponding service in the service list. Within each row, you can press **◀** or **▶** to navigate through the rest of the events.

You can easily move to the Previous day or Next day in the Events List by pressing **Yellow** or **Blue** key (the date of the programme information you are currently viewing is shown in the top right hand corner).

The full Event name along with the duration of the event will be displayed in the bar above. Event title will be displayed only if available otherwise "No Description" message will be displayed.

2

From within the Guide menu, you can open the Description menu for the currently highlighted programme by pressing **i**.

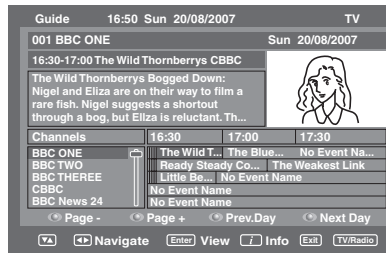
The Guide/Description menu shows the extended event description of an event. You can scroll and view the complete event description of the event using **▲** or **▼**.

To return to the Guide menu, press **i**.
To clear the menu screen, press **EXIT**.

EPG Timer

You can choose whether or not the screen switches on when the timer event begins - please see page 12 (Rec screen status (LCD Power on/off)). This is so that if you are using the timer to make a recording to your VCR or other device, the TV screen will not switch on unless you want it to. If you try to switch to another channel while a timer event is in progress, the following message will appear: "WARNING: CHANGING THE CHANNEL WILL INTERRUPT YOUR EVENT TIMER. ARE YOU SURE YOU WANT TO PROCEED? YES/NO". Select Yes or No according to your wishes.

1
Press **GUIDE** to display the Guide menu. Then press **▲/▼/◀/▶** to highlight the programme you want to set as a timer event, then press **ENTER**.



Note:

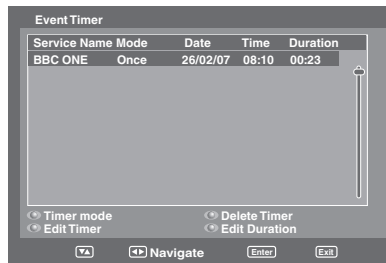
- If you select an event which has already started, the selected program will be displayed on the screen, as you cannot set the timer for a programme which has already started.
- To display the stored timer events, press **GUIDE** twice. The EPG Timer menu (see step 3 below) will appear. You can also delete or change the frequency (Once / Daily / Weekly) of the stored timer events (but please note that you cannot edit the time details that have been set from the EPG).

2

The confirmation banner will be displayed. Press **◀** or **▶** to select "Yes" or "No", then press **ENTER** (the selected option is shown in blue).

3

The EPG Timer menu will appear. Press the **Red** key to set the Timer mode for a selected event.

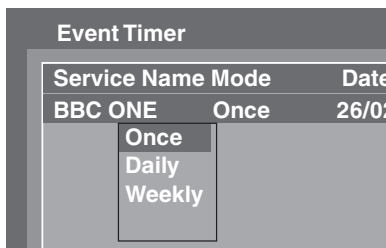


4

The Timer mode specifies the frequency of Timer wake-up which can be set as Once, Daily or Weekly. Press **ENTER** to save the selected Timer mode.

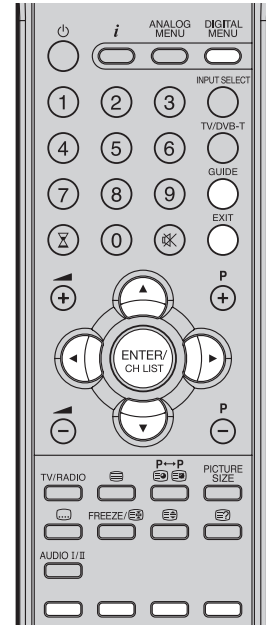
Note:

To delete a timer event, select the specified event, then press the **Green** key.



5

To return to the Guide menu, press **DIGITAL MENU**. To clear the menu screen, press **EXIT**.



Note:

- A maximum of eight Timers can be programmed.
- If the EPG Timer starts when it is already switched on, it will start at the exact time that is set. If it starts from the standby mode, it will begin 20 seconds in advance of the stated time.
- You cannot hasten the start time from the original start time of the Event.
- You cannot set with the same date and time of another Event.
- Press the **Yellow** key to change the start time of the event.
- Press the **Blue** key to change the time duration of the event.
- If the EPG Timer begins during standby mode, the **⏻** (On/timer/Standby) indicator on the unit will be lit in orange. This is to indicate that an EPG Timer event has begun in standby mode.

PC connection

As PCs are sometimes supplied with a "conventional" CRT monitor, you may need to adjust the display settings of your PC's graphics card, otherwise the pictures may not appear correctly. Switch on your PC (still with your original monitor) - select "1280 x 768" for the screen resolution, and select 60 Hz for the on-screen refresh rate. Switch off your PC, then connect it to your LCD TV while both items are still switched off.

Select PC input

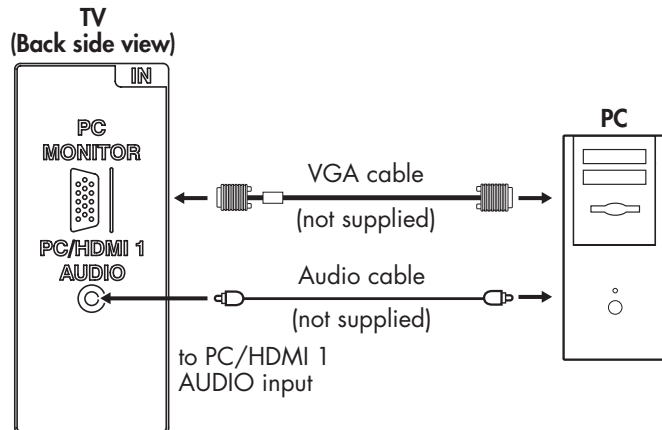
Switch on the LCD-TV.
Select the PC input mode (see page 5).

Note:

- If no signal or a signal with a non-supported resolution is connected, NO SIGNAL is displayed
- As this LCD-TV is not a PC monitor correct display cannot be guaranteed for every PC / graphics card.
- Digital PC connection to HDMI-input is not supported.
- If by any chance the PC should create a picture on the HDMI-input then there can be no guarantees for its correct representation. Digital PC connection is not an assured function of this TV appliance.
- Select WXGA "ON" in the menu according to the following table:

Supported PC resolutions		
WXGA	resolution	fps (Hz)
OFF	640x480	60
OFF	720x400	70
OFF	800x600	60
OFF	1024x768	60
ON	1280x720	60
ON	1280x768	60
ON	1360x768	60

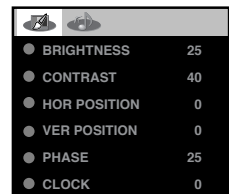
Use a PC-VGA cable (not supplied) to connect the LCD-Monitor to your PC. Make the connections carefully so as not to break or bend the contacts inside the plug.



Example: Adjust the contrast.

1

During PC mode press **ANALOG MENU**.
The Menu will appear on the screen.



2

Select **CONTRAST**, then press **ENTER**. Press ◀ or ▶ to adjust **CONTRAST**.

3

Press **EXIT** to return to the normal screen.

Description about the each setting option:

PICTURE Menu

BRIGHTNESS and CONTRAST: You can adjust these according to your personal preferences.

HOR POSITION and VER POSITION: to adjust the horizontal and vertical placing of the image.

PHASE and CLOCK: eliminates the horizontal (PHASE) and vertical (CLOCK) interfering lines (Picture width).

RED/GREEN/BLUE: influences the colour balance.

BACKLIGHT: Press ◀ or ▶ to adjust the level you require.

WXGA INPUT: When you input an WXGA signal, set this option to "ON".

RESET: Press **ENTER** to reset brightness, contrast, red, green, blue and BACKLIGHT to the factory preset values.

AUDIO Menu

BASS/TREBLE/BALANCE: Tone setting menu.

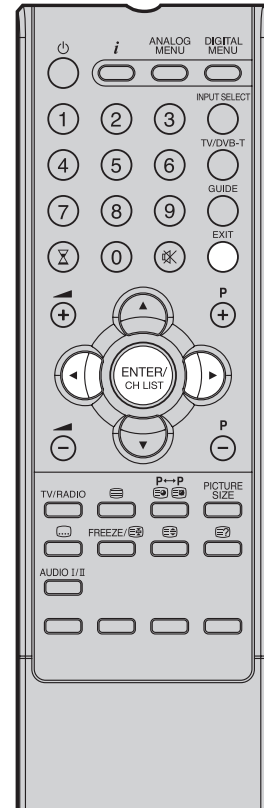
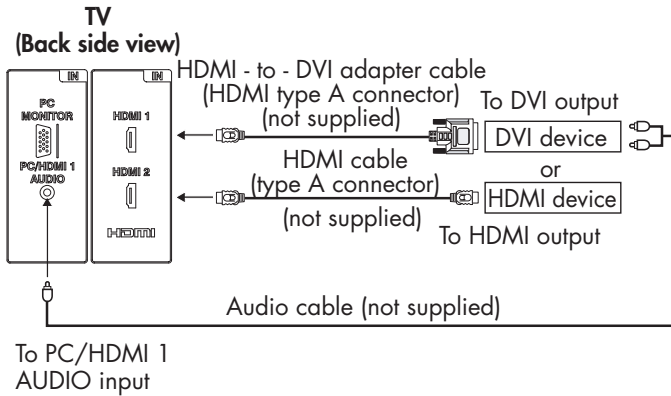
SURROUND: Press ◀ or ▶ to select surround sound feature ON or OFF (see page 12).

SPEAKERS: Press ◀ or ▶ to select SPEAKERS ON or OFF (see page 12).

RESET: Press **ENTER** to reset bass, treble and balance to the factory preset values.

Connecting an HDMI or a DVI device to the HDMI input

The HDMI 1 input receives digital audio and uncompressed video from a HDMI equipped device or uncompressed digital video from a DVI equipped device. When you connect the HDMI 1 to a DVI device with a HDMI-to-DVI adapter cable, it only transfers the video signal, so it is necessary to use separate analogue leads to transfer the audio signals. Select the HDMI input mode (see page 7).



Selecting the HDMI audio input source

You must choose the appropriate HDMI audio input setting for each connection, depending on whether the source is equipped with a DVI or HDMI socket.

1

Select HDMI1 AUDIO, then press **ENTER**. Press **◀** or **▶** to select HDMI or DVI.



2

Press **EXIT** to return to the normal screen.

Note:

- Follow the user's manual that came with the HDMI-system, which you try to connect to this TV. if there is no picture available via HDMI-connection, do connect via SCART-cable first. Use the HDMI-system's remote-control to call the HDMI-system's setup-menu onto the screen. Follow the HDMI-system's manual, to set its video-output to HDMI. When successfully set to HDMI, select this TV's HDMI-input, as described in here on page 5 (Select Video Input).
- The HDMI-2-connection has no analogue audio input. If you want to connect a DVI appliance to it, you will not hear a sound through the TV loud speakers. If you want to hear the sound of a DVI appliance through the TV loud speakers then connect the DVI appliance to HDMI-1.

Note:

- This set is classed as "HD-Ready". This means that it is capable of displaying HD (High Definition) signals when connected to a suitable HD source, such as an HD receiver or DVD player that has HD capability, via HDMI, DVI, or Component Video connections.
- Some devices may not operate properly with the TV.

HDMI

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



Connection to other equipment

1. Connecting to other equipment

Attention: Preparation:

- Disconnect all equipment from the AC-supply, to prevent any possible damage.
- Make the necessary connections.
- Make sure all connections are safe & secure before reconnecting your equipment the AC-supply.

Pls connect your satellite-receiver or DVD player via SCART. Make sure your SCART cable's crosssection is at least 1 cm or more. SCART cables with less thickness may cause visible noise.

Pls make the following settings inside your receiver's / DVD-player's setup-menu:

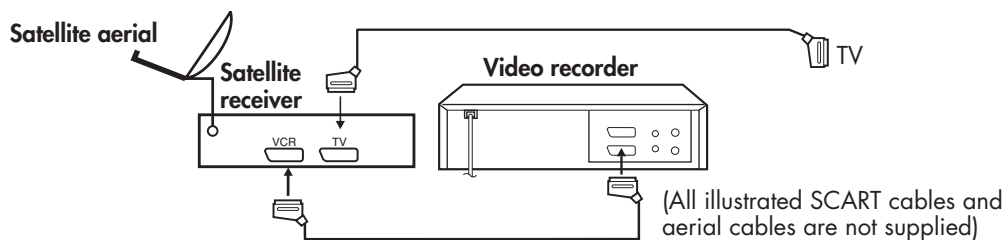
Video signal: RGB, TV format: 16:9. Set the volume of the satellite receiver/DVD player to the maximum. Adjust the volume as you prefer using only the remote control on the TV.

If you miss to make these settings properly, picture quality will be inferior and parts of the picture might be missing. This is not a fault of this TV-set.

In case you need help to make this adjustment with your satellite-receiver / DVD-player, pls consult the related instructions or contact the supplier or maker of those apparatus for support.

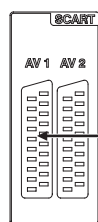
Pls use the satellite's remote-control handset to select Teletext or desired TV-station. Generally it is not possible to store satellite TV-stations into a standard TV.

If the TV does not automatically switch to AV-1, please select INPUT AV1 manually, as seen on page 5.

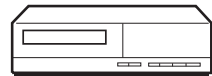


2. Connect video recorder (e.g. to record from DVB-T)

TV (Back side view)



Video recorder to AV 1



(All illustrated SCART cables are not supplied)

Programme the video recorder timer to the desired time. The TV appliance cannot switch the video recorder on or off.



Connection to other equipment

3. Connecting an audio system

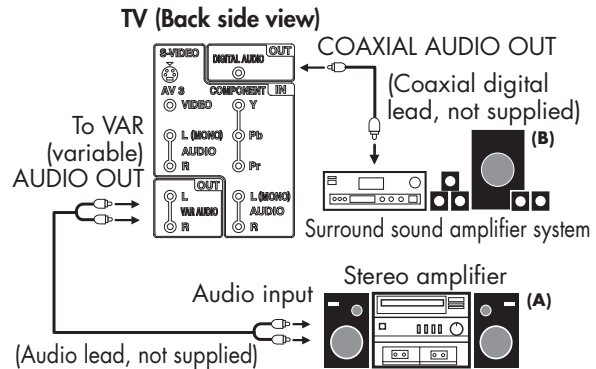
This connection allows you to hear the TV sound through external speakers connected to an audio amplifier. To control the audio through the amplifier turn on the TV and the amplifier set the volume of both to a moderate level, and turn off the TV's built-in speakers (see "SPEAKERS" on page 12). Use a stereo RCA/Phono audio lead to connect the VAR (Variable) AUDIO output sockets to a spare input on your hi-fi amplifier (A), for example Line-in or AUX (please consult your hi-fi instructions for details). If you have a surround sound amplifier/decoder (B) with a coaxial digital input, you can connect the Coaxial Digital Audio Output to it, using a suitable coaxial digital lead. This connection carries the audio signal from this set's Digital channels only.

Note:

- If the volume of either the TV or the amplifier is set to 0 (or OFF), you will not hear any sound.

Note:

- The Bass/Treble/Balance adjustments (see page 12) only function with the sound from the TV speakers - it does not affect the audio output sockets.
- Many TV broadcasts are transmitted with surround sound (e.g. Dolby Surround) as well as stereo. If you connect the VAR (Variable) AUDIO output sockets to a suitable surround sound amplifier system, it will be able to decode the surround information from the stereo signal output from the TV.

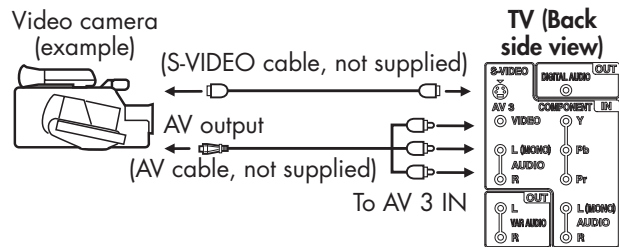


4. Connecting a Video camera or Games console

Connect the Video camera (or Games console, etc.) to the TV with an appropriate AV cable (RCA/Phono) as shown. Select the AV3 input mode to view (see page 5).

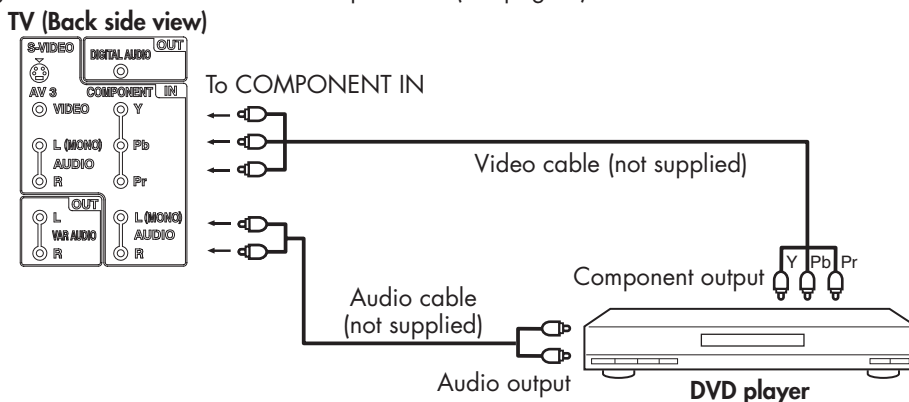
Note:

- If you have a camcorder with S-video, use an S-video cable instead of a standard video cable. Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.
- When you input the PAL-M signal to AV 3 input, select AV COLOUR setting to AUTO, otherwise the monochrome images will be displayed.



5. Connecting to a DVD player or other AV device with Component Video outputs

If your DVD player (or other device) has Component Video output jacks, use a suitable set of leads (RCA/Phono) to connect these to the Component Video inputs on this TV as shown - it can greatly enhance the picture quality and performance. Please remember that you will also need to connect separate leads (RCA/Phono) for the audio signals. Select the COMPONENT input mode (see page 5).



Note:

- The Component Video input of this unit are for use with equipment which outputs interlaced signals (PAL: 576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).

Connection to other equipment

6. Setting of SCART socket

1

In , select AV1 INPUT or AV2 INPUT, then press **ENTER**.

2

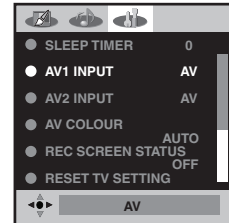
Selecting the "AV1 INPUT" or "AV2 INPUT" type - this ensures that the TV processes the input signal correctly.

Press ◀ or ▶ to select AV, S-VIDEO or RGB.

AV: Composite signal (e.g. from a video recorder).

S-VIDEO: S-Video signal (e.g. from DVD player with S-Video output).

RGB: RGB signal (e.g. from DVD player with RGB output).



3

Press **EXIT** to return to the normal screen.

AV colour adjustment

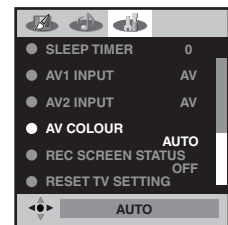
The AV Colour setting only applies when viewing devices connected to the AV inputs.

1

In , select AV COLOUR, then press **ENTER**.

2

Press ◀ or ▶ to select AUTO.



3

If AUTO option does not work, press ◀ or ▶ to select desired colour (e.g. NTSC 3.58).

4

Press **EXIT** to return to the normal screen.

Note:

- PAL is the colour system used in UK. NTSC 3.58 is used in the USA, PAL 60 used in UK by some video recorders, which play NTSC video tape recording.

If the picture shows horizontal stripes:

Set to AUTO as the description above.



Fault finding guide

Symptom	Cause	Solution
TV does not operate.	Internal error may occur.	Unplug the unit for 1 minute, then plug it back in.
No standby light.	Is your TV plugged in?	Plug your TV into main socket outlet.
No picture, no sound.	Is the power for your TV off?	Press ⏻ (Power) on the unit or press ⏻ (Power) on the remote.
	Has the fuse in the mains plug blown?	Replace fuse in mains plug.
No reception.	Is your TV plugged in?	Plug your TV into mains socket outlet.
	Is the aerial connection lead broken or damaged?	Check all aerial connections for damaged wires. If necessary replace with new leads.
	Possible station trouble.	Move the aerial away from areas of possible interference. If you live in a known poor reception area, try using an aerial booster to improve the quality of the signal.
	Is the power for your TV off?	Press ⏻ (Power) on the unit or press ⏻ (Power) on the remote.
	Have you pressed ⏻ (MUTE) ? Have you set the volume at minimum?	Press ⏻ (MUTE) again or increase the volume using volume control.
Unable to select channel numbers 8 through to 99.	During automatic tuning your signal didn't find enough channels to place them in numbered positions?	If a television station has been missed try repeating the automatic tuning procedure.
Poor or no colour.	Aerial or connection lead is not connected or is damaged.	Check all aerial connections for broken or damaged wires. If necessary replace with new leads. Try using aerial booster to improve the quality of the signal.
No Teletext or strange characters or letters on screen.	Colour control is not adjusted.	Adjust the colour.
	Aerial connection is poor or possible station trouble.	Check aerial connections for broken wires or try another station.

Fault finding guide

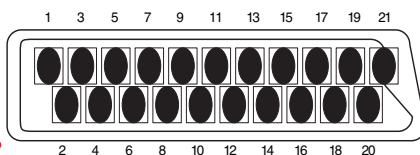
Symptom	Cause	Solution
Remote control does not work or operates erratically.	Weak or exhausted batteries.	Replace the batteries.
	Batteries placed in the wrong way.	Check that you have put the batteries in the remote control the right way around.
Unable to playback video tapes.	During automatic tuning your VCR was not switched on.	Before starting the automatic tuning make sure that your TV is switched on and that a tape is playing.
Unable to watch satellite stations.	During automatic tuning your Satellite/Cable box was not switched on.	Before starting the automatic tuning make sure that your Satellite/Cable box is switched on and that a channel has been selected for example BBC News 24.
While viewing a DVB (digital) channel, there is sound but no picture.	Received channel has audio content only.	Some channel offers audio content only. It is normal.
Blocky image or image stops intermittently.	Digital signal strength is low.	Check all aerial connections. Move the aerial away from areas of possible interference. Try using an aerial booster.
Some digital channels cannot be viewed.	Some channels are encrypted and are only available via subscription.	Contact the service provider to subscribe.
"Database empty" message appears on the screen.	The auto tuning process has not been successful.	Check all aerial connections and try auto tuning again.
No sound when connecting to external source via HDMI to HDMI lead.	HDMI input mode is set to wrong option.	Set the input mode for the relevant HDMI socket to HDMI.
No sound when connecting to external source via HDMI to DVI lead.	HDMI input mode is set to wrong option.	Set the input mode for the relevant HDMI socket to HDMI.
	Audio leads have not be connected.	Ensure that seperate audio leads are connected to the relevant audio input socket.

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

Scart socket information/Specifications

By using a SCART lead you can improve the quality of picture and sound.

Rear of the TV



- | | | |
|-------------------------|------------------------|------------------------|
| 1. Audio output (right) | 2. Audio input (right) | 3. Audio output (left) |
| 4. Audio common earth | 5. Blue earth | 6. Audio input (left) |
| 7. Blue input | 8. Function switch | 9. Green earth |
| 10. No connection | 11. Green input | 12. No connection |
| 13. Red earth | 14. No connection | 15. Red input |
| 16. Fast blanking input | 17. Video earth | 18. Earth |
| 19. Video output | 20. Video input | 21. Socket screening |

	TV26RN20D	TV32RN20D
Colour System:	PAL, SECAM	
Broadcasting System:	Analogue: UK, IR, CCIR, FRENCH System, B/G, D/K, I/I, L Digital: DVB-T (OFDM 2k/8k 16QAM/64QAM) AV Input receivable: NTSC 3.58, NTSC 4.43/PAL 60)	
Preset channels:	Analogue channels (99) + Digital channels (Carrier 200/Service1000)	
Frequency Range:	Analogue: IreE2~E4, X~Z+2, S1~S10, E5~E12, S11~S41, E21~E69 Digital: E5~E12, ItaE~G, F1~F6, Rus6~12, E21~E69	
Power Supply:	AC 220~240V, 50Hz/60Hz	
Power Consumption:	Operation: approx. 115W Standby: approx. 1W	Operation: approx. 160W
LCD:	26.01" TYPE (66.05 cm visible) TFT low-glass Active Matrix Colour LCD, 1366 x 768 Pixel	31.51" TYPE (80.04 cm visible)
Terminals	Antenna input: UHF/VHF 75Ω Din type AV 1: SCART (AV input, RGB input, Y/C input, TV output) AV 2: SCART (AV input/output, RGB input, Y/C input) AV 3: RCA pin (AV input) COMPONENT: COMPONENT (Y/Pb (CB)/Pr (CR) input), RCA (Audio input) HDMI 1: HDMI, Ø 3.5 mm jack (Audio input*) HDMI 2: HDMI, Ø 3.5 mm jack (Audio input) PC: Ø 3.5 mm jack (Audio input*), 15 pin mini D-sub (PC/Component) C. I. (Common Interface): EN50221 DIGITAL AUDIO OUTPUT: RCA pin (Audio) OUTPUT: RCA pin (Audio) Headphones: Ø 3.5 mm jack (Audio output)	
Audio Output Power:	10W x 2 (MAX)	
Surrounding temperature:	Operation: 5°C ~ 40°C Storage: -20°C ~ 60°C	
Operating Humidity:	Less than 80%RH	
Dimensions:	663 (W) x 214 (D) x 495 (H) mm	796.5 (W) x 214 (D) x 581 (H) mm
Weight:	approx. 9.6 kg (w/o Accessories)	approx. 11.8 kg (w/o Accessories)
Accessories:	Remote control unit Batteries (2 x R6/AA) AC mains lead	

* Audio input that share with HDMI 1 and PC.

Weight and dimensions are approximate. Because we continually strive to improve our products we may change specifications and designs without prior notice.



After Sales Service

Whilst this products have been designed and manufactured to a very high standard and have been subjected to rigorous quality control, regrettably problems can sometimes occur.

In the unlikely event of a manufacturing defect occurring during the first twelve months of ownership, your dealer, Mail Order or Catalogue Company, from whom you purchased the product, will arrange for free-of-charge service to be carried out. However as this may NOT include a home visit, please ensure that you have received details of their respective service procedures and policy at the time of purchase.

Free-of-charge service covers the product for domestic use only, and does not cover any fault or defect caused by accident, misuse, lightning strike, fire or water damage, neglect, connection to an incorrect mains voltage or inadequate aerial, cable or satellite installation.

None of the foregoing comments or statements affect your Statutory Rights as currently provided for by law in the United Kingdom.



Electrical and electronic equipment should never be disposed of with general household waste but must be separately collected for their proper treatment and recovery.

The crossed out bin symbol, placed on the product, reminds you of the need to dispose of the product correctly at the end of its life.

In this way you will assist in the recovery, recycling and reuse of many of the materials used in this product.

Where possible recycle your packaging.

With your help it is possible to reduce the amount of electrical and electronic waste ending up in landfill and to improve quality of life by preventing the release of potentially hazardous substances into the environment.



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