Notice

Read this manual carefully and make sure you understand the instructions provided. For your safety, check what the result of each action will be.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	**To reduce the risk of electric shock,** do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel. Indicates a situation which, if not avoided, could damage the equipment or other apparatus.
	This symbol indicates dangerous voltage inside the TV that presents a risk of electric shock or personal injury. Indicates a hazardous situation which, if not avoided, could result in serious injury.
	This symbol indicates important instructions accompanying the TV.
	Instruction about the 'WEEE' Symbol This product should not be disposed with other household wastes at the end of its working life. Please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. This will prevent possible harm to the environment or human health from uncontrolled waste disposal. Domestic users: Please contact either the retailer where you purchased this product or their local government office for details of where and how they can take this item for environmentally safe recycling. Business users: Contact your supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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Thank you for purchasing a HUMAX TV. Please read this user manual carefully in order to safely install, use and maintain the TV at maximum performance. Keep this user manual next to your TV to ensure the best performance possible.

This user manual covers the 32 inch, 22 inch and 19 inch models.

The illustrations and on-screen displays in this user manual are for explanation purpose and may vary slightly from the actual operations.

General Safety Precautions

Power

- Plug the power cord into the correct power outlet. An unstable connection may cause fire.
- Do not use damaged power cords or plugs, or use a loose wall outlet. This may cause electrical shock or fire.
- Do never touch the power cord with wet hands. This may cause electrical shock.
- Do not use multiple devices with one outlet. Overheating the outlet may cause fire.
- Do not bend or pull out the power cord using force, nor place heavy objects over it. This may cause electrical shock or fire.
- Make sure you pull out the power cord holding the plug itself. An internal disconnection may cause fire.
- When removing the product, turn off the power and pull out the plug from the power outlet. Also make sure other devices including the antenna or the connectors are removed from the outlets before relocating the product. Otherwise you may suffer electrical shock or fire due to a damaged power cord.
- The mains plug shall remain readily operable.
- Plug as disconnection device shall remain to be readily approached by user.

Installation

- Keep the product away from any heating devices. Placing it close to a heating device may cause fire.
- Keep the power cord away from any heating devices. A melted coating may cause fire or electrical shock.
- Place the antenna as far away as possible from any high-voltage cables.
  Touching the high voltage wiring may cause fire or electrical shock.
- Do not install the product in oily, smoky or humid (or exposed to rain/water) places or automobiles. This may cause fire.
- The connection between the external antenna and the internal wiring should be turned inside to avoid any inflow of rain. Exposing the LCD to water (rain) will cause electrical shock or fire.
- Do not use the product in humid places. Humidity will shorten the life of the product and may cause an electrical shortage or fire.
- Do not use the product in places with low temperatures (below 5°C).
- Avoid installing the product in poorly ventilated places. Internal overheating may cause an electrical shortage and fire.
- Be sure not to cover the ventilator (with a table-cloth or curtain, etc.). Internal overheating may cause an electrical shortage and fire.
- Do not install the product in an unstable place or on a small stand. The product may cause serious injury, if it falls on somebody (especially children). Install it on an even, stable place as it is front-heavy.
- Do not install the product on the floor. Someone (especially children) may trip over it.

Usage

- Unplug the product from the wall outlet and do not touch the antenna during a thunderstorm. This will prevent damage to the unit due to lightning and power-surges.
- Keep dust or water away from the pins or touching points of the power plug.
  This will prevent electrical shock or fire.
- Keep children from climbing over the product. The device may cause serious injury or death if it falls on them.
- Do not place anything over the product that children may try to reach. The device may cause serious injury or death if it falls on them.
- When removing the battery from the product, keep it out of children's reach.
  If a child swallows a battery, consult a doctor immediately.
- Use only specified batteries and do not use an old battery along with a new one. Align the batteries according to the correct polarity (+ or -). Aligning them incorrectly may cause an internal explosion or a leakage of the internal liquid, leading to electrical shock, physical damage or pollution of the surroundings.
- Do not insert any metal or a flammable object or an alien substance into the ventilator, the AV input terminal or the slots for the modules or Smartcards. This may cause damage to the product and reduce its life span.
- Do not disassemble, repair or reconstruct the product at your discretion. This may cause electrical shock or fire. Contact your local customer support.
- Keep the product away from inflammable sprayers or ignitable objects.
  Exposure to these may cause explosion or fire.
- Do not place water-pots, flower vases, beverage cans, small metals or heavy objects over the product. Contact of these contents with the product may cause electrical shock or fire, while any falling of the product may cause injury.
- If the product breaks down, turn off the power and unplug it from the outlet before contacting Customer Support. This will protect you from electrical shock or fire.
- When you notice something strange like an odd noise, smell something burning or see smoke, unplug the power cord and contact your local Customer Support. Do this to avoid electrical shock or fire.
- Do not use sharp tools such as a pin or a pencil near the TV, as they may scratch the LCD surface.
- Do not use a solvent, such as benzene, to clean the TV, as it will damage the LCD surface.

Cleaning

- Unplug the power cord before cleaning the product. This may cause electrical shock or fire.
- Do not sprinkle water on the product. This may cause electrical shock or fire.
- Use only a soft dry cloth as the surface is weak on scratch. Do not use chemicals like wax, benzene, alcohol, thinners, aroma, lubricator or cleanser.

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Table of Contents

Package Contents

Please check that the following contents are included with your TV.
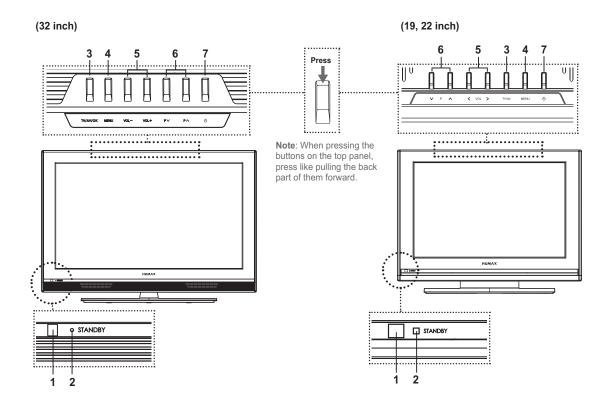
User's manual	**Remote control**	**AAA batteries (X2)**

Power cord (for 32 inch)

Front & Top Panel

(32 inch)   **(19, 22 inch)**

3 4   5   6   7

Press

3   4   5   6   7

Note: When pressing the buttons on the top panel, press like pulling the back part of them forward.

1   2   1   2

1   Remote control sensor
Receives commands directly from your remote control and passes them on.

2   Standby indicator
Turns on blue during the standby mode.
Turns on red during the standby mode and turns on green during the operation mode. (LIT32-Combo only)

3   TV/AV/OK button
Displays input source or confirms the selection.

4   MENU button
Displays the on-screen menu.

5   VOLUME buttons
Adjusts the volume.

6   P ∨ / P ∧ buttons
Selects channels.
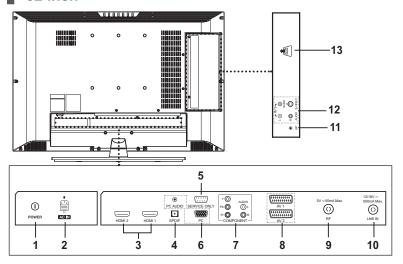
7   Standby button
Switches between operation and standby modes.

Note: If the standby indicator lamp is unlit, press the main power switch on the rear of the TV. (32 inch)

Rear & Side Panel

32 inch

1 MAIN POWER switch
   Turns the power on/off.

2 AC INPUT
   Connects the power cord.

3 HDMI INPUT (HDMI1/HDMI2)
   Receives uncompressed digital audio and video signals from the device that
   supports High Definition Multi-media Interface (HDMI).

4 SPDIF OUTPUT
   Connects to a digital audio component (Digital TV audio output only).

5 SERVICE ONLY (RS232C)
   Connects to the PC to update the software of the TV.

6 PC/PC AUDIO INPUT
   Connect to the video and audio output jacks on your PC.

7 COMPONENT INPUT
   Connects to video (Y/Pb/Pr) and audio (L/R) components.

8 SCART INPUT/OUTPUT (AV1/AV2)
   Inputs or Outputs for external devices, such as VCR, DVD, video game
   console or video disc players.

9 RF INPUT
   Connects to an antenna or a cable system.

10 LNB INPUT
   Connects to a satellite antenna cable.

11 H/P Connects to headphones.
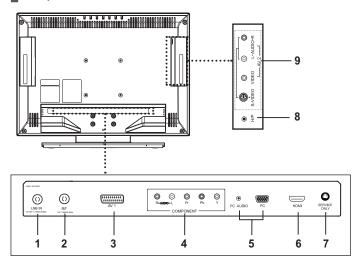
12 COMPOSITE/S-VIDEO INPUT (AV3)
   Connects to the audio and video (or S-Video) output jacks of a camcorder,
   video game console and similar devices.

13 CI (Common Interface) SLOT
   A slot for a CI Module.

19, 22 inch

1 LNB INPUT
Connects to a satellite antenna cable.

2 RF INPUT
Connects to an antenna or a cable system.

3 SCART INPUT/OUTPUT (AV1)
Inputs or Outputs for external devices, such as VCR, DVD, video game console or video disc players.

4 COMPONENT INPUT
Connects to video (Y/Pb/Pr) and audio (L/R) components.

5 PC/PC AUDIO INPUT
Connect to the video and audio output jacks on your PC.

6 HDMI INPUT
Receives uncompressed digital audio and video signals from the device that supports High Definition Multi-media Interface (HDMI).

7 SERVICE ONLY (RS232C)
Connects to the PC to update the software of the TV.

8 H/P Connects to headphones.

9 COMPOSITE/S-VIDEO INPUT (AV2)
Connects to the audio and video (or S-Video) output jacks of a camcorder, video game console and similar devices.

**10 CI (Common Interface) SLOT**
A slot for a CI Module.

Remote Control Buttons

▌ NR-242 (for LDE-32SST, LDE-32DST, LDE-22DST, LDE-19DST)

This remote control (NR-242) is for LDE-32SST, LDE-32DST, LDE-22DST and LDE-19DST models

TV/AV
Displays all available input sources.
Press the ▲/▼ button to select a
required input source.

MUTE
Mutes the sound. To cancel, press
the MUTE, VOL+, or VOL- button.

SLEEP
Selects a preset time interval for
switching the TV to standby mode
automatically.

PIC MODE
Selects the picture mode (Standard,
Bright, Soft or Manual).

SND EFFECT
Selects the sound effect (Flat,
Speech, Movie, Music, or User).

WIDE
Select the aspect ratio.

Coloured Buttons
Used for interactive applications in the
EPG, Edit Channels and Teletext mode.

EPG
Displays the Electronic Programme
Guide (EPG) in Digital TV input.

BACK
Returns to the previous display.

MENU
Displays the On Screen Display
(OSD) menu.

EXIT
Exits from the currently displayed menu.

Arrow (▲/▼/◄/►) buttons
Controls the selection in the On
Screen Display (OSD) menu.

OK
Confirms (save or enter) your choice in
the On Screen Display (OSD) menu.

STANDBY
Switches between operation and
standby modes.

SNOOZE
Switches into the standby mode
momentarily.

Number (0~9) buttons
Enters the channel number for direct
display. Used to enter digit numbers.

FAV
In Analog TV input mode, switches
to a favourite channel. Circulates
through favourite channels in
sequent order while watching TV.
In Digital TV input mode, display the
favourite channel list.

LIST
Displays the channel list.

VOL+/-
Adjusts the volume.

P+/- (Page)
Switches channels or pages.

TV/RADIO
Switches between digital TV and
radio modes.

INFO
Displays information on the current
channel or input.

TELETEXT Function Buttons

▤ (Teletext On/Off)
Activates or deactivates the teletext service.

▥ (Mix)
Overlaps the teletext with the broadcasting screen.
Adjusts the opacity to the background in Teletext mode.

▤ⅰ (Index)
Displays the teletext index page.

▤x (Cancel)
Displays the TV programme when searching for the new teletext page.

▤? (Reveal)
Shows the hidden information.

▤M (Mode)
Selects the teletext mode (LIST/FLOF)

▤⬍ (Size)
Displays the double-size letters.

▤▤ (Hold)
Holds the current teletext page not updating it.

▤0 (Subpage)
Displays the available sub-page.

PIP (32" only)
Turns on and off the PIP mode.

SIZE (32" only)
Changes the size of the sub screen. (Small or Large)

SEL (32" only)
Selects the main or sub screen.

POS (32" only)
Changes the position of the sub screen.

DTV SETUP
Displays the menu for Digital TV setup.

OPT +
Displays the channel options while watching a programme in Digital TV input.

▶◀ (FREEZE)
Freezes the TV screen you are watching in Digital TV input. Play the audio continuously.

◁? (SOUNDTRACK)
Selects the sound mode (Stereo, Mono, etc.) in Analog TV input or the soundtrack list in Digital TV input.

▭ (Subtitle)
Displays the subtitle language list in Digital TV input.

HUMAX
NR-242

NR-243 (for LIT32-Combo, LIT22-Combo, LIT19-Combo)

This remote control (NR-243) is only for LIT32-Combo, LIT22-Combo and LIT19-Combo models and the Universal Remote Control allows you to control both your TV and STB simultaneously. It can control the following HUMAX STB(set-top-box) models; DTT-3500, DTT-4500, and HDCI-2000. For detailed information about buttons for STB, refer to each STB user's manual.

DTV
Changes the remote into TV operating mode.

STB
Changes the remote into STB operating mode.

TV/AV (TV mode only)
Displays all available input sources. Press the ▲/▼ button to select a required input source.

PIC MODE (TV mode only)
Selects the picture mode (Standard, Bright, Soft, or Manual).

SND EFFECT (TV mode only)
Selects the sound effect (Flat, Speech, Movie, Music, or User).

MUTE (TV mode only)
Mutes the sound. To cancel, press the MUTE, VOL+, or VOL- button.

Coloured buttons
Used for interactive applications in the EPG, Edit Programmes, and Teletext mode.

EPG
Displays the Electronic Programme Guide (EPG) in DTV or STB mode.

BACK
Returns to the previous display.

MENU
Displays the TV main menu in TV mode and displays STB main menu in STB mode.

EXIT
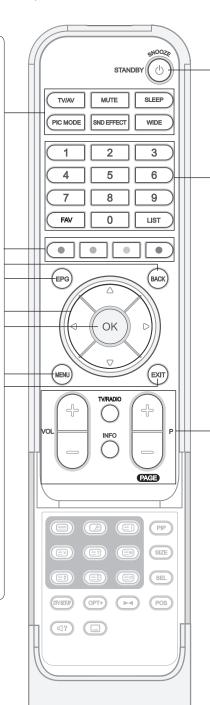Exits from the currently displayed menu in TV, DTT-3500 and DTT-4500.
In HDCI-2000, also returns to the previous menu.
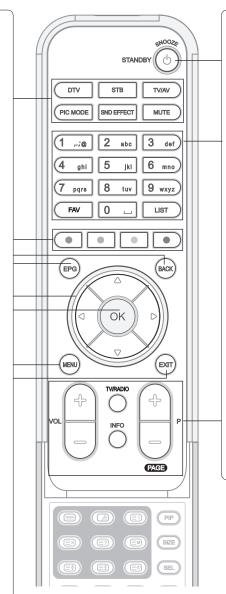
Arrow (▲/▼/◄/►) buttons
Controls the selection in the On Screen Display (OSD) menu.

OK
Confirms (save or enter) your choice.

STANDBY
Switches your TV or STB into operation or standby modes.

SNOOZE
Switches into the standby mode momentarily.

Number (0~9) buttons
Enters the channel number for direct display. Used to enter digit numbers. Supports SMS function in DTT-3500 and DTT-4500.

FAV (TV mode only)
In Analog TV input mode, switches to a favourite channel. Circulates through favourite channels in sequent order while watching TV.
In Digital TV input mode, display the favourite channel list.

LIST
Displays the channel list.

VOL+/- (TV mode only)
Adjusts the volume.

P+/- (Page)
Switches channels or teletext pages. In HDCI-2000, not switches the pages.

TV/RADIO
Switches between digital TV channels and digital radio channels. Not used in DTT-4500.

INFO
Displays information on digital channels and programmes.

TELETEXT Function Buttons (TV mode only)

⬚ (Teletext On/Mix/Off)
Activates the teletext service and overlaps the teletext with the broadcasting screen.

⬚ (Index)
Displays the teletext index page.

⬚ (Cancel)
Displays the TV programme when searching for the new teletext page.

⬚ (Reveal)
Shows the hidden information.
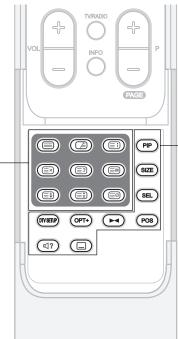
⬚ (Mode)
Selects the teletext mode (LIST/FLOF)

⬚ (Size)
Displays the double-size letters.
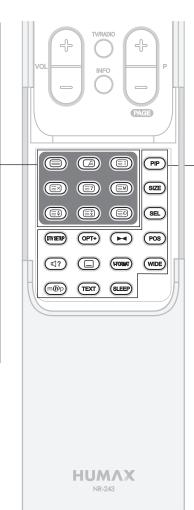
⬚ (Hold)
Holds the current teletext page not updating it.

⬚ (Subpage)
Displays the available sub-page.

PIP (32", TV Mode only)
Turns on and off the PIP mode.

SIZE (32", TV Mode only)
Changes the size of the sub screen. (Small or Large)

SEL (32", TV Mode only)
Selects the main or sub screen.

POS (32", TV Mode only)
Changes the portion of the sub screen.

DTV SETUP (TV mode only)
Displays the menu for Digital TV setup.

OPT + (except DTT-3500)
Displays the channel options while watching a programme in Digital TV input.

▶◀ (FREEZE) (TV Mode only)
Freezes the TV screen you are watching in Digital TV input. Play the audio continuously.

◁? (SOUNDTRACK)
Selects the sound mode (Stereo, Mono, etc.) in ATV mode and the audio language in DTV or STB mode.

▭ (Subtitle)
Displays the subtitle language list on the screen.

V-FORMAT (HDCI-2000 only)
Change the resolution of video.

WIDE
Sets the display format.

m⬚p (MHP Application) (DTT-3500, DTT-4500 only)
Displays MHP application information. (Number of MHP application and MHP application status.)

TEXT (DTT-3500, DTT-4500, HDCI-2000 only)
Shows MHEG (digital teletext information)

SLEEP (TV mode only)
Selects a preset time interval for switching the TV to standby mode automatically.

HUMAX
NR-243

▌ Programming the HUMAX Universal Remote Control (NR-243)
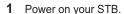
The HUMAX Universal Remote Control (NR-243) is designed to control the following HUMAX STB(set-top box) models: DTT-3500, DTT-4500 and HDCI-2000. To control these HUMAX set-top boxes, you will need to program the remote control by performing the following steps.

1 Power on your STB.
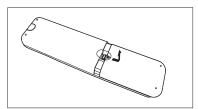
2 Press the **STB** button once to switch your remote control into STB operating mode.

3 Press again and hold the **STB** button for 3 seconds.

4 While holding the **STB** button down, enter the 3-digit code for your STB.

5 Release the **STB** button.

6 Aim the remote control at your STB and press the **STANDBY** button. The STB should turn on.

Note: If it does not, confirm the correct code for your STB model and repeat steps 2 through 6.

* HUMAX STB's Codes:
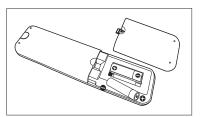
DTT-3500	001
DTT-4500	002
HDCI-2000	003
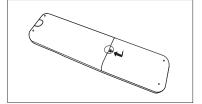
▌ Inserting Batteries into the Remote Control

You must insert or replace the batteries in the remote control when:

+ You just purchased TV
+ Remote control does not work

1 Remove the cover on the rear of the remote control by pressing the symbol (▼) downwards and then pulling firmly to remove it.

2 Insert two AAA size 1.5V batteries ensuring that the plus(+) and minus(-) signs of the batteries are correctly aligned.

3 Close the cover.

Note: Do not mix different battery types such as alkaline with manganese.

Installing on the Wall

You can install the TV on the wall using a mounting bracket (sold separately).

TIP: This Television is compliant with the VESA wall mounting standard. A variety of Mounts are available through your local retailer. Each may have its unique installation instructions.

screw

screw

Here the shown illustration are for explanation purpose and may be somewhat different depending on the type of mounts.
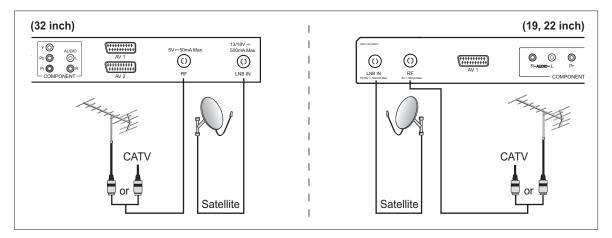
1 Before you install, separate the TV and stand-base by removing the screws.

2 Attach your main body bracket on the TV and fix using screws firmly.

3 Stick the TV with main body bracket into the wall bracket attached on the wall.

4 Tighten up a safety-screw.

Notes:
1. Please ask the installers to install the wall mount bracket.
2. Do not install the set on a weak surface such as plaster or foam board.
3. Please tightly secure the wall mount bracket to the wall to avoid injury from a falling TV.

Connecting to the Antenna

To view the television channels correctly, a signal must be received by the broadcasting provider.

1 Connect the RF coaxial cable from an aerial or a cable TV to the **RF** jack on the rear of the TV.

2 Connect the satellite antenna cable to the **LNB IN** jack on the rear of the TV.

Notes:
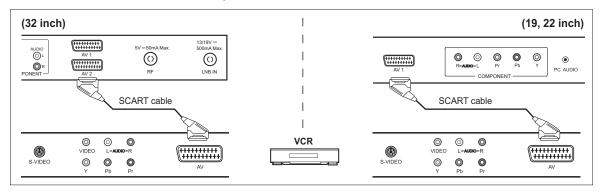
1. For proper reception of signals, an external antenna is required. For best reception, an outdoor antenna is recommended.

2. To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.

Connecting to the VCR

▍ Using the SCART Cable

Connect the SCART cable between the **SCART** jack on TV and the SCART jack on your VCR.

▪ *If you want to make a copy from a secondary VCR (or DVD player) --(32inch only)*

1 Connect your secondary VCR (or DVD player) to the **SCART (AV1)** jack and the target VCR (or DVD player) to the **SCART (AV2)** jack so that the signal transfers from **AV1** to **AV2**.

2 To record a programme, connect the receiver to the **SCART (AV1)** jack and the VCR (or DVD player) to the **SCART (AV2)** jack so that the signal transfers from **AV1** to **AV2**.

Note: For more details about how to record, refer to your required Equipment's instructions.

Main Input		AV1 (SCART1) Output	AV2 (SCART2) Output
Digital TV		Digital TV	Digital TV
Analog TV		Analog TV	Analog TV
AV1	CVBS		AV1 (CVBS)
(SCART)	RGB		AV1 (CVBS)
AV2	CVBS		AV2 (CVBS)
(SCART)	RGB		AV2 (CVBS)
Component		Previous RF (Digital TV/Analog TV)	A/V MUTE
AV3 (CVBS Side)			AV3 (CVBS Side)
S-VIDEO (Side)			S-VIDEO (Side/Y+C)
HDMI1			A/V MUTE
HDMI2			A/V MUTE
PC			A/V MUTE

Note: When changing the main input from Analog TV to HDMI1 or HDMI2, AV1 outputs nothing (A/V are muted).
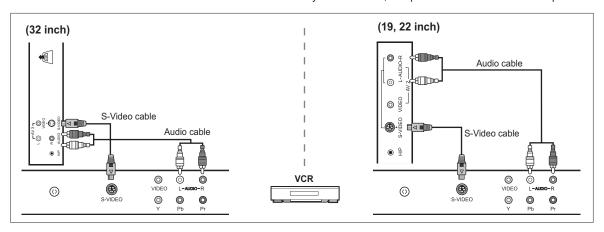
▌ Using the Audio/Video (Composite) Cable

(32 inch)

Video cable

Audio cable

(19, 22 inch)

Audio cable

Video cable

VCR

1 Connect the video cable between the **Video** input jack on the side of the TV and the video output jack on your VCR.

2 Connect the audio cable between the **Audio-L/R** input jacks on the side of the TV and the audio output jacks on your VCR.

▌ Using the Audio/S-Video Cable

S-Video carries the video data as two separate signals (brightness and colour), unlike composite video which carries the entire set of signals in one package. S-Video does not carry audio. Hence, a separate audio connection is required.

(32 inch)

S-Video cable

Audio cable

(19, 22 inch)

Audio cable

S-Video cable

VCR
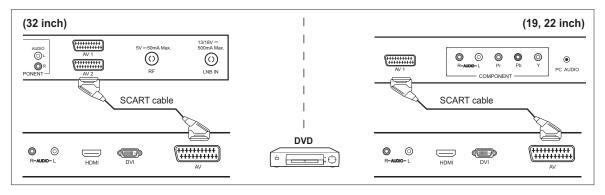
1 Connect the S-Video cable between the **S-Video** input jack on the side of the TV and the S-Video output jack on your VCR.

2 Connect the audio cable between the **Audio-L/R** input jacks on the side of the TV and the audio output jacks on your VCR.
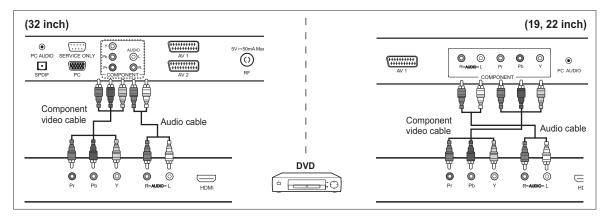
Connecting to the DVD Player

Using the SCART Cable

Connect the SCART cable between the **SCART** jack on TV and the SCART jack on your DVD player.

Using the Audio/Component Video Cable
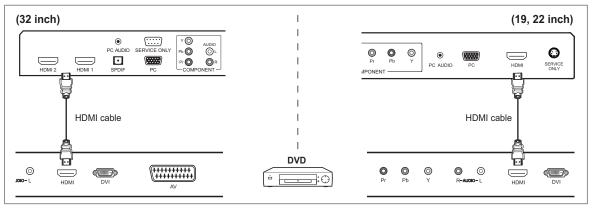
1 Connect the component video cables between the **Y/Pb/Pr (COMPONENT)** input jacks on TV and the component video output jacks on your DVD player.

2 Connect the audio cable between the **Audio-L/R (COMPONENT)** input jacks on TV and the audio output jacks on your DVD player.

Note: Depending on the manufacturer, the Y/Pb/Pr jacks may be identified as Y/P_B/P_R, Y/B-Y/R-Y or Y/C_B/C_R.

▌ **Using the HDMI Cable**

High-Definition Multimedia Interface (HDMI) is the leading new standard for Digital video and audio interconnection.
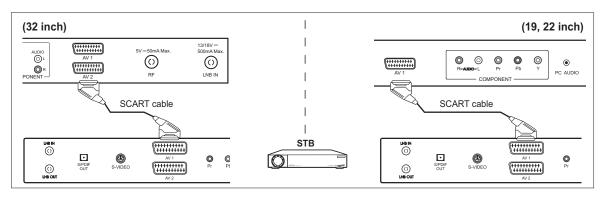
Connect the HDMI cable between the **HDMI** input jack on TV and the HDMI output jack on your DVD player.
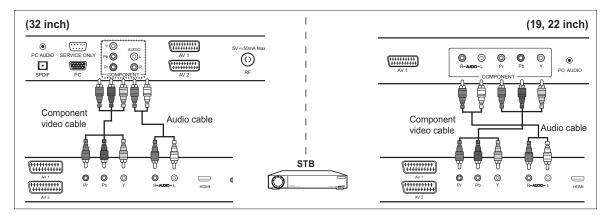
Connecting to the Set-Top Box

Using the SCART cable

Connect the SCART cable between the **SCART** jack on TV and the SCART jack on your STB.

Using the Audio/Component Video Cable
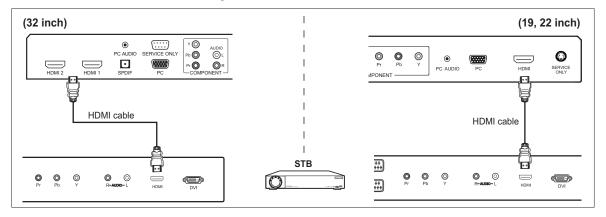
1 Connect the component video cables between the **Y/Pb/Pr (COMPONENT)** input jacks on TV and the component video output jacks on your STB.

2 Connect the audio cable between the **Audio-L/R** (**COMPONENT**) input jacks on TV and the audio output jacks on your STB.

Note: Depending on the manufacturer, the Y/Pb/Pr jacks may be identified as $Y/P_B/P_R$, Y/B-Y/R-Y or $Y/C_B/C_R$.

▌ Using the HDMI Cable

High-Definition Multimedia Interface (HDMI) is the leading new standard for Digital video and audio interconnection.

(32 inch)   **(19, 22 inch)**

HDMI cable

HDMI cable

STB
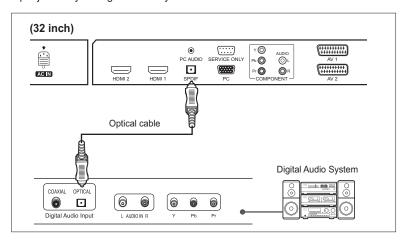
Connect the HDMI cable between the **HDMI** input jack on TV and the HDMI output jack on your STB.

Connecting to the Digital Audio System
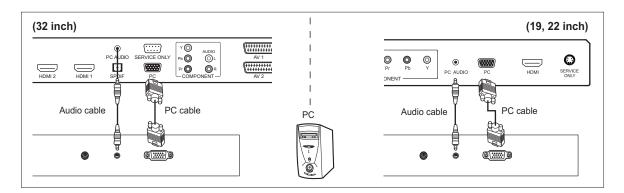
(32 inch, Digital TV input mode only)

Connect the optical cable between the **SPDIF** output jack on TV and the optical input jack on your digital audio system.

(32 inch)

Optical cable

Digital Audio System

Note: In order to enjoy the sound from the Digital Audio System, press the **VOL+/-** button or **MUTE** button to minimise the volume or to cut off the sound from the TV.

Connecting to the PC

(32 inch)   **(19, 22 inch)**

Audio cable   PC cable   PC   Audio cable   PC cable
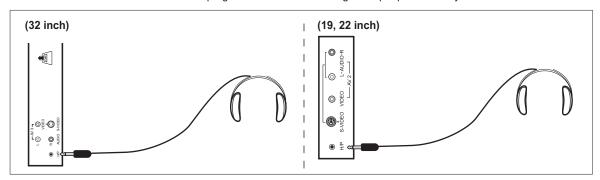
1   Connect the PC cable between the **PC** jack on TV and the PC output jack on your PC.

2   Connect the audio cable between the **PC Audio** jack on TV and the audio output jack on your PC.

Supported Display Resolution (PC)

No	Resolution PC (Analog)	H-freq (kHz)	V-freq (Hz)
1	640 x 480	31.5	60
2	800 x 600	37.9	60
3	1024 x 768	48.4	60
4	1280 x 768	47.8	60
5	1360 x 768	47.7	60

Connecting Headphones

Connect a set of headphones to **H/P** jack on TV if you want to watch a television programme without disturbing other people close to you.

(32 inch)   **(19, 22 inch)**

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

Conditonal Access System
(for the digital channels only)
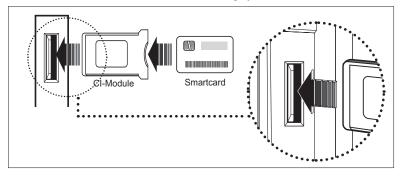
Conditional Access System (CAS) is a technology used to control access to digital television (DTV) services to authorised users by encrypting the transmitted programming.

▍ Inserting a CI Module (with Smartcard)

CI Module looks like a PC Card (called PCMCIA) for laptops. There are different kinds of CI Modules, suitable for different coding systems.

CI-Module   Smartcard
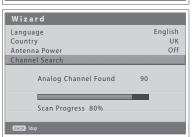
1 Follow the instructions of the module and insert the Smartcard into the Common Interface (CI) module.

2 Keep the CI module(with the Smartcard) vertically.

3 Insert the CI module completely into the CI slot on the side of the TV.

Note: Ensure the Smartcard or CI module is inserted in the right direction. Inserting in the wrong direction may cause damage to the Smartcard or CI module.

Wizard for Analog Channels

```
Wizard
Language                        English
Country                              UK
Antenna Power                       Off
Channel Search




 Move              OK Select
```

```
Wizard
Language                        English
Country                              UK
Antenna Power                       Off
Channel Search

       Analog Channel Found        90

       Scan Progress  80%

BACK Stop
```

When you turn on your TV for the first time after purchase or perform the default setting **in MENU-System**, the installation wizard for analog channels will appear automatically. You can easily setup the available analog channels using the wizard.

1 Select the language of your choice using the ◄/► button. The On Screen Display (OSD) menu will be shown in the selected language.

2 Select **Country** using the ▲/▼ button.

3 Select the country where you are now located using the ◄/► button.

4 Select **Channel Search** using the ▲/▼ button and press the **OK** button. It starts to scan channels. The scanned channels are automatically saved in order. To stop scanning channels, press the **BACK** button.

5 After the channel scanning completes, the **Edit Channels** menu is displayed automatically. The first scanned channel, if only, will be automatically displayed.

Notes:
1. If you do not want to setup the channels at this time, you can setup it later using the **Channel** menu.
2. If you connect an active antenna to the TV, you have to set the **Antenna Power** to **On** to supply the 5V power into antenna. The default value is **Off**. Active antenna is a portable or indoor antenna which needs power supply from the product because it does not have power cord for itself.

Wizard for Digital Channels

```
Digital TV
Analog TV
AV1
AV2
AV3
S-Video
Component
PC
HDMI1
HDMI2
```

When you switch the main input into Digital TV for the first time after purchase or perform the Default Setting in **DTV SETUP-Installation**, the installation wizard for digital channels will appear automatically.

Note: This wizard is available in the **Digital TV** input mode only.

You can easily setup the available digital channels using the wizard. You can select items using the **NUMBER(0-9)** buttons.

Notes:
1. If you press the **BACK** button or select **Back** and press the **OK** button while running the installation wizard, you can return to the previous screen.
2. The options given of the installation wizard may vary according to area.
3. The default password is 0000. If you have forgotten your password, please contact your local TV distributor.
4. If you exit the install wizard without fully completing the channel searching procedure, you may not have all of the channels available. In this case, you can use the installation menu to search for more channels.

▌ **Language**

You can select the main language.
Select the appropriate language from the list using the ▲/▼ button and press the
OK or ▶ button to save the selected language as a default language.

▌ **Country**

You can select the country.
Select your country from the list using the ▲/▼ button and press the **OK** or ▶
button.

▌ **Terrestrial Channel Search**

You can search the terrestrial channels.

1   Select **Automatic Channel Numbering** using the ▲/▼ button and press the
OK or ▶ button to select **Enable/Disable**.
Select **Next** and press the **OK** button to search the terrestrial channels

2   During the channel search, the cursor is located at **Stop**.
Therefore, if you press the **OK** button during the search, the search will stop
and the channels found until then will be displayed.

3   If the search does not find any channels, then press the **OK** button to access
the installation menu to search for the channels again. Please make sure
that you have connected your aerial correctly.

4   You can delete unwanted channels from the found channels. Select the
channels to delete and press the **OK** button. Then select **Delete** and
press the **OK** button. To delete all channels, select **Select All** to select all
channels, select **Delete** and press the **OK** button.

5   After completing the channel search and deleting unwanted channels, select
Save and press the **OK** button to save the changes.

Number of Satellite

You can select the number of satellite.

1   Select the number of satellite using the ▲/▼ button and press the **OK** or ▶
button.
Select **Skip** using ▲/▼ button and press the **OK** or ▶ button to skip to the
next.

Antenna Setting

You can set the antenna and LNB information for channel search.

1   Select **Satellite** using the ▲/▼ button and press the **OK** or ▶ button to select
an option.

2   Select **LNB Frequency** using the ▲/▼ button and press the **OK** or ▶ button
to select an option. If the required value does not exist, select **User Define**
and enter the LNB frequency directly using the **NUMBER(0-9)** buttons.

Note: If you select **Universal**, the **22kHz Tone** value is set to **Disabled**.

3   Select **22kHz Tone/DiSEqC Input** using the ▲/▼ button and press the **OK**
or ▶ button to select an option.

Search Type

You can select the search type.

Select **Scrambled Type/Channel Type** using the ▲/▼ button and press the **OK**
or ▶ button to select an option.

Satellite Channel Search

You can search the satellite channels.

Please wait until the channel search is complete.
Satellite channel search is similar to that of the terrestrial channel search.
Please refer to *Terrestrial Channel Search*.

▌ Time Setting

You can set the GMT offset for current time and the daylight saving time.

1 Select **GMT Offset** using the ▲/▼ button and press the **OK** or ▶ button.
Select your GMT offset using the ▲/▼ button and press the **OK** or ▶ button.

Note: The current time is set automatically whenever GMT offset changes.
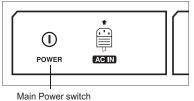
2 Select **Daylight Saving Time** using the ▲/▼ button and press the **OK** or ▶
button to select **Enable/Disable**.

▌ Result

After all setting is complete, you can view the result screen. Select **Finish** and
press the **OK** button to complete the installation wizard.

Turning on Your TV

POWER   AC IN

Main Power switch
on Rear Panel

TV/AV/OK   MENU   VOL—   VOL+   P∨   P∧   ⏻

STANDBY button
on Top Panel

SNOOZE

STANDBY   ⏻

TV/AV   MUTE   SLEEP

To turn on your TV, do as follows:

1 Connect the power cord on TV to the wall outlet.

2 Press the **MAIN POWER** switch on the rear of your TV. The standby indicator lights up.

3 Press the **STANDBY** button on your remote control (or on the top of your TV) to turn on the TV.
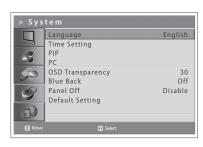
Note: To set your TV in standby mode, press the **STANDBY** button again on the remote control or (⏻) on the top of your TV. It saves the electric usage when you want to stop watching TV temporarily (during a meal, for example).

4 To turn off the TV, press the **MAIN POWER** switch on the rear of your TV.

Note: Do not leave your TV in standby mode for too long (on holiday, for example). Turn off the TV by pressing the **MAIN POWER** switch on the rear of your TV. It is recommended for you to turn off the power by disconnecting the power cord.

Note: 19 inch and 22 inch models do not have the **MAIN POWER** switch.

Selecting the Menu Language

> System

Language   English
Time Setting
PIP
PC
OSD Transparency   30
Blue Back   Off
Panel Off   Disable
Default Setting

Move   Select

You can select the language for displaying menus and indications.

1 Press the **MENU** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select the language of your choice using the ◄/▶ button.
The On Screen Display (OSD) menu will be shown in the selected language.

4 Press **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Selecting the Main Input Source
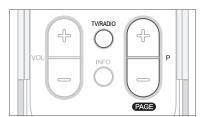
(32 inch)

```
Digital TV
Analog TV
AV1
AV2
AV3
S-Video
Component
PC
HDMI1
HDMI2
```

(19, 22 inch)

```
Digital TV
Analog TV
AV1
AV2
S-Video
Component
PC
HDMI
```

Once you have connected your various audio and video systems, you can view different sources by selecting input sources.

1 Press the **TV/AV** button.

2 Select the main input among the sources using the ▲ or ▼ button.

3 Press the **OK** button.

4 In addition, press the **TV/RADIO** button to switch to digital TV from different sources.

| TV/AV | MUTE | SLEEP |
| PIC MODE | SND EFFECT | WIDE |

Switching Channel
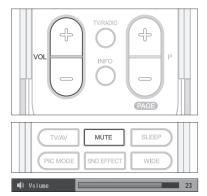
You can switch the current channel using one of the following methods.

1 Press the **P+/-** button.

2 Enter the channel number using the **NUMBER(0-9)** buttons to move to the channel directly.

3 Press the **TV/RADIO** button to switch between digital TV channels and radio channels.

Note: You can switch channels using the channel list or EPG.

Volume Control

You can adjust the volume.

1 Press the **VOL+/-** button to adjust the audio volume.

2 Press the **MUTE** button to stop the audio temporarily.

Note: The mute function remains set while you switch channels.

| TV/AV | MUTE | SLEEP |
| PIC MODE | SND EFFECT | WIDE |

🔊 Volume   23

Viewing Analog Channel List

Channels	
P95 -----	
P96 -----	✓
P97 -----	✓
P98 -----	✓ Ⓕ
P99 C 14	✓
P01 -----	
P02 -----	Ⓕ
P03 -----	
P04 -----	
P05 -----	

FAV   0   LIST
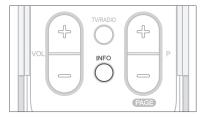
You can view the list of all analog channels using the **LIST** button and switch to other channels on the channel list.

1 Press the **LIST** button while watching the analog channels.

2 To change the channel in analog channel list, select your desired channel using the ▲/▼ button and press **OK** button. The selected channel is displayed.

Displaying Information

TV/RADIO

VOL   INFO   P

PAGE

You can display the channel information on the screen.

Press the **INFO** button.
Information menu appears.

P 11 -----
Mono

▲ Analog TV Input

4805   CNN International   ⊕ 12:45
🔉 Hello, Onkel Doc!   🈺 🈳 🈲 📶 🈁
                          🎵 Favourite 1   12:00   13:00 ▶

▲ Digital TV Input

AV1

▲ External Input
(AV1/2/3, S-Video)

Component
720 x 480p
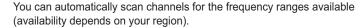
▲ External Input
(Component, PC, HDMI1/2)

Press the **INFO** button again to view the current time at the top right hand corner of the screen. (except Digital TV input)
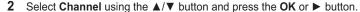
Note: Whenever you switch channels, this information is displayed for 5 seconds.

Scanning Analog Channels Automatically

> Channel

	Country	UK
	Antenna Power	Off
	Auto Search	
	Manual Search	
	Edit Channels	

Move   OK ▶ Enter

>> Auto Search

Search

Analog Channel Found   30

Scan Progress   80%

BACK Stop

You can automatically scan channels for the frequency ranges available (availability depends on your region).

*Analog channels can be scanned only in **Analog TV** input mode. Please make sure the main Input is set to **Analog TV** using the **TV/AV** button.*

1   Press the **MENU** button.

2   Select **Channel** using the ▲/▼ button and press the **OK** or ► button.

3   Select **Country** using the ▲/▼ button.

4   Select the country where you are now located using the ◄/► button.

5   Select **Auto Search** using the ▲/▼ button and press the **OK** or ► button. **Search** is highlighted.

6   Press the **OK** button to start to scan channels.It starts to scan channels. The scanned channels are automatically saved in order. To stop scanning channels, press the **BACK** button.

7   After the channel scanning completes, the **Edit Channels** menu is displayed automatically. The first scanned channel, if only, will be automatically displayed.

Note: If you connect an active antenna to the TV, you have to set the **Antenna Power** to **On** to supply the 5V power into antenna. The default value is **Off**. Active antenna is a portable or indoor antenna which needs power supply from the product because it does not have power cord for itself.

Scanning Analog Channels Manually

```
> Channel
        Country                    UK
        Antenna Power             Off
        Auto Search
        Manual Search
        Edit Channels



  Move              OK  Enter
```

```
>> Manual Search
        Colour System           Auto
        Audio System              BG
        Band                  VHF/UHF
        Channel                    12
        Programme No               99
        Name                      C14
        Search                     ◆
        Fine Tune                   0
        Save

  Move              Select
```

You can save each channel as you identify.

*Analog channels can be scanned only in **Analog TV** input mode. Please make sure the main Input is set to **Analog TV** using **TV/AV** button.*

1 Press the **MENU** button.

2 Select **Channel** using the ▲/▼ button and press the **OK** or ► button.

3 Select **Manual Search** using the ▲/▼ button and press the **OK** or ► button. **Colour System** is highlighted.

4 Select the required broadcasting standard (**Auto**, **PAL**, or **SECAM**) using the ◄/► button.

5 Select **Audio System** using the ▲/▼ button.

6 Select the required audio system (**BG**, **I**, **DK** or **L**) using the ◄/► button.

7 Select **Band** using the ▲/▼ button.

8 Select the required signal source (**VHF/UHF** or **Cable**) using the ◄/► button.

9 Select **Channel** using the ▲/▼ button and choose the channel number pressing the ◄/► or **NUMBER(0~9)** button.

10 Select **Programme No** using the ▲/▼ button and select the programme number you would like to assign by pressing the ◄/► or **NUMBER(0~9)** button. To change channel names, select **Name** using the ▲/▼ button.

11 Enter the new channel name using the ▲/▼/◄/► buttons and press the **OK** button.

12 Select **Search** using the ▲/▼ button and press the ◄/► button to start searching channels.

13 Select **Fine Tune** using the ▲/▼ button and press the ◄/► button to obtain a good quality of the picture and sound until you reach the optimal setting.

14 Select **Save** and press the **OK** button to save.

Channel mode display
   - **C (Air channel mode)**: You can select channels by entering the assigned number for broadcasting stations on air in this mode.
   - **S (Cable channel mode)**: You can select a channel by entering the assigned number for cable channels in this mode.

Editing Analog Channels

After channel scanning completes, you can delete, skip, move or add into favorite channel group the saved analog channels.

> Channel

	Country	UK
	Antenna Power	Off
	Auto Search	
	Manual Search	
	Edit Channels	

Move   OK ▶ Enter

*Analog channels are editable only in **Analog TV** input mode. Please make sure the main Input is set to **Analog TV** using **TV/AV** button.*

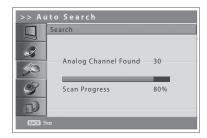**1**   Press the **MENU** button.

2   Select **Channel** using the ▲/▼ button and press the **OK** or ▶ button.

3   Select **Edit Channels** using the ▲/▼ button and press the **OK** or ▶ button. The **Edit Channels** menu will appear.

>> Edit Channels

P 95 -----	✔
P 96 -----	✔
P 97 -----	✔
P 98 -----	✔
P 99 -----	✔
P 01 -----	✔ ⇕
P 02 -----	Ⓕ
P 03 -----	✔
P 04 -----	Ⓕ

Delete   Skip   Fav   Move
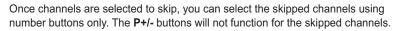
Deleting Channels

You can delete channels from the list.

1   Select a channel you want to delete using the ▲/▼ button and press the **RED** button. The selected channel is deleted.

Skipping Channels

Once channels are selected to skip, you can select the skipped channels using number buttons only. The **P+/-** buttons will not function for the skipped channels.

1   Select a channel to skip using the ▲/▼ button and press the **GREEN** button. (✔) mark appears next to the channel name. To clear the skipped channels, select the channel you don't want to skip and press the **GREEN** button.

Adding Favourite Channels

You can add favourite channels into the favourite channel group.

1   Select a channel to add into the favourite channel group using the ▲/▼ button and press the **YELLOW** button. (Ⓕ) mark appears next to the channel name. To delete the favourite channels from the group, select a favourite channel you want to delete and press the **YELLOW** button.

   If you press the **FAV** button, each favourite channel can be selected in sequent order.

Moving Channels
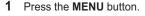
You can change the location of channels.

1   Select a channel to move the location using the ▲/▼ button and press the **BLUE** button. (⦿) mark appears next to the channel name.

2   Move the selection to a new location using the ▲/▼ button and press the **BLUE** button. The selected channel is moved to its new location and all other channels are shifted accordingly.

Selecting a Picture Mode

You can select the picture mode which best fits your viewing requirements.

```
> Picture
   Mode                        Bright
   Brightness      ▭▭▭▭▭▭        60
   Contrast        ▭▭▭▭▭▭▭       75
   Sharpness       ▭▭▭▭▭         50
   Colour          ▭▭▭▭▭▭        60
   Hue             ───┼───        0
   Fleshtone                    Off
   Colour Temp.                 Cool
   NR                           Off
   Backlight                    High
   🔒 Move          🆗 Select
```

```
┌─────────────────────────────┐
│  ( TV/AV )  ( MUTE )  ( SLEEP )  │
│  (PIC MODE) (SND EFFECT) ( WIDE ) │
└─────────────────────────────┘
```

1 Press the **MENU** button.

2 Select **Picture** using the ▲/▼ button and press the **OK** or ► button.

3 Select the required picture mode using the ◄/► button.
The following options are available:
Bright > Soft > Manual > Standard

Note: You can select a picture mode by simply pressing the **PIC MODE** button on the remote control. Press again to switch.

4 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Customizing the Picture Settings

You can adjust the picture appearance to suit your preference and viewing situations.
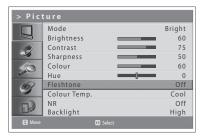
```
> Picture
   Mode                       Manual
   Brightness      ▭▭▭▭▭▭        60
   Contrast        ▭▭▭▭▭▭▭       75
   Sharpness       ▭▭▭▭▭         50
   Colour          ▭▭▭▭▭▭        60
   Hue             ───┼───        0
   Fleshtone                    Off
   Colour Temp.                 Cool
   NR                           Off
   Backlight                    High
   🔒 Move       🆗 Adjust    ○ Reset
```

```
Brightness    ▭▭▭▭▭▭▭▭▭▭▭▭▭      80%
```

1 Press the **MENU** button.

2 Select **Picture** using the ▲/▼ button and press the **OK** or ► button.

3 Select the picture mode to **Manual** using the ◄/► buttons.

4 Select the required option using the ▲/▼ button and press the ◄/► button.
The following options are available:
Brightness > **Contrast** > **Sharpness** > **Colour**

5 Press the ◄/► button until you reach the optimal setting. Press the **BLUE** button to reset to the default value.
To select other options, repeat the steps from 4 to 5.

6 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Note: You can adjust the Hue when watching the NTSC signal in AV1, AV2, AV3 or S-Video input mode.

Fleshtone
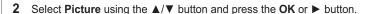
Use Fleshtone function to improve the picture quality by adjusting colour balance.

> Picture

	Mode	Bright
	Brightness	60
	Contrast	75
	Sharpness	50
	Colour	60
	Hue	0
	Fleshtone	Off
	Colour Temp.	Cool
	NR	Off
	Backlight	High

Move   Select

1 Press the **MENU** button.

2 Select **Picture** using the ▲/▼ button and press the **OK** or ► button.

3 Select **Fleshtone** using the ▲/▼ button.

4 Select the required fleshtone using the ◄/► button.
The following options are available.
Off > Low > Medium > High

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Colour Temperature

You can change the colour of the entire screen to fit your needs.
Set to **Warm** for intensifing hot colours such as red, or set to **Cool** for displaying less intense colours with more blue.

> Picture

	Mode	Bright
	Brightness	60
	Contrast	75
	Sharpness	50
	Colour	60
	Hue	0
	Fleshtone	Off
	Colour Temp.	Cool
	NR	Off
	Backlight	High

Move   Select

1 Press the **MENU** button.

2 Select **Picture** using the ▲/▼ button and press the **OK** or ► button.

3 Select **Colour Temp.** using the ▲/▼ button.

4 Select the required colour temperature using the ◄/► button.
The following options are available:
Cool > Normal > Warm
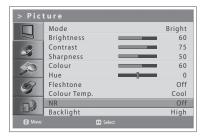
5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Noise Reduction (32 inch only)

If the signal received by your television is weak, you can activate this feature to help reduce noise that may appear on the screen.

> Picture	
Mode	Bright
Brightness	60
Contrast	75
Sharpness	50
Colour	60
Hue	0
Fleshtone	Off
Colour Temp.	Cool
NR	Off
Backlight	High

Move   Select

1 Press the **MENU** button.

2 Select **Picture** using the ▲/▼ button and press the **OK** or ► button.

3 Select **NR** using the ▲/▼ button.

4 Select the required option by pressing the ◄/► button.
The following options are available.

Off > **Low > Medium** > **High**

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Adjusting Backlight Brightness
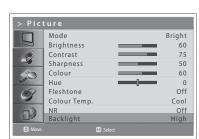
You can adjust the brightness of Liquid Crystal Display (LCD).

> Picture	
Mode	Bright
Brightness	60
Contrast	75
Sharpness	50
Colour	60
Hue	0
Fleshtone	Off
Colour Temp.	Cool
NR	Off
Backlight	High

Move   Select

1 Press the **MENU** button.

2 Select **Picture** using the ▲/▼ button and press the **OK** or ► button.

3 Select **Backlight** using the ▲/▼ button.

4 Select the required option using the ◄/► button.
The following options are available:

High > Auto > Low > Medium

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Setting the Sound Effect
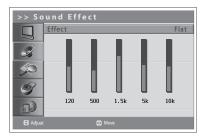
You can select the type of special sound effect when watching a broadcast.

Sound Effect lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the programme content.

> Sound

Effect	Flat
Balance	0
AVL	Off
SRS TruSurround XT	Off

Move   OK ▶ Enter

>> Sound Effect

Effect	Flat

120   500   1.5k   5k   10k

Adjuat   Move

TV/AV	MUTE	SLEEP
PIC MODE	SND EFFECT	WIDE

1 Press the **MENU** button.

2 Select **Sound** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Effect** using the ▲/▼ button and press the **OK** button.

4 Select the required sound effect using the ▲/▼ button.
The following options are available:
  - **User**
    Customise your own sound effect.
  - **Flat**
    Flat and pure sound.
  - **Speech**
    Emphasises clear dialogue.
  - **Movie**
    Emphasises bass tones.
  - **Music**
    Enhances music quility.

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Note: You can select sound effect by simply pressing the **SND EFFECT** button on the remote control. Press again to switch.

Adjusting the Sound Balance

You can adjust the output of the right and left speakers to obtain the best stereo reproduction for your listening position.

> Sound

Effect	Flat
Balance	0
AVL	Off
SRS TruSurround XT	Off

Move   Adjust

1 Press the **MENU** button.

2 Select **Sound** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Balance** using the ▲/▼ button.

4 Press the ◀/▶ button to make changes.

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.
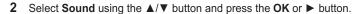
Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, volume may not be adjusted each time you switch channels. This feature lets you automatically adjust the volume of the selected channel by adjusting the sound output depending on the signal modulation.

> Sound	
Effect	Flat
Balance	0
AVL	Off
SRS TruSurround XT	Off

Move   Select

1 Press the **MENU** button.

2 Select **Sound** using the ▲/▼ button and press the **OK** or ► button.

3 Select **AVL(Auto Volume Level)** using the ▲/▼ button.

4 Select **On/Off** using the ◄/► button.

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1multi-channel content over two speakers. TruSurround delivers a compelling, virtual surround sound effect through two-speaker playback system, including built-in television speakers. It is fully compatible with all multi-channel audio formats.

> Sound	
Effect	Flat
Balance	0
AVL	Off
SRS TruSurround XT	Off

Move   Select

1 Press the **MENU** button.

2 Select **Sound** using the ▲/▼ button and press the **OK** or ► button.

3 Select **SRS TruSurround XT** using the ▲/▼ button.

4 Select **On/Off** using the ◄/► button.

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.
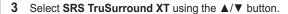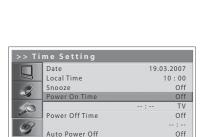
Note: ($\underset{\text{TruSurround XT}}{\text{SRS}\,\bullet}$) is a trademark of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.

Setting the Time Information

> **System**

🖥	Language	English
	Time Setting	
🎚	PIP	
	PC	
🔍	OSD Transparency	Disable
	Blue Back	Off
🎛	Panel Off	Disable
	Default Setting	
🗔		
⊟ Move	OK ▶ Enter	

>> **Time Setting**

🖥	Date	19.03.2007
	Local Time	10 : 00
🎚	Snooze	Off
	Power On Time	Off
🔍		-- : -- TV
	Power Off Time	Off
🎛		-- : --
	Auto Power Off	Off
🗔		
⊟ Move	0-9 Select	

You can set the current time. If you want to set time for automatically turning on/off the power, you must set the local time first.

▌ Setting the Current Time

1 Press the **MENU** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ► button.

3 Select **Time Setting** using the ▲/▼ button and press the **OK** or ► button.

4 Select **Date** using the ▲/▼ button and enter day/month/year using the **NUMBER(0~9)** buttons.

5 Select **Local Time** using the ▲/▼ button and enter hour/minute using the **NUMBER(0~9)** buttons.

>> **Time Setting**

🖥	Date	19.03.2007
	Local Time	10 : 00
🎚	Snooze	Off
	Power On Time	Off
🔍		-- : -- TV
	Power Off Time	Off
🎛		-- : --
	Auto Power Off	Off
🗔		
⊟ Move	◀▶ Select	

▌ Using the TV Timer Function

You can schedule time for automatically turning on/off the power so that your TV will automatically be turned on and off at specific time you have scheduled.

6 To set time for turning on the power, select **Power On Time** using the ▲/▼ button and press the ◀/► button to select **On**.

7 **Power On Time** is enabled, enter hour/minute using the **NUMBER(0~9)** buttons. And select your desired service between **TV** or **Radio** using the ◀/► button. At the preset time, the TV will automatically be turned on and display the preset service.

8 To switch into the standby mode momentarily when the TV is turned on automatically at the preset time, select **Snooze** using the ▲/▼ button and press the ◀/► button to select **On**. Then, within 10 minutes hour after the TV is turned on automatically at the preset time, if you press the **STANDBY** button, the TV is switched to the standby mode and will be worked again after 5 minutes.

9 To set time for turning off the power, select **Power Off Time** using the ▲/▼ button and press the ◀/► button to select **On**.

10 **Power Off Time** is enabled, enter hour/minute using the **NUMBER(0~9)** buttons.

>> **Time Setting**

🖥	Date	19.03.2007
	Local Time	10 : 00
🎚	Snooze	Off
	Power On Time	Off
🔍		-- : -- TV
	Power Off Time	Off
🎛		-- : --
	Auto Power Off	Off
🗔		
⊟ Move	◀▶ Select	

▌ Setting the Auto Power Off

In case there is no signal, it is possible have your TV automatically turned off to reduce power consumption.

11 Select **Auto Power Off** using the ▲/▼ button and press the ◀/► button to select **On**. The TV will automatically be turned off if there is no signal.
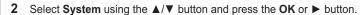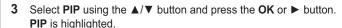
Picture-in-Picture (PIP) Settings (32 inch only)

The PIP function allows you to watch two pictures with main and sub screens at the same time using your TV or other external devices.

This function is available in the PC input mode only.

1 Press the **MENU** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ► button.

3 Select **PIP** using the ▲/▼ button and press the **OK** or ► button.
PIP is highlighted.

4 Select **On/Off** using the ◄/► button.

Notes:
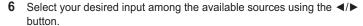**1.** You can turn on/off the PIP modes by simply pressing the **PIP** button on the remote control.
2. You can not change the aspect ratio when PIP mode.

If you set PIP to Off, the followings are not available:

5 Select **Sub Input** using the ▲/▼ button.

6 Select your desired input among the available sources using the ◄/► button.

Main Picture Source	Available Sub Picture Source
PC	Digital TV,Analog TV, AV1, AV2, AV3, S-Video

7 Select **Size** using the ▲/▼ button.

8 Select **Small** or **Large** using the ◄/► button.

Note: You can select the size of the sub-screen by simply pressing the **SIZE** button on the remote control.

9 Select **SEL** using the ▲/▼ button.

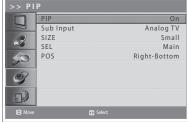**10** Select **Main** or **Sub** using the ◄/► button.

Note: You can select your desired screen by simply pressing the **SEL** button on the remote control.
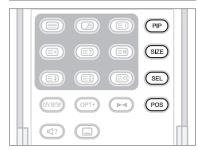
11 Select **POS** using the ▲/▼ button.

12 Select the required position by pressing the ◄/► button.
Right-Bottom > Left-Bottom > Left-Top > Right-Top

Note: You can select the position by simply pressing the **POS** button on the remote control.
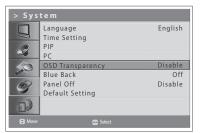
Adjusting OSD Transparency

You can set the transparency of On Screen Display.

```
> System
    Language              English
    Time Setting
    PIP
    PC
    OSD Transparency      Disable
    Blue Back             Off
    Panel Off             Disable
    Default Setting

 Move              Select
```

1 Press the **MENU** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **OSD Transparency** using the ▲/▼ button.

4 Select the required option using the ◄/► button.
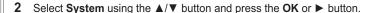The following options are available:
30 > 50 > 70 > 100 > Disable

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.
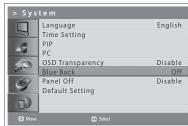
Adjusting Blue Back (32 inch only)

When watching a channel with no or poor reception, or if there is no input from an external device, you can change the screen into a blue.

```
> System
    Language              English
    Time Setting
    PIP
    PC
    OSD Transparency      Disable
    Blue Back             Off
    Panel Off             Disable
    Default Setting

 Move              Select
```

1 Press the **MENU** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Blue Back** using the ▲/▼ button.

4 Select **On/Off** using the ◄/► button.

5 Press the **EXIT** button to return to Live TV or press the **BACK** button to return to the previous menu.

Panel Off

You can set the LCD panel to go out automatically for reduction of power consumption when watching a radio channel.
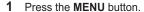
1 Press the **MENU** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Panel Off** using the ▲/▼ button.

4 Select **Enable** using the ◄/► button.
The LCD panel will automatically go out if there is no signal for 1 minute when watching a radio channel.

```
> System
  Language                    English
  Time Setting
  PIP
  PC
  OSD Transparency            Disable
  Blue Back                   Off
  Panel Off                   Disable
  Default Setting

  Move            OK  Enter
```

Default Settings

You can set your TV settings to the default setting values.

Warning: Please note that once you perform the Default Setting, all data such as, analog channel list, and user configured data are deleted.

To perform Default Setting:

1 Press the **MENU** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Default Setting** using the ▲/▼ button and press the **OK** or ▶ button.
The confirm message will be displayed.

4 Select **Yes** and press the **OK** button to change all settings value to the factory default.

5 Default setting is completed.

```
> System
  Language                    English
  Time Setting
  PIP
  PC
  OSD Transparency            Disable
  Blue Back                   Off
  Panel Off                   Disable
  Default Setting

  Move            OK  Enter
```

Notes :
1. After completing the default setting, the installation wizard for analog channels will appear automatically in a few seconds.
2. This **Default Setting** does not operate for the digital channels. For more information about Default Setting of the digital channels, refer to *Chapter 10. Setting the DTV Setup Menu > Installation > Default Setting*.

(32 inch)

Digital TV
Analog TV
AV1
AV2
AV3
S-Video
Component
PC
HDMI1
HDMI2

(19, 22 inch)

Digital TV
Analog TV
AV1
AV2
S-Video
Component
PC
HDMI

This chapter describes the various features for using the digital channels such as basic operation, digital channel list and EPG (Electronic Programme Guide).

Note: These features are available in the **Digital TV** input mode only.

Basic Operation

This section describes the basic functions for the digital channels such as subtitle, audio, option list and programme information. You can check or change the settings.

Subtitle

You can select the language for the subtitle if the programme provides subtitle information.

1 Press the **SUBTITLE** button to display the subtitle language list.

2 Select a subtitle language using the ▲/▼ button and press the **OK** button. The subtitle will be displayed in the selected language at the bottom of the screen.

3 Select **Off** from the subtitle language list to hide subtitle from the screen.

Note: You can select a default subtitle language in **DTV SETUP–Preferences–Language Setting–Subtitle Language**.

Audio

If the current programme is available in multiple audio languages, you can select the language that you wish to listen to.

1 Press the **SOUNDTRACK** button.

2 Select an audio language using the ▲/▼ button.

3 Select audio direction(left, right, stereo) using the ◄/► button.

4 Press the **EXIT** or **SOUNDTRACK** button to exit the audio list.

Notes:

1. You can select the default audio language you want in **DTV SETUP–Preferences–Language Setting–Audio Language**.

2. If the programme is broadcast in the compressed bitstream audio signal, you cannot set the audio direction.

▌ **Option List**

You can view and confirm detailed information about the current channel and change the information if necessary.

Note: The default password is 0000. If you have forgotten the password, please contact your local TV distributor.
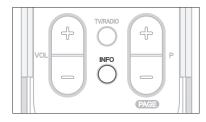
1   Press the **OPT+** button.

2   Select **Favourite** using the ▲/▼ button and press the **OK** or ▶ button. Select a favourite group using the ▲/▼ button and press the **OK** button to register for favourite group.

Note: For detailed information about how to change favourite group name and how to register favourite channels from the complete channel list, please refer to *Chapter 10. Setting the DTV Setup Menu > Edit Channels > Edit Favourite Channels*.

3   Select **Lock/Unlock** using the ▲/▼ button and press the **OK** or ▶ button. Select **Lock** or **Unlock** option using the ▲/▼ button and press the **OK** button.

Note: When switching to the locked channel, you must enter the password to view the channel.

4   Select **Delete** using the ▲/▼ button and press the **OK** or ▶ button. Select **Yes** in the confirmation message and press the **OK** button.

5   Select **Information** using the ▲/▼ button to display the channel information automatically.
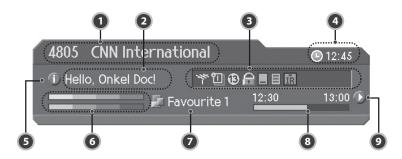
▌ Programme Information (i- plate)

Programme information is always displayed for a certain period of time whenever you switch channels. You can view the programme information by pressing the **INFO** button while watching a programme. Press the **EXIT** button to hide the i-plate.

General Information

The general information is displayed on the screen as the following.

1 Channel number and name

2 Programme name

3 Icons

📡 📶	Displayed only when the channel is a satellite or terrestrial channel.
📅	Displayed only if the programme is reserved.
⑬	Represents parental level. Indicates the minimum level of age for viewing the programme.
🔒	Displayed only when the channel is a locked channel.
⬜	Displayed only when subtitle information is available.
⬜	Displayed only when the channel is a scrambled channel.
▤	Displayed only when there is any teletext information.
📟	Displayed only when the compressed bitstream audio signal is broadcasted.

4 Current time

5 Detailed programme information

6 Signal strength and quality

7 Current channel list icon

8 Programme broadcasting time and progress bar

9 Next programme Information

Note: If there is no programme information available, programme information is not displayed.

Detailed Programme Information

You can see detailed information about the current programme. Press the **INFO** button when the i-plate is displayed to view detailed information.

Notes:

1. Press the **INFO** button again to hide the information box.
2. If the detail information is more than one page, use the ▲/▼ button to move to the previous/next page.

Digital Channel List

This section will help you display the digital channel list using the **LIST** button and switch to another digital channel in the digital channel list.

Six types of channel lists are provided for easy and quick channel browsing.

TV	The list of all Digital TV channels
Radio	The list of all Digital radio channels
Favourite	The list of Digital favourite channels in five subgroups according to your private taste
Terrestrial	The lists of Digital channels classified by terrestrial channels
Satellite	The lists of Digital channels classified by satellites
Scramble	The lists of Digital channels classified by CAS types

You can display the channel list and switch to another channel on the channel list.

1 Press the **LIST** button while watching a programme to display the channel list.

2 Select a channel using the ▲/▼ button and press the **OK** button to change the channel.

3 Enter the channel number directly using the **NUMBER(0-9)** buttons to move the cursor to the channel you want. And then press the **OK** button to change to the selected channel.

4 Press the ▶ button while the channel list is displayed to view the group list. Select a channel group using the ▲/▼ button and press the **OK** or ▶ button. Select a sub-group using the ▲/▼ button and press the **OK** button. The channel list for the selected subgroup is displayed.
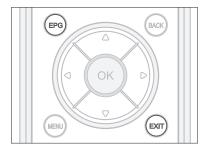
Notes:
1. You can also display the channel list by pressing the **OK** button.
2. Press the **P+/-(Page)** button to move to the previous/next page.
3. To display scramble icon in the channel list, select **On** in **DTV SETUP-Preferences-Miscellaneous Settings-Option in CH List**.

Programme Guide

The programme guide displays the detailed programme information about each digital channel, based on the date and time. You can also schedule your watching using the information given.

Note: Press the **EXIT** or **EPG** button to exit the guide screen.

Viewing the Electronic Programme Guide(EPG)

You can view programme information for all digital channels.

1 Press the **EPG** button.

2 Move to previous or next programme within the same channel using the ◄/► button.

3 Move to another channel using the ▲/▼ button. If there are multiple channels, use the **P+/-** button to move to channels by page. Also, you can enter the channel number using the **NUMBER(0-9)** buttons on the remote control to move to the channel directly.

4 Select a programme and press the **OK** button. Then you can watch the programme if it is on air.

5 Press the **INFO** button in the selected programme to view the detailed information (if available) of the selected programme.

▌ Viewing by Channel Group

You can view programme information of the selected channel list by groups.

1 Press the **RED** button to display the channel list group.

2 Select a channel list group using the ▲/▼ button.

3 Move the cursor to the sub-group using the ► button, select a sub-group using the ▲/▼ button and press the **OK** button. The programme guide for the selected channel list is displayed.

Viewing Using Time Bar
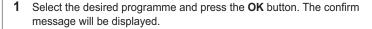
You can quickly search the time zone using the time bar.

1   Press the **GREEN** button to display time bar.

2   Select the each button using the ◄/► button and press the **OK** button to move the time bar. If you press the button repeatedly, the same operation is repeated.

3   Each button functions as follows.

Now   Moves to the current programme where the cursor is located.

◄   Moves back to the previous programme or 30 minutes before.

►   Moves forwards to the next programme or 30 minutes ahead.

◄◄   Moves back to 2 hours before.

►►   Moves forwards to 2 hours ahead.

◄Day   Moves back to one day before.

Day►   Moves forwards to one day ahead.

4   Select ↺ button and press the **OK** button to exit the time bar.

Reserving a Watching

You can reserve a watching of the future programme in the Electronic Programme Guide (EPG).

1   Select the desired programme and press the **OK** button. The confirm message will be displayed.

2   Select **OK** and press the **OK** button to reserve the programme. When a reservation has been completed, the icon (ⓘ) is displayed on the reserved programme. Press the **OK** button again to cancel reservation.

3   Press the **YELLOW** button to move to the Schedule screen. The schedule screen displays the reserved programme list and lets you review, edit or delete the reservations.

4   By the reserved time, the programme will be displayed.

Note: If the channel is locked, restricted by watching time, you will be prompted to enter your password to complete the reservation. The default password is 0000. If you have forgotten your password, please contact your local TV distributor.
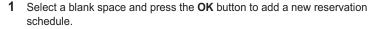
Schedule

You can add or edit the reservation using the Schedule screen.

Press the **YELLOW** button to display the schedule list.

Adding a Reservation

1   Select a blank space and press the **OK** button to add a new reservation schedule.

2   Change **Channel No.** and **Time** using the **NUMBER (0-9)** buttons.

3   Change **Repeat** mode using the ◄/► button. The options are **Once**, **Daily** and **Weekly**.

4   Select **Save** and press the **OK** button to complete.

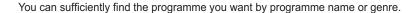**5**   Select **Cancel** and press the **OK** button to cancel the reservation.

Notes:
1. If the programme is overlapped with another programme, adjust the reservation appropriately.
2. If the channel is locked, restricted by watching time, you will be prompted to enter your password to complete the reservation. The default password is 0000. If you have forgotten your password, please contact your local TV distributor.
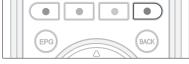
Editing a Reservation

1   Select the scheduled programme and press the **OK** button to edit the reservation information.

2   Change **Channel No.** and **Time** using the **NUMBER (0-9)** buttons.

3   Change **Repeat** mode using the ◄/► button. The options are **Once**, **Daily** and **Weekly**.

4   Select **Save** and press the **OK** button to complete.

5   Select **Cancel** and press the **OK** button to cancel the editing.

6   Select **Delete** and press the **OK** button to delete the reserved TV.
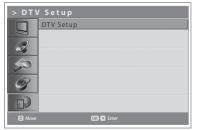
Finding a Programme

You can sufficiently find the programme you want by programme name or genre.

1   Press the **BLUE** button.

2   Enter the programme name directly using the keyboard displayed on the screen.

3   When entering programme name is complete, select **Find** and press the **OK** button.

Notes:

1. Select the letter using the ▲/▼/◄/► button and press the **OK** button to enter the programme name on the keyboard screen.

2. If you select **Previous** or **Next** on the keyboard displayed on the screen and press the **OK** button, the keyboard layout is switched.

4   Select **By Genre** and press the **OK** button to search programme by genre.

5   Select the genre using the ▲/▼/◄/► button and press the **OK** button.

6   If you select a programme from **Found Programme List** screen and press the **OK** button, you can watch the programme if it is on air or reserve it if it is the future programme. If you want to find another programmes, press the **BACK** button to return to the previous menu.

Note: Found Programme List may differ depending on the provided programme information.

> D T V Setup

| | DTV Setup |
| | |

🖥️

🎧

🔍

🌐

📖

⊟ Move   OK ▶ Enter

(32 inch)   **(19, 22 inch)**

| Digital TV |
| Analog TV |
| AV1 |
| AV2 |
| AV3 |
| S-Video |
| Component |
| PC |
| HDMI1 |
| HDMI2 |

| Digital TV |
| Analog TV |
| AV1 |
| AV2 |
| S-Video |
| Component |
| PC |
| HDMI |

(DTV SETUP)   (OPT+)   (▶◀)   (POS)

(◁?)   (▭)

This chapter describes how to set up the **DTV Setup** menu for digital channels. You can set the options such as the parental control, time setting, channel editing, installation setting and software upgrade.

Note: The **DTV Setup** menu is available in the **Digital TV** input mode only.

To access the **DTV Setup** menu, select **DTV Setup** on TV menu and press the **OK** button while in the Digital TV input mode. You can easily access by pressing the **DTV SETUP** button on your remote control.

Preferences

You can set censorship and all other items suitable for your environment.

Notes:
1. Press the **BACK** or ◄ button to save the changes and return to the previous menu. Press the **DTV SETUP** or **EXIT** button to exit from the menu screen.
2. You can easily select all menu items using the assigned number for each menu.

▌ Parental Control

◄ Preferences

1 Parental Control ▶
2 Language Setting
3 Time Setting
4 Schedule
5 Miscellaneous Setting

Channel View Control

You can set parental control for each programme and watching time. You can also change your password.

1 Press the **DTV SETUP** button.

2 Select **Preferences** using the ▲/▼ button and press the **OK** or ► button.

3 Select **Parental Control** using the ▲/▼ button and press the **OK** or ► button.

4 When prompting message is displayed to ask password, enter the password using the **NUMBER(0-9)** buttons.

Note: The default password is 0000. If you have forgotten yuor password, please contact your local TV distributor.

Censorship Classification

Censorship Classification allows you to block programmes according to the age level you have set.

1   Select **Censorship Classification** using the ▲/▼ button and press the **OK** or ▶ button.

2   Select the required age level using the ▲/▼ button and press the **OK** button.

   View All   All programmes can be watched because there is no age limitation.
   7   Programmes are blocked for children under the age of 7.
   12   Programmes are blocked for children under the age of 12.
   14   Programmes are blocked for children under the age of 14.
   18   Programmes are blocked for children under the age of 18.
   Lock All Programmes are blocked without considering the age level.

Notes:
1. You have to enter the password to watch the programme which is blocked by the age level.
2. The default password is 0000. If you have forgotten your password, please contact your local TV distributor.
3. Some broadcasting companies do not broadcast the censorship classification.

Change Password

You can change the current password.

1   Select **Change Password** using the ▲/▼ button and press the **OK** or ▶ button.

2   Enter **New Password** using the **NUMBER(0-9)** buttons, select **OK** and press the **OK** button.

3   Enter the new password again to confirm **Verify Password** and select **OK** and press the **OK** button.

Note: The default password is 0000. If you have forgotten your password, please contact your local TV distributor.

Language Setting

1 Press the **DTV SETUP** button.

2 Select **Preferences** using the ▲/▼ button and press the **OK** or ► button.

3 Select **Language Setting** using the ▲/▼ button and press the **OK** or ► button.

Menu/Audio/Subtitle Language

You can set the language for menu, audio and subtitle.

1 Select **Menu/Audio/Subtitle Language** using the ▲/▼ button and press the **OK** or ► button.

2 Select a language using the ▲/▼ button and press the **OK** button.

Subtitle Display

You can select to display the subtitle automatically or not.

1 Select **Subtitle Display** using the ▲/▼ button.

2 Select from **Auto** and **Manual** using the **OK** or ► button.

Auto	Subtitles are displayed automatically in the predefined subtitle language.
Manual	Subtitles are displayed in the language when you select the subtitle language by pressing the **SUBTITLE** button on the remote control.

Subtitle Font

You can select the subtitle font.

1 Select **Subtitle Font** using the ▲/▼ button.

2 Select from **Variable** and **Fixed** using the **OK** or ► button.

Variable	Uses the horizontally variable subtitle font.
Fixed	Uses the fixed subtitle font.

▌ **Time Setting**

1. Press the **DTV SETUP** button.

2. Select **Preferences** using the ▲/▼ button and press the **OK** or ▶ button.

3. Select **Time Setting** using th ▲/▼ button and press the **OK** or ▶ button.

GMT Offset

You can set the GMT offset for current time.

1. Select **GMT Offset** using the ▲/▼ button and press the **OK** or ▶ button.

2. Select your GMT offset using the ▲/▼ button and press the **OK** or ▶ button.

Notes:

1. The current time is set automatically whenever GMT offset changes.
2. When **GMT Offset** is set to **Auto**, you have to tune the terrestrial channel for a certain period of time to set the time automatically.

Daylight Saving Time

You can turn on/off the daylight- saving time. Select **Daylight Saving Time** using the ▲/▼ button and press the **OK** or ▶ button to select **Enable/Disable**.

Schedule

You can reserve a programme and watch it anytime you want.

1   Press the **DTV SETUP** button.

2   Select **Preferences** using the ▲/▼ button and press the **OK** or ► button.

3   Select **Schedule** using the ▲/▼ button and press the **OK** or ► button.

4   The reserved programmes will be displayed in time order. Select the programme you want to edit and press the **OK** button. Select a blank space and press the **OK** button to add a new reservation.

Note: For detailed information about **Schedule**, refer to *Chapter 9. Using the Digital TV Features > Programme Guide > Schedule*.

Miscellaneous Settings

1   Press the **DTV SETUP** button.

2   Select **Preferences** using the ▲/▼ button and press the **OK** or ► button.

3   Select **Miscellaneous Settings** using the ▲/▼ button and press the **OK** or ► button.

i-Plate Display Time

You can set the duration of the information box to be displayed when you switch the channel.

1   Select **i-Plate Display Time** using the ▲/▼ button and press the **OK** or ► button.

2   Select an option between 1 ~ 20 seconds using the ▲/▼ button and press the **OK** button.

Note: When it is set to **Disable**, the i-plate will not be displayed when the channel is switched.

OSD Transparency

You can set the transparency of On Screen Display.

1   Select **OSD Transparency** using the ▲/▼ button and press the **OK** or ► button.

2   Select an option among **Disable**, **25**, **50** and **75** using the ▲/▼ button and press the **OK** button.

Disable   Fully opaque screen
25, 50, 75   The bigger the number, the more transparent the screen.

Option in Channel List

You can set whether or not to display the scrambled icon in the i-plate and channel list.

1   Select **Option in CH List** using the ▲/▼ button.

2   Select **On/Off** using the **OK** or ▶ button.

    On   Scramble icon is displayed in the i-plate and channel list.
    Off   Scramble icon disappears from the i-plate and channel list.

Edit Channels

▌ Edit Terrestrial Channel Lists

Note: The default password is 0000. If you have forgotten your password, please contact your local TV distributor.

You can edit the terrestrial channels.

1   Press the **DTV SETUP** button.

2   Select **Edit Channels** using the ▲/▼ button and press the **OK** or ▶ button.

3   Select **Edit Terrestrial Channel Lists** using the ▲/▼ button and press the **OK** or ▶ button.

4   Press the **OK** or ▶ button in **Group** to select the group of channel list. Select the group using the ▲/▼ button and press the **OK** button.

5   Select a channel using the ▲/▼ button and press the **OK** button. Select **Renumber** using the ▲/▼ button and press the **OK** button. Press the **NUMBER(0-9)** buttons to enter the channel number.

6   Select a channel using the ▲/▼ button and press the **OK** button. You can select more than one channel. Select **Move** using the ▲/▼ button and press the **OK** button. Move the cursor to the destination using the ▲/▼ button and press the **OK** button.

7   Select a channel using the ▲/▼ button and press the **OK** button. You can select one channel at a time. Select **Rename** using the ▲/▼ button and press the **OK** button. Enter a channel name directly using the keyboard displayed on the screen. When entering channel name is complete, select **OK** and press the **OK** button. .

8   Select a channel using the ▲/▼ button and press the **OK** button. You can select more than one channel. Select **Delete/Lock** using the ▲/▼ button and press the **OK** button.

9   Select **Select All/Unselect All** using the ▲/▼ button and press the **OK** button to select/unselect all channels.

Notes:
1. When the locked channel(s) is selected or all channels are locked, **Lock** is switched to **Unlock**. When you select **Unlock** and press the **OK** button, locked channel is switched to an unlocked channel.
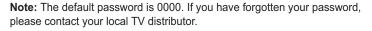**2.** Select **Trash** in **Group** to restore the deleted channels.

Installation

This section describes how to search for digital channels and other series of procedures.

Notes:

1. Press the **BACK** or ◄ button to save the changes and return to the previous menu. Press the **DTV SETUP** or **EXIT** button to exit from the menu screen.

2. You can easily select all menu items using the assigned number for each menu.

Terrestrial Channel Search

Note: The default password is 0000. If you have forgotten your password, please contact your local TV distributor.

You can search the terrestrial channels.

1 Press the **DTV SETUP** button.

2 Select **Installation** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Terrestrial Channel Search** using the ▲/▼ button and press the **OK** or ▶ button.

Automatic Search

If your TV is connected to the aerial, you can automatically search channels without entering any other information.

1 Select **Automatic Search** using the ▲/▼ button and press the **OK** or ▶ button.

2 Wait while channel search continues. This may take a few minutes.

3 While operating search, the cursor is located at **Stop**. Therefore, if you press the **OK** button during searching, the operation is stopped and the channels found until then will be displayed.

4 If search operation is successfully completed and the channel does not exist, press the **OK** button and try to reset the search operation again if necessary.

5 You can delete unnecessary channels from the searched channels. Select the channels to delete and press the **OK** button. Then select **Delete** and press the **OK** button. To delete all channels, select **Select All** to select all channels, select **Delete** and press the **OK** button.

6 When completing channel search and deleting unnecessary channels, select **Save** and press the **OK** button to save the changes.

Manual Search

You can search channels manually by searching parameters, using the MUX information.

1 Select **Manual Search** using the ▲/▼ button and press the **OK** or ▶ button.

2 Select **Channel** using the ▲/▼ button and press the **OK** or ▶ button. Select one of channels using the ▲/▼ button and press the **OK** button. When entering channel value, the appropriate frequency value is displayed.

3 Select **Frequency** using the ▲/▼ button and press the **OK** or ▶ button. Enter the frequency using the **NUMBER(0-9)** buttons and press the **OK** button. When entering frequency, the appropriate channel for the entered frequency is automatically displayed on channel.

4 Select **Band Width** using the ▲/▼ button and press the **OK** or ▶ button to select from **7** and **8MHz**.

5 Select **Network Search** using the ▲/▼ button and press the **OK** or ▶ button to select **Enable/Disable**.

6 Select **Search** using the ▲/▼ button and press the **OK** button. Channel search will activate.

Invisible Channel Search

Select **Invisible Channel Search** using the ▲/▼ button and press the **OK** or ▶ button to select **Enable/Disable**.

Note: If you set **Invisible Channel Search** to **Enable**, search channel again to view the invisible channels.

Software Update

In order to maintain proper performance of the TV, it is essential to have the most up-to-date software. Visit the Humax website to check the latest news and newly released software versions. **– http://www.humaxdigital.com.**

It is recommended that you periodically check for the availability of software update.

1 Press the **DTV SETUP** button.

2 Select **Installation** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Terrestrial Software Update** or **Satellite Software Update** using the ▲/▼ button and press the **OK** or ▶ button.

OTA (Over the Air)

OTA, an abbreviation of **Over–the-Air**, means that the software can be downloaded through your aerial. The manufacturer reserves the right to decide when and where to release software by this process. The software update via your aerial will only occur under the following circumstances.

1 The equipment should have appropriate loader software.

Caution: Please note that if you don't have normal loader software, the equipment may not be updated or work after software update.

2 The manufacturer decides to release software downloading via a designated aerial system.

3 The equipment must be **tuned** properly according to the guidelines within this manual.

4 Update software when the quality of receiving signal strength is high. If the weather is not so good that the quality of receiving signal strength is not recommendable, perform the software update later.

Caution:

• *Please be careful to keep the power on and the power cord plugged in during software update. If the power is disconnected during software update, it may cause fatal damage to the TV.*

• *Please be careful not to pull out the signal line (co-axial Cable) during software update. Update may be interrupted and the TV may not work.*

Notes:
1. The other functions of TV cannot work at all during software update.
2. It may take 5 ~10 minutes to update software.
3. Scheduling operation cannot work during software update.

Automatic Update

You can set the TV to find HUMAX software update site and update software automatically.

1 Select **Automatic Update** using the ▲/▼ button and press the **OK** or ▶ button.

2 Automatically search for new software. Select **Cancel** and press the **OK** button to finish search.

3 When detecting software update, the following result is displayed. If new software is not found by automatic update, use manual update.

4 Select **Yes** and press the **OK** button to start updating. Select **No** and press the **OK** button to return to the previous menu without updating.

5 When completing the software update, the TV is automatically powered off and on again.

Manual Update

You can perform manual update using know MUX information.

1 Select **Manual Update** using the ▲/▼ button and press the **OK** or ▶ button.

2 Select **Channel** using the ▲/▼ button and press the **OK** or ▶ button. Select the channel number using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Frequency** using the ▲/▼ button and press the **OK** or ▶ button. Enter the frequency using the **NUMBER(0-9)** buttons.

4 Select **Search** and press the **OK** button to search software. Existing new software will show. If new software does not exist, press the **OK** button to return to the manual update menu.

5 Select **Yes** and press the **OK** button to start updating. Select **No** and press the **OK** button to return to the previous menu. Performs software update. Please wait until it is completed.

6 When completing the software update, the TV is automatically powered off and on again.

Regular Auto Update

You can update the channel and software and specify the update option.

1 Select **Regular Auto Update** using the ▲/▼ button and press the **OK** or ▶ button.

2 Select **Update Target** using the ▲/▼ button and press the **OK** or ▶ button. Select an option from the list using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Auto Search in Standby/Operate** using the ▲/▼ button and press the **OK** or ▶ button to select **Enable/Disable**.

4 Select **Search Time** using the ▲/▼ button and press the **OK** or ▶ button. When selecting **Enable**, set **Search Time** using the **NUMBER(0-9)** buttons and select **OK** and press the **OK** button.

5 Select **Frequency** using the ▲/▼ button and press the **OK** or ▶ button to select from **Daily** and **Weekly**.

S/W Update from PC

You can connect your TV to the PC directly and update your software by transferring the new software from the PC. Follow these steps to download new software from PC to this TV.

1 Download new software file (HDF files) equivalent for this TV model from our website into your computer **(http://www.humaxdigital.com)**.

2 Download and install download tool file from our website into your computer.

3 Connect your PC to this TV with **RS-232C** serial cable(not supplied).

4 Execute installed download tool, and then follow the instructions contained the download tool.

5 Reconnect the power cable of the TV and press the **STANDBY** button to make this TV operating.

▌ **Default Setting**

Default setting restores the TV to the default settings.

Warning: Please note that once you perform default setting, all data for the digital channels such as digital channel list and user configured data are deleted.

1 Press the **DTV SETUP** button.

2 Select **Installation** using the ▲/▼ button and press the **OK** or ▶ button.

3 Enter the password using the **NUMBER(0-9)** buttons.

4 Select **Default Setting** using the ▲/▼ button and press the **OK** or ▶ button.

5 Select **Yes** and press the **OK** button to restore all setting to factory default.
Select **No** and press the **OK** or **BACK** button to return to the previous menu.

6 Confirm again to start loading default setting. Enter the password using the **NUMBER(0-9)** buttons to perform restoring.

7 When completing the default setting, the installation wizard for digital channels will run automatically .
For detailed information about the installation wizard, refer to *Chapter 3. Installation Wizard > Wizard for Digital Channels*.

Note: The default password is 0000. If you have forgotten your password, please contact your local TV distributor.

System

▌ Status

You can view system information.

1 Press the **DTV SETUP** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Status** using the ▲/▼ button and press the **OK** or ▶ button.

▌ Signal Detection

You can view the signal strength and signal quality of the channel that is currently on AV.

1 Press the **DTV SETUP** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Signal Detection** using the ▲/▼ button and press the **OK** or ▶ button.

▌ Common Interface

You can view the current status of the CI-Module.

1 Press the **DTV SETUP** button.

2 Select **System** using the ▲/▼ button and press the **OK** or ▶ button.

3 Select **Common Interface** using the ▲/▼ button and press the **OK** or ▶ button.

Note: The displayed information about a Common Interface may differ depending on Common Interface type.

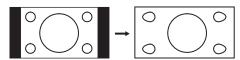# Setting the Aspect Ratio (for 32 inch)
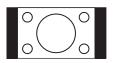
You can select an aspect ratio mode by pressing the **WIDE** button repeatedly on the remote control.

Auto > Regular > Panoramic > 14:9 Zoom > 16:9 Zoom > 16:9 Zoom Subtitle > Full

Notes:
1. When the Component, HDMI1 or HDMI2 input mode, you can select only the Auto, Regular, 14:9 or Full.
2. It is not available in the PC input mode.

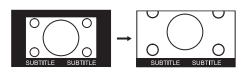**Regular**
Use to view a normal picture (4:3 aspect ratio) unchanged.

Panoramic
Stretches the left and right sides of a normal picture to fill the screen, in a way that does not appear unnatural.
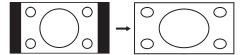
Note: In Panoramic mode, the top, bottom, left and right of the picture are slightly cut off.

14:9 Zoom
Use to expand a picture with a 14:9 aspect ratio.

16:9 Zoom
Use to expand a wide picture (16:9 aspect ratio).

16:9 Zoom Subtitle
Use to expand a picture with a 16:9 aspect ratio having subtitles at the bottom of the screen.

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

Note: For pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), select **Full** mode to restore their original dimensions.

To mode the picture vertically:
If you cannot see subtitles at the bottom of the screen, or if the top or bottom is cut off, move the picture vertically using the ▲/▼ button before the display disappears.

Note: If you change the aspect ratio mode, the picture returns to its default position.

Setting the Aspect Ratio (for 19, 22 inch)

You can select the modes by simply pressing the **WIDE** button on the remote control.

Auto > 4:3 > **14:9 > Full > Zoom**

Notes
1. When the Component or HDMI input mode, you can select only the 4:3, 14:9 or Full.
2. It is not available in the PC input mode.

Auto
Displays the picture as the original aspect ratio of the signal you received.

4:3
Displays the picture in the 4:3 ratio. The black bar appears on each side.

14:9
Displays the picture in the 14:9 ratio. The thin black bar appears on each side.

Full
Displays the picture in the 15:9 ratio to fill the entire screen.

Zoom
Displays the picture zoomed to fill the 14:9 ratio with black sidebars. The top and bottom of the picture are slightly cropped.

Displaying Teletext information

You can display teletext information at any time on your TV.
Most TV broadcasting stations provide text information services via teletext.
The index page of the teletext service gives you information on how to use the service. You can also select various options to fit your needs using the remote control buttons.

Note: To properly display teletext information, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

TELETEXT function buttons are as follows:

▤ (**Teletext On/Off**)
Activates or deactivates the teletext service.

▧ (**Mix**)
Overlaps the teletext with the broadcasting screen.
Adjusts the opacity to the background in Teletext mode.

▤ (**Index**)
Displays the teletext index page.

▤ (**Cancel**)
Displays TV programme when waiting for the new teletext page.

▤ (**Reveal**)
Shows the hidden information. (answers to quiz games, for example)
Press it again to return to normal display.

▤ (**Mode**)
Selects the teletext mode (LIST/FLOF)

▤ (**Size**)
Displays the double-size letters for lower half of the screen, press it again to return to normal display.

▤ (**Hold**)
Holds the display on a given page if the selected page is linked with several secondary pages that automatically follow. To resume, press it again.
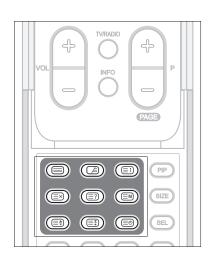
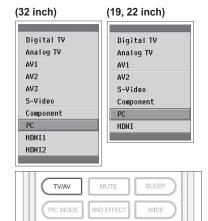▤ (**Subpage**)
Displays the available subpage.

Numeric (0~9)
Press to enter the three-digit page number given in the content.

Coloured buttons (**Red**/**Green**/**Yellow**/**Blue**)
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to your needs. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.
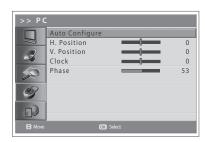
(32 inch)

Digital TV
Analog TV
AV1
AV2
AV3
S-Video
Component
PC
HDMI1
HDMI2

(19, 22 inch)

Digital TV
Analog TV
AV1
AV2
S-Video
Component
PC
HDMI

TV/AV   MUTE   SLEEP

PIC MODE   SND EFFECT   WIDE

*The **PC** menu is available only when there is a PC input signal.*

1 Press the **TV/AV** button to switch to **PC** mode.

2 Select **PC** using the ▲/▼ button and press the **OK** button.

Auto Configure

```
>> PC
    Auto Configure
    H. Position      ──┤──      0
    V. Position      ──┤──      0
    Clock            ──┤──      0
    Phase            ───        53

  Move          OK Select
```
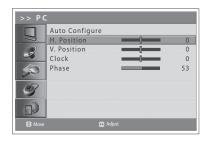
Automatically optimizes the display. This is recommended for the first time connecting to a PC.

3 Press the **MENU** button.

4 Select **System** using the ▲/▼ button and press the **OK** or ► button.

5 Select **PC** using the ▲/▼ button and press the **OK** or ► button.

6 Select **Auto Configure** using the ▲/▼ button and press the **OK** button.

Position

```
>> PC
    Auto Configure
    H. Position      ──┤──      0
    V. Position      ──┤──      0
    Clock            ──┤──      0
    Phase            ───        53

  Move          Adjust
```
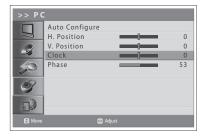
Adjusts the display position to PC if it does not fit the TV screen.

6 Select **H. Position/V. Position** using the ▲/▼ button.

7 Adjust the optimal position using the ◄/► button.

Clock

```
>> P C
   Auto Configure
   H. Position          ────┃────    0
   V. Position          ────┃────    0
   Clock                ────┃────    0
   Phase                ──────       53

   ⊟ Move          🎚 Adjust
```
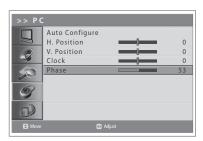
Adjusts the horizontal feature of screen by increasing or decreasing the number of pixels.

6 Select **Clock** using the ▲/▼ button.

7 Adjust the optimal horizontal feature using the ◄/► button.

Phase

```
>> P C
   Auto Configure
   H. Position          ────┃────    0
   V. Position          ────┃────    0
   Clock                ────┃────    0
   Phase                ──────       53

   ⊟ Move          🎚 Adjust
```

Sets the focus of screen.

6 Select **Phase** using the ▲/▼ button.

7 Adjust the optimal focus using the ◄/► button.

Note: If noise is present, change the PC mode to another resolution, change the refresh rate to another rate until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

Menu Map

Picture	Mode
	Brightness
	Contrast
	Sharpness
	Colour
	Hue
	Fleshtone
	Colour Temp.
	NR -------------------- (32 inch only)
	Backlight
Sound	Effect
	Balance
	AVL
	SRS TruSurround XT
Channel (Analog TV Input only)	Country
	Antenna Power
	Auto Search
	Manual Search
	Edit Channels
System	Language
	Time Setting
	PIP ------------------- (32 inch only)
	PC
	OSD Transparency
	Blue Back ----------- (32 inch only)
	Panel Off
	Default Setting

DTV Setup (Digital TV Input only)	Preference	Parental Control
		Language Setting
		Time Setting
		Schedule
		Miscellaneous Settings
	Edit Channels	Edit Terrestrial Channel Lists
		Edit Satellite Channel Lists
		Edit Favourite Channels
		Automatic Channel Numbering
		Renew Channel Numbers
	Installation	Terrestrial Channel Search
		Satellite Channel Search
		Terrestrial Software Update
		Satellite Software Update
		Default Setting
	System	Status
		Signal Detection
		Common Interface

Troubleshooting

Before contacting your local service dealer, please make sure you refer to the following guide. If the TV does not work normally after completing the following trouble shooting, please contact your local TV distributor or service centre.

(1) No message is displayed or the TV has no power.
- Check the main power cable and make sure it is plugged into a suitable power outlet.
- Check that the mains supply is switched on.
- Check that the power switch is on at the bottom of the TV (where applicable)
- Connect the power cable to a different power outlet.

(2) No picture
- Make sure that the TV is power on and in operation mode (press the STANDBY button).
- Make sure that the AV cable is firmly connected to the TV. You may need to remove the cable from both ends and reconnect.
- Make sure that the cable is properly connected to the TV.
- Be sure to activate channel search.
- Check the brightness level of the TV.
- Check if the channel is currently on air. Contact the broadcaster to ensure that the channel is running.

(3) Poor picture/sound quality
- Install the antenna in an obstacle-free place.
- Make sure there is no mobile phone or microwave oven near the TV.
- Keep the power and the antenna cable for the satellite apart from each other.
- Adjust the antenna direction to get the better picture.
- Set the antenna power in menu to On, if you use the active antenna to improve the reception.
- Check the signal levels and adjust your antenna if the level is too low. The signal level may be affected by weather conditions.

Note: If the antenna is covered with snow or the RF is weakened by heavy rain, the condition of the sound and picture may temporarily be poor. However, the poor sound and picture quality due to weather conditions cannot be accepted as a malfunction of product.

- Check that your dish alignment is correct.
- Change the satellite dish for a larger one as this will increase the signal levels received.
- Replace the LNB with a lower noise factor in cases where the noise factor is too high.
- Replace the LNB with a new one in case it is damaged or out of order.
- When the 1080i video input signal is displayed on the TV screen through the Component or HDMI jack, the screen flicker may occur. (19 inch only)

(4) No or poor sound
- Check that your AV cable is connected correctly.
- Check the volume levels of your TV.
- Check if the TV is on mute.
- Check audio type or soundtrack option in the AV menu.

(5) Remote Control does not operate.
- To control the TV, the top end of the remote control should point directly towards the receiving part of the TV.
- Remove and reinsert the batteries in the remote control.
- Replace the batteries in the remote control for a new set.

(6) Cannot make reservations.

- Check that no previous reservations are conflicting with the new reservation.
- Check that the TV is switched on at the time of the reservation.

(7) Cannot watch scrambled channel.

- Check that you have the appropriate Smartcard. Reinsert the Smartcard and make sure it initializes correctly.
- Check in the menu that the TV is detecting the Smartcard.
- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Ensure that the Smartcard is not damaged.

(8) No password information is given.

- The default password is always 0000.

(9) Channel search does not work.

- Check that your cable is connected correctly.
- Make sure that the antenna setting in the menu is correct.
- Use the appropriate antenna capable of receiving VHF or UHF channels for your area.

(10) Cannot update new software.

- You can get an update. If the TV does not show a message requesting update, that means no software is available.

(11) Cannot watch pay channels.

- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Contact your network operator for more information.

Error Message

Error message	Possible causes	What to do
No or bad signal	The satellite dish is not pointing at the satellite.	Adjust dish alignment.
	Signal is too weak.	Connect a signal amplifier.
	Satellite dish is too small.	Change to a larger dish.
	Problem with LNB.	Change the LNB.
	The aerial is not pointing properly.	Adjust aerial. Check the cable from the aerial. If you cannot resolve the problem, you may need to have your aerial and installation tested by a professional.
The channel is scrambled or not available.	The channel has a signal, but no audio or video is provided. The channel has not been deleted by broadcasting company.	Confirm if the channel is currently on air. Remove the channel from the channel list and check for new transponder details.
	The channel is for data broadcasting.	The channel cannot be viewed with the appropriate model that supports data channels.
	Smartcard is not plugged in.	Insert Smartcard.
	Wrong Smartcard is in use.	Insert the appropriate Smartcard for the channel(s) you wish to view.
	Smartcard is not plugged in correctly.	Reinsert Smartcard; ensure that it is inserted correctly.
	Smartcard is damaged.	Contact your Smartcard retailer or channel broadcaster for a Smartcard replacement.
Audio not available	The channel has a video signal, but no audio is provided.	Press the audio button on your remote control to confirm that the channel has audio options.
CI module not installed.	CI module is not installed.	Insert CI module.
	CI module is not inserted correctly	Reinsert CI module.
	CI module is not recognized.	Insert a different CI module to check if your existing module is working.
Invalid CI module	Wrong CI module.	Insert the correct CI module.
	CI module is not inserted correctly.	Remove and reinsert the CI module.
	CI module is damaged	Replace CI module.
Short LNB	LNB cable is short.	Replace LNB Cable.
	LNB is internally short.	Replace LNB.
	Alien substance is inserted in LNB IN port and port may be damaged.	Remove the alien substance and contact local service center in case damaged has occurred.

Specification

Item		32 Inch Model	22 Inch Model	19 Inch Model
LCD Panel	Type	Colour active matrix TFT-LCD	Colour active matrix TFT-LCD	
	Display Area	32.0"	22.0"	19.0"
	Max. Resolution	1366 x 768 pixels	1680 x 1050 pixels	1440 x 900 pixels
	Viewing Angle	R/L : 178 , U/D : 178 (CR ≥10)	R/L : 160, U/D : 160 (CR ≥10)	
PC Monitor	Sync	Separate	Separate	
	Horizontal Frequency	31.469~48.363 kHz	31.469~48.363 kHz	
	Vertical Frequency	60Hz	60Hz	
	MAX. Resolution	1360 x 768 pixels@60Hz	1360 x 768 pixels@60Hz	
Input/ Output	Video Input	Analog + Digital Tuner(1), Digital SatelliteTuner(1), SCART(2), RCA, S-Video, Component, HDMI(2), PC	Analog + Digital Tuner(1), Digital Satellite Tuner(1), SCART, RCA, S-Video, Component, HDMI, PC	
	Audio Input	RCA(R/L), Component (R/L), HDMI, PC Audio	RCA(R/L), Component (R/L), HDMI, PC Audio	
	Audio Output	S/PDIF, Speaker, Headphone	Speaker, Headphone	
	Data Interface	RS-232C (for SW update)	RS-232C (for SW update)	
Regulation	Safety	CE	CE	
	EMI	CE	CE	
Others	Power	133 W (Max.)	78 W (Max.)	75 W (Max.)
	Speaker Output	7W x 2EA	8W x 2EA	3W x 2EA
	Plug & Play Level	DDC 1/2 B	DDC 1/2 B	
	Weight	NET 14.0kg / Gross 17.0kg	NET 7.2kg / Gross 8.9kg	NET 6.2kg / Gross 8.2kg
	Power Supply	AC 220V ~ 240V, 50/60Hz	AC 100V ~ 240V, 50/60Hz	
	Operating Temperature	5°C ~ 35°C	5°C ~ 35°C	
	Operating Humidity	30 ~ 80% RH	30 ~ 80% RH	

		Analog	Digital (Terrestrial)	Digital (Satellite)
TV Signal	Area	EU	EU	EU
	Antenna Input	IEC 169-2 Female	IEC 169-2 Female	IEC 169-24 (F-Type)
	Tuning System	FS	OFDM DVB-T	QPSK
	Colour System	PAL, B/G, D/K, I SECAM, B/G, D/K	B/G, I, D/K	B/G, I, D/K
	Sound System	AM / FM / Nicam	MPEG 1 Layer 1/2	MPEG-2 Audio/Musicam Layer Ⅰ & Ⅱ
	VHF	145.00 ~ 424.00MHz	177.50 ~ 226.50MHz	950.00 ~ 2150.00 MHz
	UHF	425.00 ~ 863.25MHz	425.00 ~ 863.25MHz	
	Teletext	Yes	Yes	Yes