HUMAX

LGB-17DTT

LCD Digital and Analogue TV

HUMAX

Caution

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 LCD-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 LCD-TV.

Read this manual carefully and make sure you understand the instructions provided. For your safety, check what the result of each action will be. Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations. Indicates additional information to the user to make the user aware of possible problems and information of any importance to help the user to understand, to use and to maintain the installation.

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

Safety and Warning

This **LCD-TV** has been engineered and manufactured to assure your safety. You can prevent serious electrical shock and other hazards by keeping in mind the following:
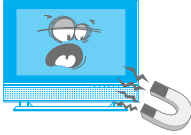
Do not place anything heavy, wet or magnetic on the LCD TV or the power cord. Never cover the ventilation openings with any material and never touch them with metalic or inflammable materials.
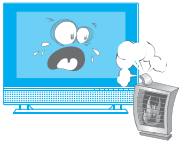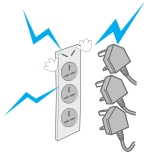
Avoid operating the LCD-TV in extreme heat, humidity or areas affected by dust.

+ Temperature : 41~95°F   + Humidity : 30~80RH

Be sure to tum the LCD-TV off before plugging the power cord into the socket. Make sure that the power cord and the other cords are securely and correctly connected.

Overloaded AC outlets and extension cords are dangerous, as are frayed power cords and broken plugs, which may cause electric shock or fire. Call your service technician for replacement.

Do not use sharp tools such as a pin or a pencil near the LCD-TV, as they may scratch the LCD surface.

Do not use a solvent, such a benzene, to clean the LCD-TV, as it will damage the LCD surface.
The apparatus shall not be exposed to dripping or splashing.

Warning

1. Follow these directions in order not to damage the power cord or plug.
Do not modify or process the power cord or plug arbitrarily. Do not bend or twist the power cord too much. Make sure to disconnect the power cord with the plug held. Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.

2. Follow these directions. Failure to follow one of them may cause electrical shock. Do not open the main body. Do not insert metals or inflammable objects inside the LCD-TV. Do not touch the power plug with wet hands. Disconnect the power cord in case of lightning.

3. Do not use the LCD-TV when it is out of order. If you continue to use the LCD-TV when defective, serious damage can be caused to it. Make sure to contact your local LCD-TV distributor if the LCD-TV is out of order.

4. Please do not insert metal or alien substance into the slots for the modules and smart cards. In doing so can cause damage to the LCD-TV and reduce its life span.
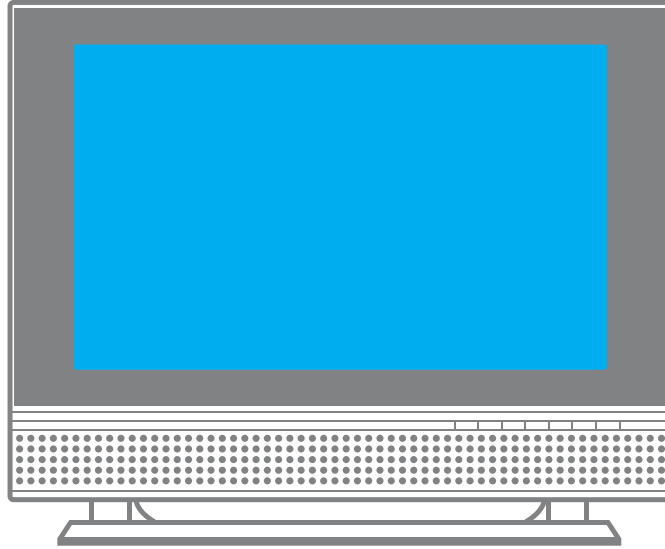
Contents

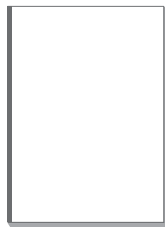**Please see page 27 to refer to the Digital -TV contents**
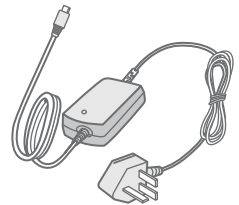
4. Contents

Package Contents

+ Please check all package contents before using your LCD-TV.
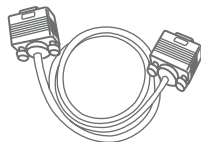+ Package Contents may be different according to the area.
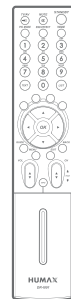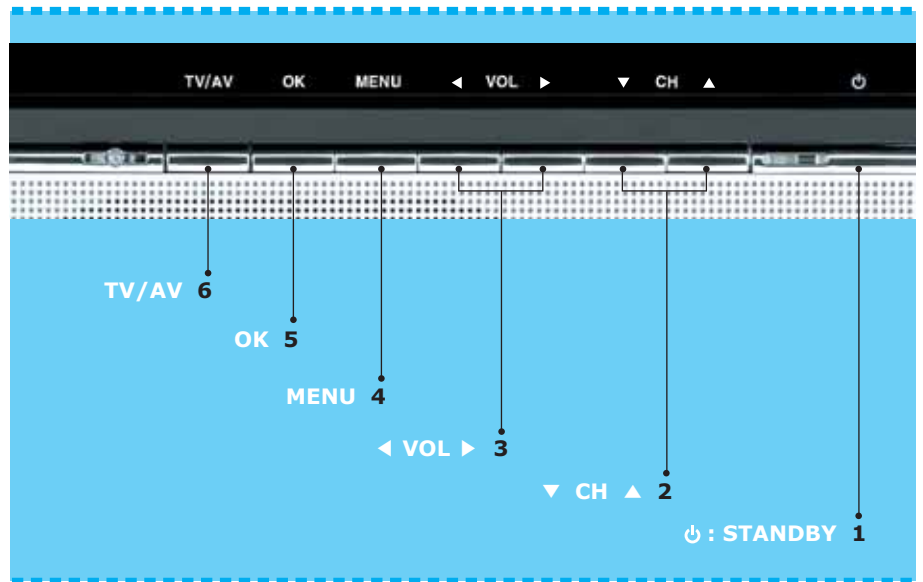
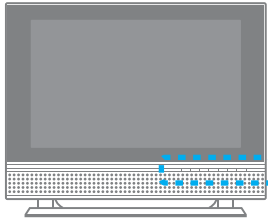**LCD - TV**

User's Manual

Power Cable/Adaptor

PC Cable

AAA Batteries (x2)

Remote Control (x1)

Front Panel

TV/AV **6**

OK **5**

MENU **4**

◀ VOL ▶ **3**

▼ CH ▲ **2**

⏻ : STANDBY **1**

1. ⏻ : STANDBY
Switches between Operation and Standby modes.
Displays Red colour when the set is in standby mode.
Changes to Green colour when the set is switched on.

2. ▼ CH ▲
Selects a programme or a menu item.

3. ◀ VOL ▶
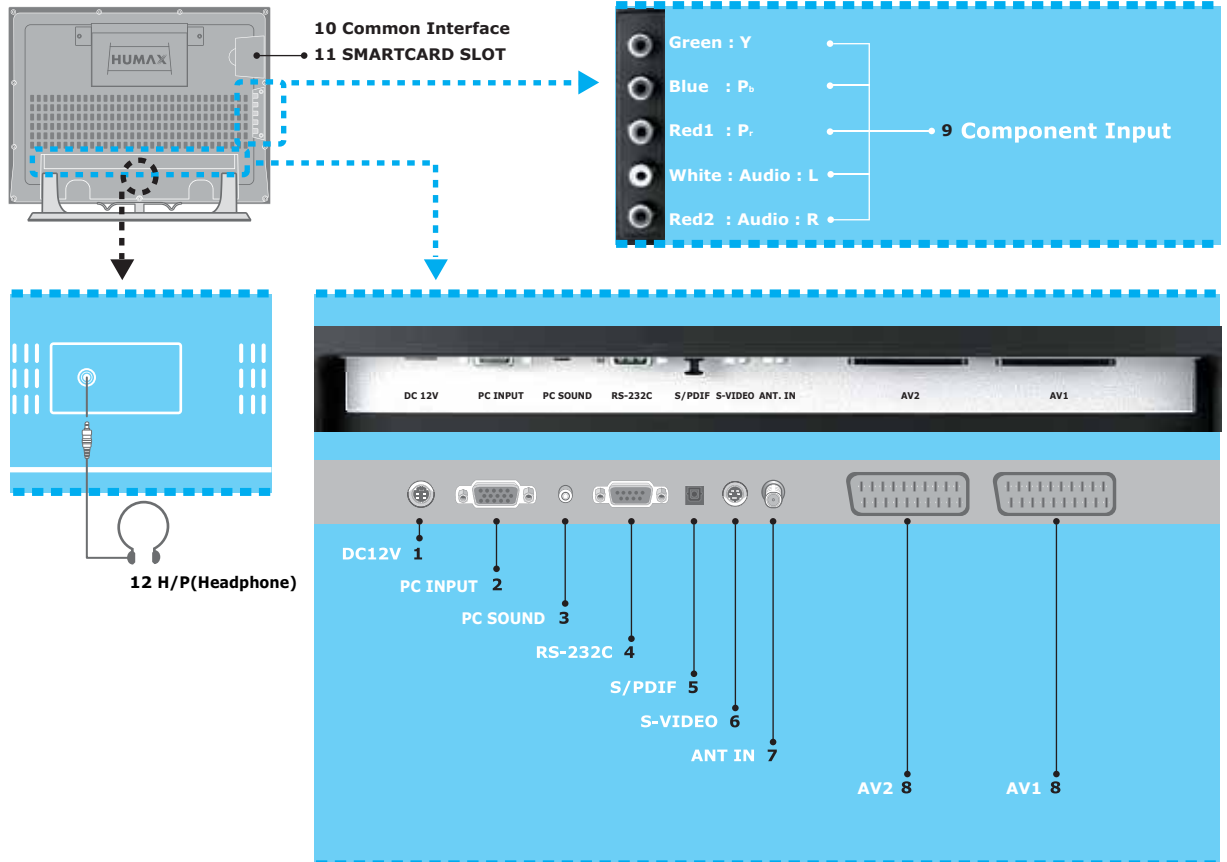Adjusts the volume. Adjusts the menu setting.

4. MENU
Displays the menu.

5. OK
Selects a menu or confirms the selected operation.

6. TV/AV
Selects input signal (Digital TV, Analog TV, AV1, AV2, S-Video, Component, RGB).

Rear Panel

10 Common Interface
11 SMARTCARD SLOT

Green : Y
Blue   : P$_b$
Red1 : P$_r$
White : Audio : L
Red2 : Audio : R

9 Component Input

12 H/P(Headphone)

DC 12V   PC INPUT   PC SOUND   RS-232C   S/PDIF S-VIDEO ANT. IN   AV2   AV1

DC12V **1**
PC INPUT **2**
PC SOUND **3**
RS-232C **4**
S/PDIF **5**
S-VIDEO **6**
ANT IN **7**
AV2 **8**   AV1 **8**

1. DC12V
Inputs DC power from power cable supplied.

2. PC INPUT
Connects to a signal from a personal computer, using the cable supplied.

3. PC SOUND
Connects to an audio signal of a personal computer.

4. RS-232C
Connects to your personal computer for software upgrade.

5. S/PDIF
Outputs a digital audio signals to a compatible Dolby decoder.

6. S-VIDEO
Connects an S-video lead from an external source.

7. ANT IN (Antenna In)
Connects your aerial for digital and analogue TV.

8. AV1(SCART1), AV2(SCART2)
Connects SCART to/from an external source.

9. COMPONENT INPUT
Connects to the audio and video output jacks of a DVD player.

10. COMMON INTERFACE
For one CA Module with a smart card.

11 SMARTCARD SLOT
Slot for a Smartcard.

12 H/P (Headphone)

Remote Control

All the functions can be controlled with the Remote Control handset. Some function can also be adjusted with the buttons on the front panel of the set.
Before you use the Remote Control handset, please install the batteries.

1. STANDBY
2. MUTE
3. TV/AV
4. WIDE
5. SND (Sound) EFFECT
6. PIC (Picture) MODE
7. NUMERICAL BUTTONS
8. LIST
9. TXT
10. COLOUR BUTTONS (R/G/Y/B)
11. ARROW BUTTONS
12. OK
13. BACK
14. EXIT
15. MENU
16. GUIDE
17. CH (Channel) ▲/▼ and PAGE ▲/▼
18. INFORMATION
19. VOL (Volume) ▲/▼

A • 20. FAV CH (Favourite Channel)
B • 21. RADIO CH
C • 22. DTV CH (Digital- TV Channel)
D • 23. DTV (Digital-TV) SETUP
E • 24. GAME
F • 25. SUBTITLE
G • 26. SOUNDTRACK
H • 27. SLEEP

Push

8. Remote Control

Remote Control

1. STANDBY (⬭)
Switches between Operation
and Standby modes.

2. MUTE (⬭)
Mutes the audio.

3. TV/AV (⬭)
Selects input signal between TV
and another signals.

4. WIDE (⬭)
Sets the display format.

5. SND Effect (⬭)
Changes the sound mode.

6. PIC Mode (⬭)
Changes the picture mode.

7. NUMERICAL BUTTONS (0~9)
Enters a channel number or menu
option number.

8. LIST (⬭)
Displays the channel list.

9. TXT (⬭)
Use the MHEG application

10. COLOUR BUTTONS (R/G/Y/B)
Selects colour keys for MHEG or EPG
in the Digital TV mode.
Selects color keys for teletext in the
Analog TV and Digital TV modes.

11. ARROW BUTTONS (▲,▼, ◀ , ▶)
Moves the cursor to the up, down,
left or right menu option.

12. OK (⬭)
Selects a menu, or confirms the
selected operation and displays the
channel list whilst watching a
programme.

13. BACK (⬭)
Returns to the previous menu and
screen.

14. EXIT (⬭)
Exits the main menu or Guide
screen.

15. MENU (⬭)
Displays the main menu.

16. GUIDE (⬭)
Displays the Programme Guide.

17. CH ▲/▼ and PAGE (▲, ▼)
Changes the Channel or Page.

18. INFORMATION (⬭)
Displays the information about
the channel and programme.

19. VOL ▲/▼
Adjusts the audio volume.

A • **20. FAV CH (⬭)**
Displays the Favourite Channel
List in the Digital TV mode.

B • **21. RADIO CH (⬭)**
Switches to digital Radio
channel.

C • **22. DTV CH (⬭)**
Switches to digital TV channel.

D • **23. DTV Setup (⬭)**
Displays the DTV Setup menu in
the Digital TV mode.

E • **24. GAME (⬭)**
Displays the game menu.

F • **25. SUBTITLE (⬭)**
Changes the subtitle language.

G • **26. SOUNDTRACK (⬭)**
Lists alternative soundtracks
enable stereo, dual or mono
sound.

H • **27. SLEEP (⬭)**
Sets the sleep time.

Remote Control

Push
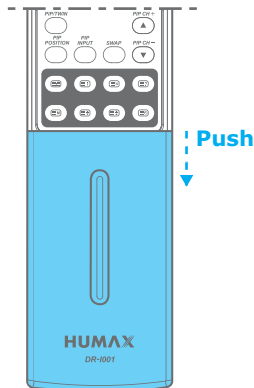
TELETEXT BUTTONS

A. TELETEXT/MIX (⬚)
Displays teletext with TV screen.
Change to Mix mode.

B. INDEX (⬚)
Returns to index page.

C. UPDATE (⬚)
Displays the TV picture on the
screen whilst waiting for the new
teletext page.

D. REVEAL (⬚)
Displays the concealed information.

E. MODE (⬚)
Changes the mode.

F. SIZE (⬚)
Selects a text size.

G. HOLD (⬚)
Holds function during teletext display.
Stops the automatic page change.

H. SUBPAGE (⬚)
Searches the sub-page using the sub-code.

PIP BUTTONS

I. PIP/TWIN (⬚)
Changes PIP/TWIN mode.

J. PIP POSITION (⬚)
Control the PIP position.

K. PIP INPUT (⬚)
Changes the PIP input mode.

L. SWAP (⬚)
Switches between main screen
and PIP screen.

M. PIP CH +/ - (▲, ▼)
Changes the PIP channel.
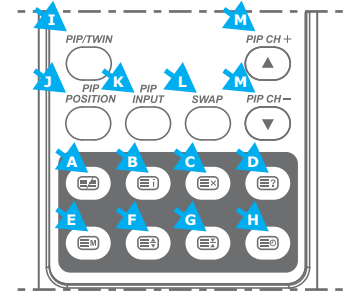
Inserting the Batteries

You must insert or replace the batteries in the remote control when you:
+ Purchase the TV.
+ Find that the remote control is no longer operating correctly.

Push   **Pull**   **Lock**

Insert

1   **2**   **3**
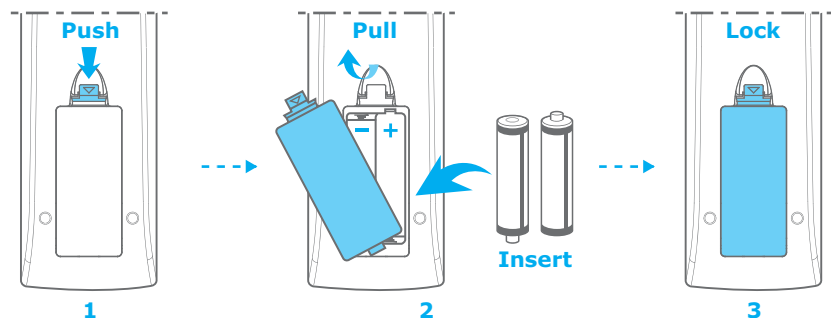
1. Pull the battery cover upward in the arrow direction to remove.

2. Insert the batteries as illustrated in the battery compartment.

3. Put the battery cover back.
+ Apply two 1.5V batteries of AAA type. Don't mix used batteries with new
  batteries.
+ Remove batteries when you don't use the remote control for long periods.
  Liquid leakage from old batteries may cause operation failure.

Notes for using remote control
+ Make sure these are no objects between the remote control and its sensor.
+ Don't place the remote control near a heater or damp place. Strong impact
  on remote controller may cause operation failure.
+ The signal from the remote control may be subjected to interference from
 sunlight or other strong light.

Mounting Device

This describes how to set up the LCD-TV. Select the most appropriate procedure depending on your requirements.

If you encounter any problem when setting up the LCD-TV, please contact your local LCD-TV distributor.

Installing on the Wall

You can install the LCD-TV on the wall using a mounting bracket (sold separately). To reduce the risk of damage from falling, this LCD-TV should be secured at all times. (The LCD TV in the picture may not look exactly like yours.)
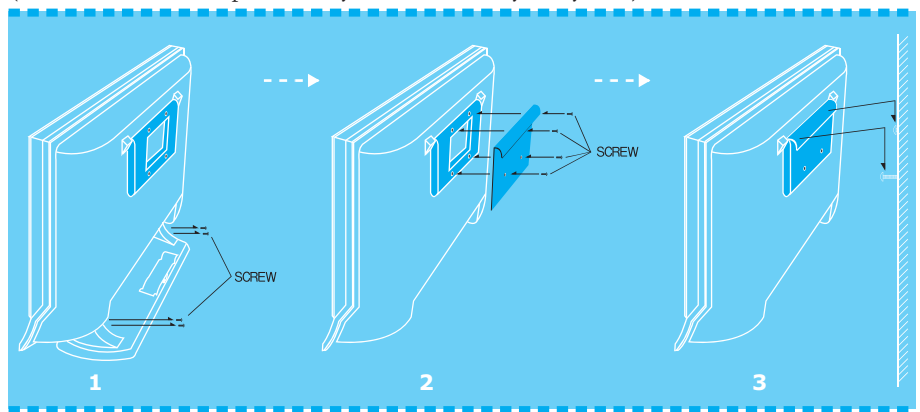

1. Before you install, separate the LCD-TV and stand-base.

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

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

4. Tighten up a safety-screw.

Note :
_ Do not install the set on a weak surface such as plaster or foam board.
_ Be at enough distance to open CI door between the LCD-TV and the wall
   when installing on the wall. If the LCD-TV is not at proper distance from the
   wall, the CI door may be not opened enough.

Convenient Movement

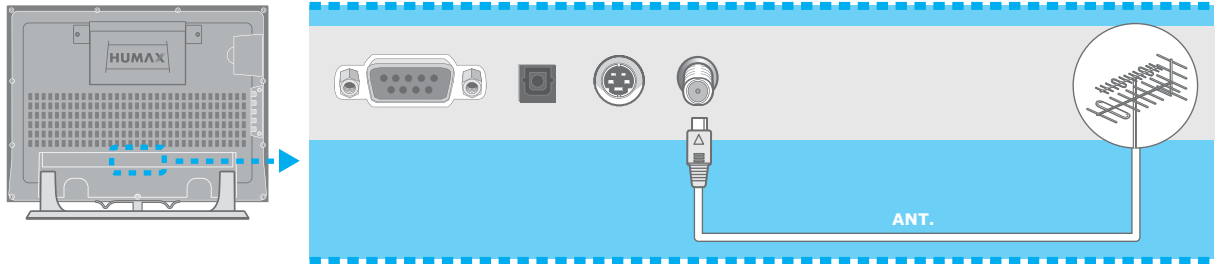You can move your LCD TV to other place conveniently.
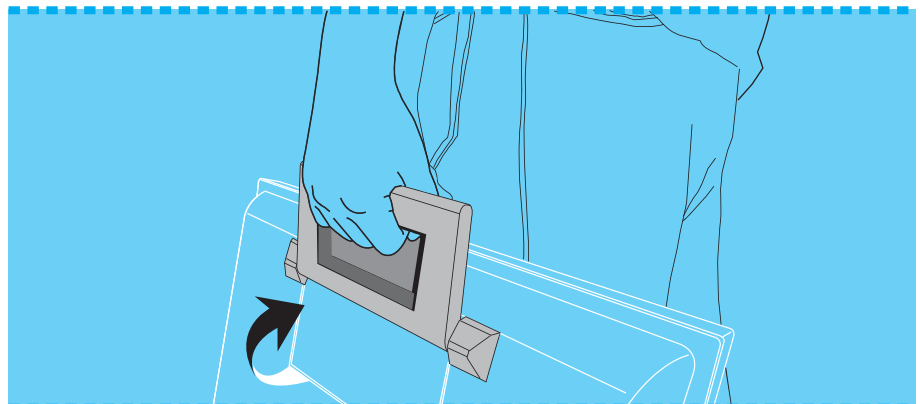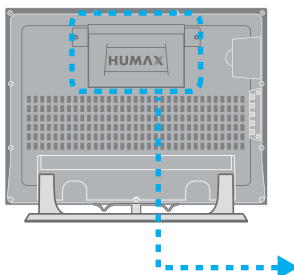
Connecting the External Equipment

You can connect additional equipment, such as **VCRs, DVD, etc.** to your set.
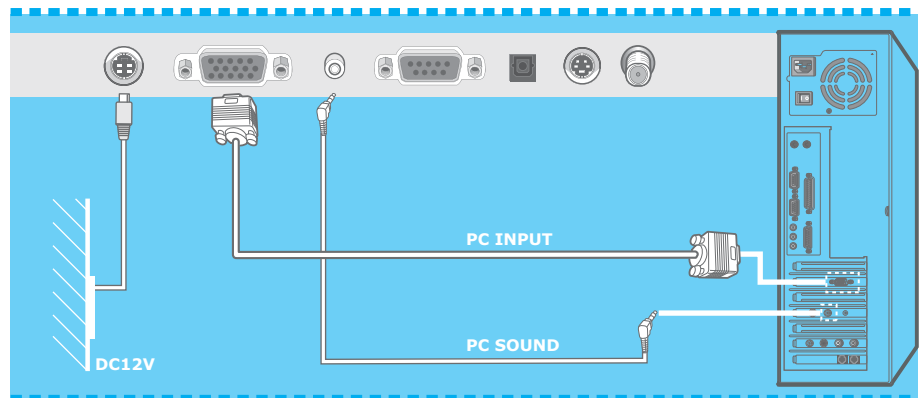Examples are shown below.

Connecting the Aerial

To view television channels correctly, a signal must be received by the set
from one of following sources :
+ An outdoor aerial
+ An indoor aerial (not recommended)

1. Connect the aerial to the **ANTENNA IN** on the bottom of the LCD-TV.

2. Press the **TV/AV** button on the remote control.

3. Select **Analog TV** or **Digital TV**.

Connecting the PC

1. Turn off your computer and LCD-TV.

2. Connect a PC D-Sub cable between your PC and **PC INPUT** of the LCD-TV and
then fasten the screws of both sides on the cable.

3. Connect a PC Audio Cable between the Sound Output jack of the sound card
on your PC and the **PC SOUND** of the LCD-TV.

4. Connect the DC Power unit cable to the Power jack on the rear of your LCD-TV.
And connect a power cable to the DC Power unit before connecting to a power
outlet .

5. Power on the computer before turning on the LCD-TV.

Connecting the External Equipment

Connecting the External Devices

1. Connect video/audio cable as indicated in the diagram. (SCART lead supplied).

2. For optimal visual image, use **S-VIDEO** lead(cable not supplied).

3. If you wish to connect the optical **S/PDIF** terminal and Dolby Digital decoder to listen digital audio, connect as follows(cable not supplied).
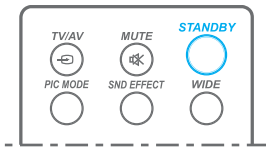

S/PDIF

AV

VCR

DVD
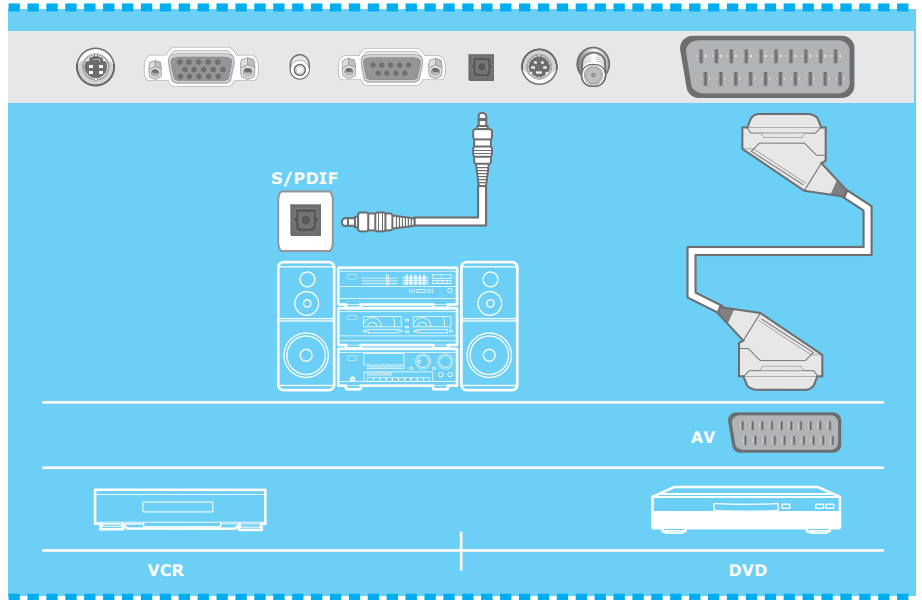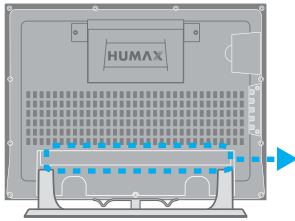
Connecting the DVD

Connect **AUDIO L/R** to **AUDIO OUT** connector of the DVD. (SCART lead supplied).
For viewing, use S-Video or Component Input (Y, P_b, P_r).
For listening, use Audio L/R.

Component Input

Green : Y
Blue : P_b
Red1 : P_r
White : AUDIO : L
Red2 : AUDIO : R

R
L

Y
P_b
P_r

S-Video

SET-TOP BOX

DVD
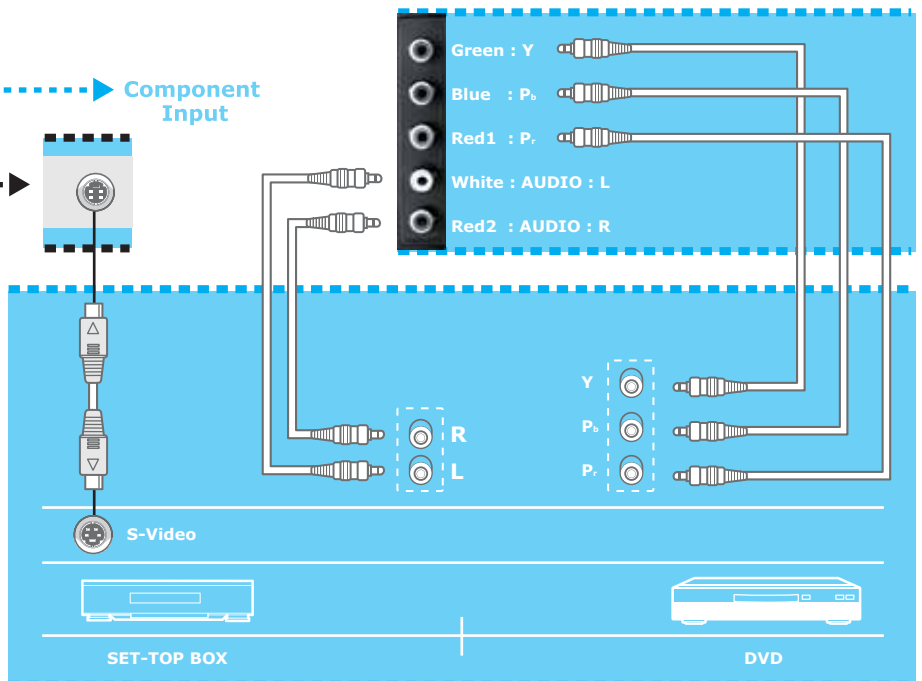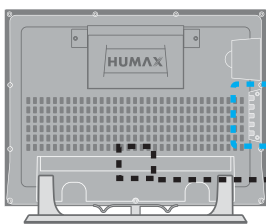
Watching TV

Powering ON/OFF

1. Connect the plug to the wall outlet.

2. If the set is in standby mode, press the **STANDBY ( )** button on the control or on the set to switch it on.

3. Press the **STANDBY ( )** button on the remote control. The set reverts to standby mode.
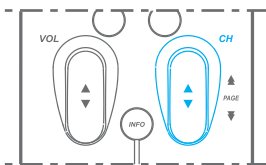
Changing the Input mode
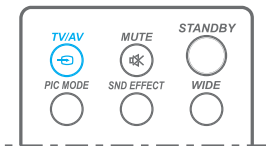
1. Press the **TV/AV ( )** button to change the input mode.

2. Select your desired mode using the ▲/▼ button, and press the **OK (OK)** button.

Volume Control
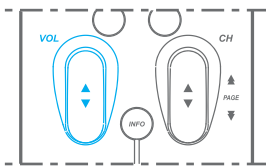
1. Press the **VOL (▲/▼)** buttons to adjust the audio volume.

2. Press the **MUTE ( )** button to mute the sound.

Selecting the Channel

1. Press the **CH (▲/▼)** or **NUMERICAL (0~9)** buttons to change the channel number.

Choosing Your Language

When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

1. Press the **MENU ( )** button.

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

3. Select **Language** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular language.

4. When you are satisfied with your choice, press the **EXIT ( )** button to return to normal viewing.
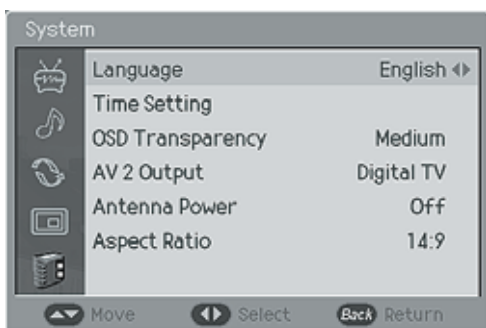
Setting Up Analogue Channels Automatically

You can scan for the frequency ranges available to you (and availability depends on your country.) Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch. It's only for analogue TV mode.

1. Press the **MENU (MENU ⃝)** button.

2. Select **Channel** using the ▲/▼ button, and press the **OK (OK)** button.

3. Select **Auto Programme** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

4. Select **System** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular system.

   BG : I : DK

5. Select **Storage From** using the ▲/▼ button, and press the ◀, ▶, or **NUMERICAL (0~9)** button. You can enter the starting number to store the scanned programme in the Auto Programme mode.

6. Select **Start Search** using the ▲/▼ button, and press the **OK (OK)** or ▶ button to start auto scanning. To stop the search before it has finished, press the **BACK (BACK ⃝)** button.

   The search will end automatically. Channels are sorted and stored in an order, then the programme originally selected is displayed.

In the digital TV mode, you can select Setup Digital Channel menu instead of Channel menu.

Setting Up Analogue Channels Manually

The Manual Programme allows you to manually tune and arrange the channels in the order you desire. You can also assign a channel name with characters to each channel number. It's only for analogue TV mode.

1. Press the **MENU (** ○MENU **)** button.

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

3. Select **Manual Programme** using the ▲/▼ button, and press the **OK (** ○OK **)** or ▶ button.

4. Select **System** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular system.

 BG : I : DK

5. Select **Band** using the ▲/▼ button, and press the ◀ or ▶ button.

 V/UHF : Cable

6. If you know the channel number to be stored, select **Channel** using the ▲/▼ button, and press the ◀, ▶, or **NUMERICAL (0~9)** button to select number. If you do knot know the channel number, select Search using the ▲/▼ button, and press the ◀ or ▶ button to start search.

7. Select **Programme No.** using the ▲/▼ button, and press the ◀, ▶, or **NUMERICAL (0~9)** button . You can assign a programme number to a channel.

8. Select **Name** using the ▲/▼ button, and press the ▶ button to change a name.

 + To select a letter (A~Z) , press the ▲/▼ button.
 + To move on the previous or next letter, press the ◀ or ▶ button.

 + To store the changing name, press the **OK (** ○OK **)** button.

9. Select **Fine Tune** using the ▲/▼ button, and press the ◀ or ▶ button to fine-tune the channel manually. If the signal is weak or distorted, you may have to fine-tune the channel manually.

10. When you are satisfied with your choice, press the **BACK (** ○BACK **)** button to store the current setting values.

Editing Channels
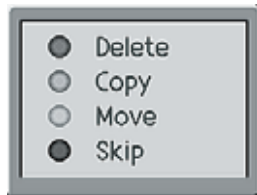
Editing Channels

This function enables you to delete, copy, move, or skip the stored channel. It's only for analogue TV mode.

1. Press the **MENU ($\bigcirc$)** button.

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

3. Select **Edit Programme** using the ▲/▼ button, and press the **OK (OK)** or ▶ button. The programme list is displayed in the main screen.

4. Select the programme name to edit with ▲/▼/◀/▶ button.

+ **Delete button : RED**   + **Copy button : GREEN**
+ **Move button : YELLOW**   + **Skip button : BLUE**

Skipping a Channel
_ Select a channel to skip with the ▲/▼/◀/▶ button.
_ Press the **BLUE** button, the channel selected will change to the blue colour.
  Therea fter these channels will be skipped when using the **CH (▲/▼)** button.
_ To return to normal status, select the skipped channel and then press again
  the **BLUE** button for 2~3 seconds

Moving a Channel
_ Select a channel to move with the ▲/▼/◀/▶ button.
_ Press the **YELLOW** button to select the channel you wish to move.
  Use the ▲/▼/◀/▶ button to move the channel to the desired position,then
  press the **YELLOW** button again to store.

Copying a Channel
_ Select a channel to copy with the ▲/▼/◀/▶ button.
_ Press the **GREEN** button.

Deleting a Channel
_ Select a channel to delete with the ▲/▼/◀/▶ button.
_ Press the **RED** button. If you press the **RED** button again, the selected channel
  will be deleted.

**While editing the programme, you can switch to the channel you select.**

Basic Functions

Listing Channels

You can watch the programme list while watching Analogue TV.

1. Press the **LIST (LIST)** button.
2. Select a channel using the ▲/▼ button, and press the **OK (OK)** button to switch to the selected channel. You can move to the next or previous page using the **PAGE (▲/▼)** button.

Using the OK button
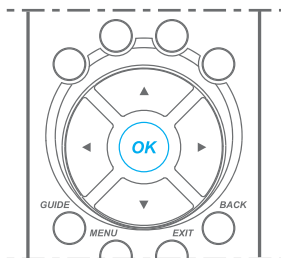
When you press the **OK (OK)** button, the information of the channel appears ;

_ Channel number, channel name, and current time in the Analog TV mode
_ External input mode and current time in the AV input mode.
_ The information of Main and PIP screen in the PIP mode.

**If you wish to disappear the information, press the OK (OK) button.
In the audio mode, the information provided.**

Using the Audio button
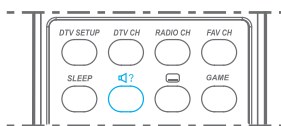
You can hear the sound with various modes. (Mono, Stereo, Dual mode)
Press the **SOUNDTRACK / AUDIO ( )** button repeatedly to switch into other mode. If it is not switched, it's the channel that various modes are not supplied.
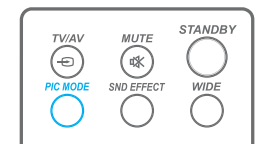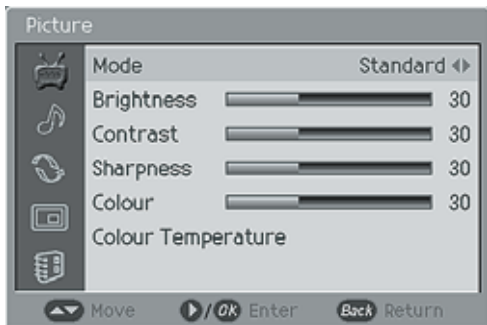
Setting the Sleep Time
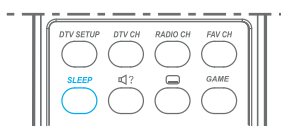
You can select a time for the TV to turn off automatically.
Press the **SLEEP** button repeatedly until the desired time appears.
The number changes from Off, 10, 20, 30, 60, 90, 120, 180, 240.
When the selected time is out, the TV will turn off automatically.

To cancel the sleep time, press the **SLEEP** button repeatedly and select **---**(**Sleep Off**).

Changing the Picture

Mode

You can select the picture type you prefer.

1. Press the **MENU (MENU)** button.
2. Select **Picture** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **Mode** using the ▲/▼ button and press the ◀ or ▶button to select a
particular thing. If you select **User**, you can control the value
manually.
Standard : Dynamic : Movie : Mild : User
4. On the Standard, Dynamic, Movie, or Mild, the value of the Brightness,
Contrast, Sharpness and Colour change automatically. You can also set these
options simply by pressing the **PIC MODE** (Picture Mode) button.

| Item	Setting Change			
Brightness	Darker	◀ 0 ~ 100 ▶		Brighter
Contrast	Less	◀ 0 ~ 100 ▶		More
Sharpness	Less sharp	◀ 0 ~ 100 ▶		Shaper
Colour	Lower	◀ 0 ~ 100 ▶		Higher

**Note : If you change the value of the Brightness, Contrast, Sharpness
and Colour, he User is selected automatically.**

Colour Temperature

You can select the picture colour tone you prefer.

1. Press the **MENU (MENU)** button.
2. Select **Picture** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **Colour Temperature** using the ▲/▼ button and press the **OK (OK)**
or ▶ button.
4. Select **Colour Temp** using the ▲/▼button, and press the ◀ or ▶ button to
select a particular thing. If you select **User**, you can control the value manually.
Normal : Cool : Warm : User
5. On the Normal, Cool, or Warm, the value of the R/G/B Gain change
automatically.

**Note : If you change the value of the R/G/B Gain, the User is selected
automatically.**
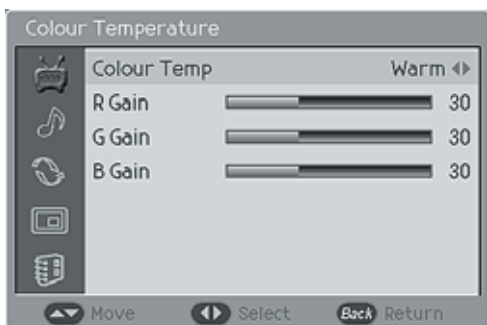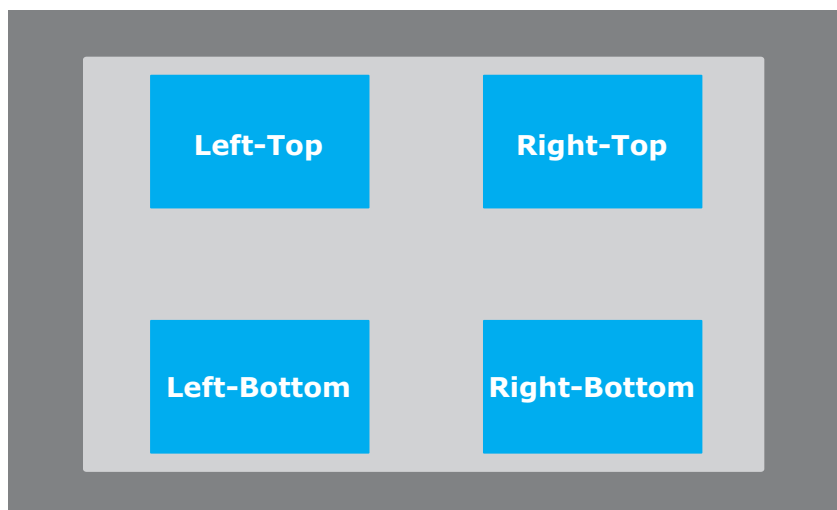
Setting the PIP/TWIN
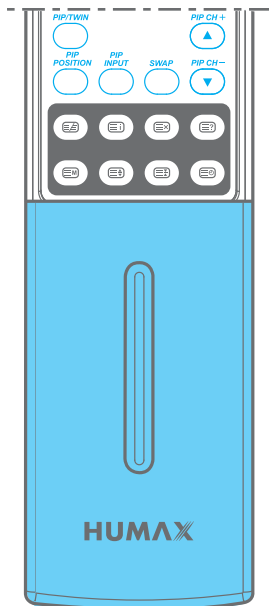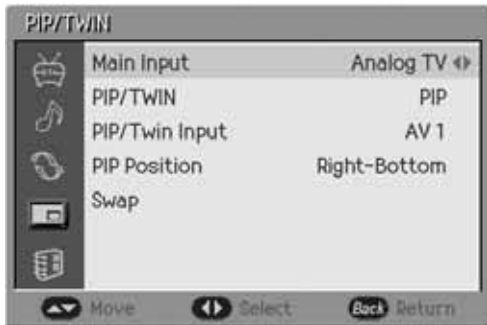
PIP/TWIN

With PIP, Picture in Picture, you can call up a small screen within the main screen. This enables you to watch two different input sources at the same time. In this way, you can watch TV programme or monitor the video input from any connected devices while watching TV or other video input.

1. Press the **MENU (^{MENU}◯)** button.

2. Select **PIP/TWIN** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

3. Select **PIP/TWIN** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular thing.

    _ Off   **: Switch PIP mode off**.
    _ PIP (Picture In Picture) **: Switch PIP mode on**.
    _ TWIN 1, TWIN 2   **: Switch two Twin screen modes on**.
      (Twin screen 1, Twin screen 2)

4. Select **Main Input** or **PIP/TWIN Input** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular thing.
    Digital TV : Analog TV : AV1 : AV2 : S-Video : Component : RGB

Note : You can only select different inputs between Main Input and PIP/TWIN Input.

5. Select **PIP Position** using the ▲/▼ button, and press the ◀ or ▶ button to move the PIP picture to another corner of the screen.

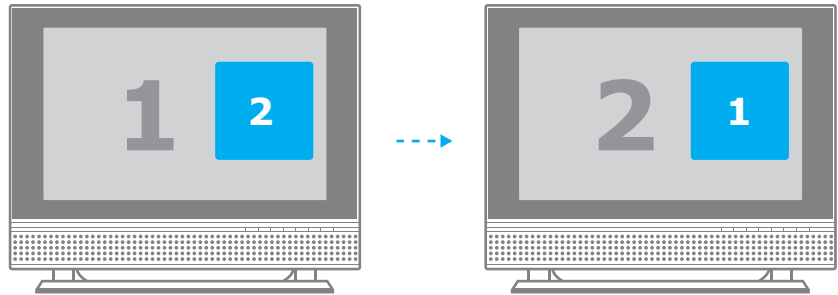| Left-Top	Right-Top
Left-Bottom	Right-Bottom

Note : If you wish to select PIP Position, you must set the PIP/TWIN mode to PIP.

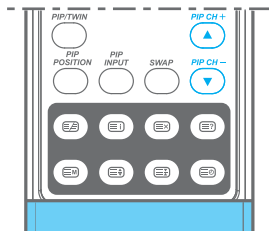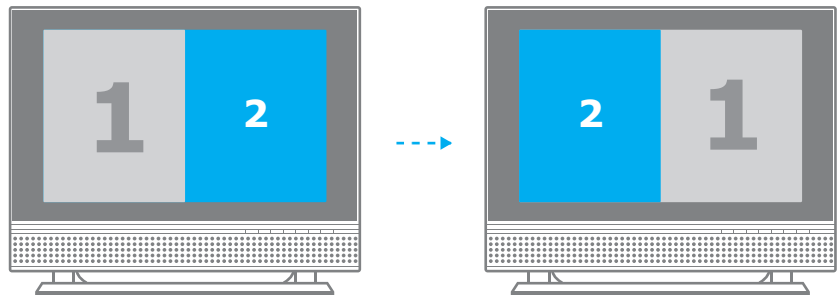**6.** Select **Swap** using the ▲/▼ button, and press the ▶ button to exchange the picture in the main screen and small screen. Not available in PC Mode.

Setting the PIP/TWIN

In case of PIP

In case of TWIN1 or TWIN2

Using the PIP buttons in the RCU

You can use the PIP buttons in the remote control.
Press the **PIP CH+ ($_{\blacktriangle}^{PIP\ CH+}$) / PIP CH- ($_{\blacktriangledown}^{PIP\ CH-}$)** button to change the TV Channels in the small screen.

PIP / TWIN Display Box

PIP/TWIN Main	Analog TV	DTV	Scart1	Scart2	S-Video	Y,Cb,Cr 480i,576i	Others	PC
Analog TV	X							
DTV		X						
Scart1			X					
Scart2				X				
S-Video					X	X	X	X
Y,Cb,Cr 480i,576i					X	X	X	X
Others					X	X	X	X
PC					X	X	X	X

You cannot watch the screen of PIP/TWIN in the same mode.

Changing the Sound

You can select the preferred sound settings which corresponds with the personal sound settings.
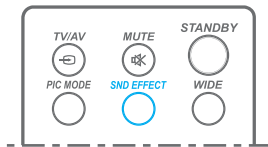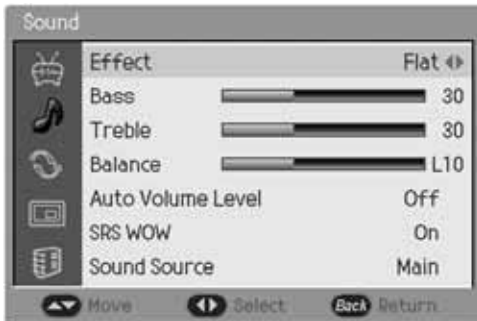
1. Press the **MENU (⬭)** button. ^{MENU}

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

Effect

3. Select **Effect** using the ▲/▼ button and press the ◀ or ▶ button to select a particular thing. If you select **User,** you can control the value manually.
Flat : Speech : Movie : Music : User

4. On the Flat, Speech, Movie, or Music, the value of the Bass, Treble, and Balance change automatically. You can also set these options simply by pressing the **SND EFFECT**(Sound Effect) button.

Item	Setting Change	
Bass	◀ 0 ▶	Adjusts low sounds
Treble	◀ 0 ▶	Adjusts high sounds
Balance	◀ 0 ▶	Adjusts left and right volumes

Note : If you change the value of the Bass, Treble, and Balance, the User is selected automatically.

Auto Volume Level

5. Select **Auto Volume Level** using the ▲/▼ button and press the ◀ or ▶ button to select **On** or **Off.**

Note : Auto Volume Level can adjust the volume every time the channel is changed.

SRS WOW

**6.** Select **SRS WOW** using the ▲/▼ button and press the ◀ or ▶ button to select **On** or **Off.**

Note : The benefits of SRS WOW sound are enormous. You can be completely enveloped in sound: just as if you were at a concert hall or cinema.

Sound Source

7. Select **Sound Source** using the ▲/▼ button and press the ◀ or ▶ button to select **Main** or **PIP/TWIN.**

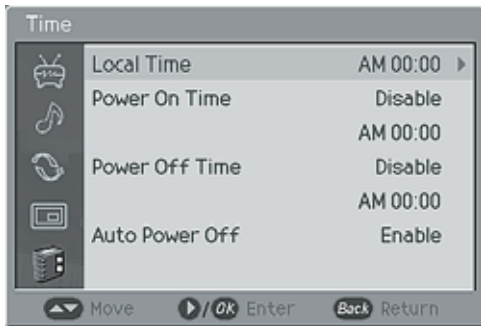**Note : You can hear the sound of small screen or main screen according to your selecting.**
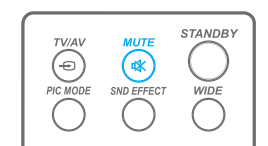
Using the Sound buttons in the RCU

You can use the Sound buttons in the remote control. Press the **MUTE (🔇)** ^{MUTE} button to mute the sound. If you press again, the sound will be reactivated.

Setting Up the System (Time Setting)

Setting the Current Time

You can set the current time. If you wish to use the Power On or Off Time, you must also set the Local Time.
Whenever you reconnect the power cord, the time will be reset to the default value.

1. Press the **MENU ( )** button.
2. Select **System** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **Time Setting** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
4. Select **Local Time** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
5. Press the ▲/▼/◀/▶ button to set the current time.
6. When you are satisfied with your choice, press the **OK (OK)** button to store the time.

Automatically Turning the TV On and Off

You can automatically switch on the channel of your choice at the time you select.
You can automatically switch off at the time you select.

1. Press the **MENU ( )** button.
2. Select **System** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **Time Setting** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
4. Select **Power On/Off Time** using the ▲/▼ button, and press the ◀ or ▶ button to select **Enable** or **Disable**.
5. In the Enable mode, Select **Timer** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
6. Press the ▲/▼/◀/▶ button to set the time.
7. When you are satisfied with your choice, press the **OK (OK)** button to store the time.
8. Select **Auto Power Off** using the ▲/▼ button, and press the ◀ or ▶ button to select **Enable** or **Disable**. In setting the Auto Power Off to Enable, the LCD TV turns off automatically if there is no signal.

Setting Up the System

Language

1. Press the **MENU ( )** button.
2. Select **System** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **Language** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular language.

OSD Transparency

1. Press the **MENU ( )** button.
2. Select **System** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **OSD Transparency** using the ▲/▼ button, and press the ◀ or ▶ button to set the transparency.
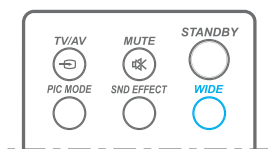   **High : Medium : Low**

AV2 Output

1. Press the **MENU ( )** button.
2. Select **System** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **AV2 Output** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular thing.
   Digital TV : Analog TV : AV1 : AV2 : S-Video

Antenna Power

1. Press the **MENU ( )** button.
2. Select **System** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **Antenna Power** using the ▲/▼ button, and press the ◀ or ▶ button to select **On** or **Off**.

Aspect Ratio

You can select the picture format you prefer.

1. Press the **MENU ( )** button.
2. Select **System** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select **Aspect Ratio** using the ▲/▼ button, and press the ◀ or ▶ button to select a particular thing.
   You can also set the **Aspect Ratio** simply by pressing the **WIDE ( )** button.
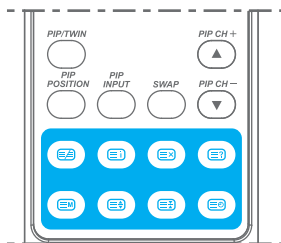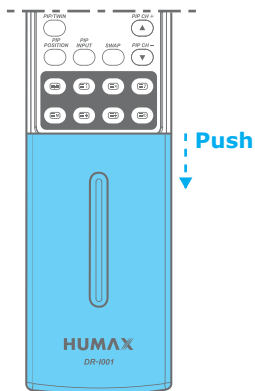
_ **Auto**   : The screen format will automatically become enlarged, allowing you to view the picture at its maximum size.

_ **4:3 , 14:9 , 16:9** : Setting for the 4:3, 14:9, or 16:9 screen format.

_ **Zoom1, Zoom2**   : Expansion to the Zoom1 or Zoom2 ratio.

Note : If you wish to change the Aspect Ratio, you must set the PIP/TWIN mode to Off.

Displaying the Teletext Information

You can display Teletext information at any time on your TV.
Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Depending on the TV channel, teletext is transmitted in different systems. The colours used in the options line correspond with the colour buttons of your remote control.

For Teletext information to be displayed correctly, channel reception must be stable, otherwise:
+ Information may be missing
+ Some pages may not be displayed

Press the **TELETEXT/MIX (⬛)** button to display teletext.
And you can control the Teletext functions using the following buttons.

Special Teletext Functions

TELETEXT/MIX	⬛	Displays teletext with TV picture.
INDEX	⬛	Return to index page.
UPDATE	⬛	Displays the TV picture on the screen whilst waiting for the new teletext page.
REVEAL	⬛	Displays the concealed information.
MODE	⬛	Displays the mode.
SIZE	⬛	Displays the text size as double size.
HOLD	⬛	Hold function during teletext display.
SUBPAGE	⬛	Search the sub-page using the sub-code.

You are in teletext mode, so only teletext functions are available.

PC Main Menu

PC INPUT
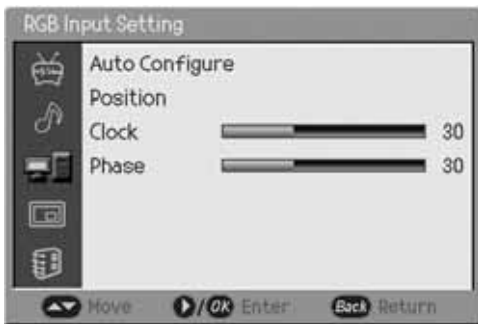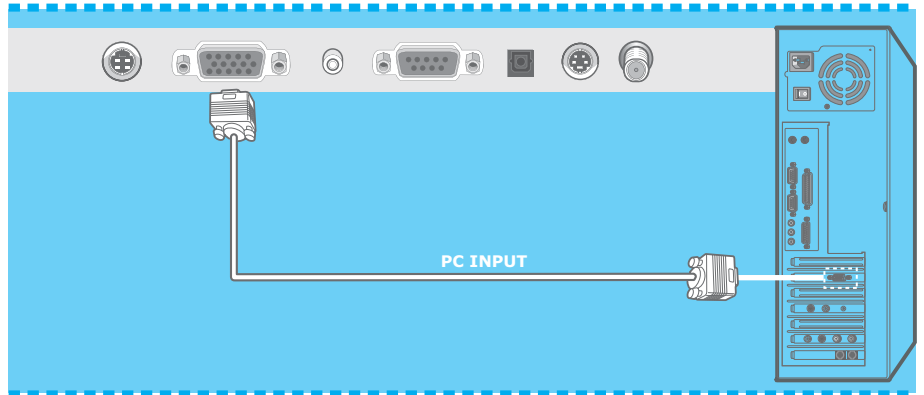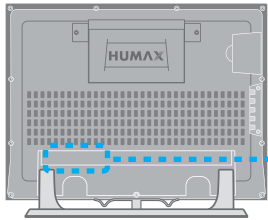
1. Press the **TV/AV (** TV/AV ⊕ **)** button to switch to the RGB.

2. Select **RGB** using the ▲/▼ button, and press the **OK (** OK **)** button.

3. Press the **MENU (** MENU **)** button.

4. Select **RGB Input Setting** using the ▲/▼ button, and press the **OK (** OK **)** or ▶ button.

5. Select the following item using the ▲/▼ button, and press the **OK (** OK **)** or ▶ button.

　_ **Auto Configure** : Automatically optimizes the status of screen.
　　　　　　　　　　　　This is recommended when connecting a new PC.
　_ **Position** 　　　　 : Move the screen to the right, left, bottom or Up.
　_ **Clock** 　　　　　 : Adjusts the horizontal size of screen by increasing or
　　　　　　　　　　　　decreasing the number of pixels.
　_ **Phase** 　　　　　 : Sets the focus of screen.

Digital TV - Contents

Please see page 4 to refer to the LCD TV contents

1.Digital TV Channel Setup

1. Digital TV Channel Setup

When you purchase your LCD-TV, you can run the Automatic Search.
It immediately performs Channel Search.(You can also run the digital TV channel setup in Default Setting.)

1. Turns on the TV in the Digital TV mode.

2. Starts the Automatic Search immediately. Please wait for finishing the Channel Search.
If you want to stop the Channel Search, select the **OK (OK)** button.
If the Channel Search is stopped or finished, press the **OK (OK)** button to same the result of the channel search.

Once the channel search has finished, you can enjoy digital television.

Note : In the Default Setting, you need a Password to enter.
 The Default Password is 0000. If you have forgotten your Password, please contact your local LCD-TV distributor.

Warning : If you exit the Automatic Search without fully completing the channel searching procedure, you may not have any digital TV channels stored. In this case, you can use the Installation Menu to configure your LCD-TV as required.

2.Basic Operation

This chapter describes functions such as switching channel, volume control, and basic features for watching programmes.

2.1 Switching Channel

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

1. Press the **CH (▲/▼)** button.
2. Enter your desired channel number using the **NUMERICAL (0~9)** button to move to the channel directly.
3. Press the **DTV CH (^{DTV CH})** or **RADIO CH (^{RADIO CH})** button to switch between TV channel and Radio channel.

Note : You can switch channel using the channel list or programme guide.

2.2 Changing the Subtitle Language

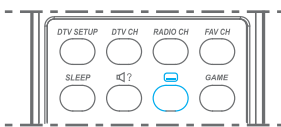If the current programme provides Subtitle information, you can select the language for the Subtitle.

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

2. Select your desired subtitle language using the ▲/▼ button, and press the **OK (OK)** button. Then the subtitle will be displayed in the selected language at the bottom of the screen.

3. Select **OFF** from the subtitle language list if you do not wish to display subtitles in the screen.

Note : You can select a default subtitle language by selecting Setup Digital Channel - Preferences - Local Setting - Subtitle Language menu.

2.3 Changing an Audio Language

If the current programme is available in multiple audio languages, you can select the language that you wish to listen in.
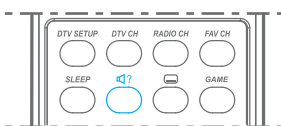
1. Press the **SOUNDTRACK ( )** button to display soundtrack list.

2. Select your desired audio language using the ▲/▼ and **OK (OK)** button to change the audio soundtrack.

3. Select Audio preference(left, right, stereo) using the ◄/► buttons.

4. Press the **EXIT (^{EXIT})** or **SOUNDTRACK ( )** button to exit the soundtrack list.

2.Basic Operation

2.4 Program Information-Information Banner (I-plate)

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

1. General Information

The General Information is displayed at the bottom of the screen as followings.

```
25  CNN International                           🕐 12:45
```

1. Channel number and channel name
2. Programme name

3. Icons

⏱️📋	Displayed only if this programme is reserved.
⑬	Represents the recommended minimum age for the current programme.
🔒	Displayed only when the channel is a locked channel.
📋	Displayed only when the channel is a scrambled channel.
▭	Displayed only when subtitle information is available.
📄	Displayed only when there is any teletext information.
▣▣Digital	Displayed only when the programme is broadcast in Dolby Digital.

4. Current time
5. Detailed programme information : displayed if detailed programme information
   is provided.

2.Basic Operation

6. Next programme Information : displayed if next programme information is provided. Press the ▶ button to display the next programme information.

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

2. Detailed Programme Information

You can see detailed information about the current programme. Press the **INFO** (INFO) button.
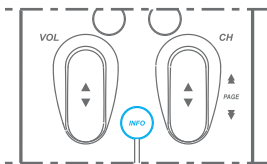
Note :
_ Press the INFO (INFO) button again to hide the information box.
_ If the detailed programme information is more than one page, use ▲/▼ button to move to the previous or next page.

2.5 MHEG Application

The MHEG application makes possible not only access to the Internet and exchange e-mail through TV but also put the receiver directly into conventional television state.
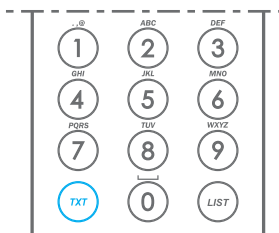
1. Press the **TXT (** TXT **)** button or the key which the data programme help you to press.
2. Select your desired application using the button, and press the **OK (** OK **)** or ▶ button.

Note : Please refer to the detailed information of each MHEG application if you operate the MHEG application.

3. DTV - Channel List

3.1 Displaying and Switching Channel List

You can display channel list using **LIST ((LIST))** button and switch to other channels on the channel list.

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

2. Select your desired channel using the ▲/▼ button and press the **OK ((OK))** button to change the channel.

3. Enter the channel number directly using **NUMERICAL (0~9)** button to move cursor onto your desired channel. And then press the **OK ((OK))** button to change to the selected channel.
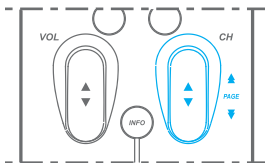
Note:
_ **Within the channel list, press the PAGE (▲ / ▼) buttons to move on page-by-page basis.**
_ **Whenever you press the DTV CH ((DTV CH)) or RADIO CH ((RADIO CH)) button while the channel list is displayed, the channel list will be switched between the TV and Radio channel list.**

3.2 Editing Channels

You can edit all channels or each channel by channel list group.

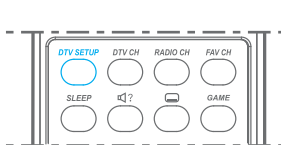**1.** Press the **DTV SETUP ((DTV SETUP))** button.

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

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

4. You will be prompted to enter your password. Enter your password using **NUMERICAL (0~9)** buttons.
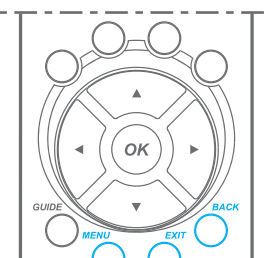
Note :
_ **Press the BACK ((BACK)) or ◀ button to save the changes and return to the previous menu, press the EXIT ((EXIT)) button to exit the menu screen.**
_ **You can easily navigate all menus using the assigned number for each menu. Press the MENU ((MENU)) button then select Setup Digital Channel and then the numbers 2,1 to select Edit Channel Lists menu.**

3. DTV - Channel List

1. Select a Channel Group

You can select the channel list group to edit TV or Radio.

1. Press the **OK (** OK **)** or ▶ button in Group to display channel list group.

2. Select your desired channel list group using the ▲/▼ button, and press the **OK (** OK **)** button.

Edit Channel Lists
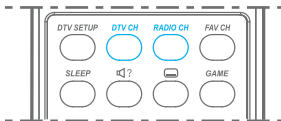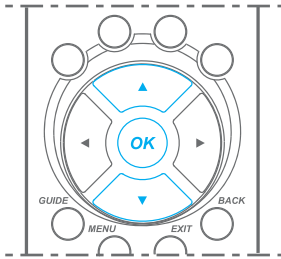
Note :
_ **Press the** DTV CH **(** DTV CH **) or** RADIO CH **(** RADIO CH **) button to move to TV or RADIO channel list directly.**
_ **For editing Favourite channel list, move to Setup Digital Channel - Edit Channels - Edit Favourite Channels menu.**

2. Delete Channels

You can delete one or more channels.

1. Move the cursor to the channel list using the ◀/▶ button.

2. Select your desired channel, and then press the **OK (** OK **)** button. You can select multiple channels.

3. Select **Delete** in the right using the ▶ button, and press the **OK (** OK **)** button.
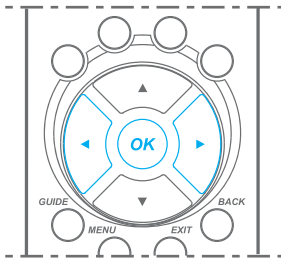
Edit Channel Lists

3. DTV - Channel List

3. Lock/Unlock Channels

You can lock or unlock one or more channels.

1. Move the cursor to the channel list using the ◀/▶ button.
2. Select your desired channel, and then press the **OK (** OK **)** button. You can select multiple channels.
3. Select **Lock** in the right using the ▶ button, and press the **OK (** OK **)** button.

4. Select/Unselect All Channels

You can select/unselect all channels at a time.

1. Select **Select All** in the right and press the **OK (** OK **)** button to select all channels.

2. Select **Unselect All** in the right and press the **OK (** OK **)** button to unselect all the selected channels.

3. DTV - Channel List

3.3 Editing Favourite Channels

You can edit Favourite channel or Favourite channel list.

1. Press the **DTV SETUP (** ^{DTV SETUP} ○ **)** button.

2. Select **Edit Channels** using the ▲/▼ button, and press the **OK (** OK **)** button.

3. Select **Edit Favourite Channels** using the ▲/▼ button, and press the **OK (** OK **)** or ▶ button.

4. Select a channel using the ▲/▼ button, and press the **OK (** OK **)** button. The selected channel is moved into the **Favourite**.

5. Move between TV and Favourite using the ◀/▶ button. In this way, you can return the channel.
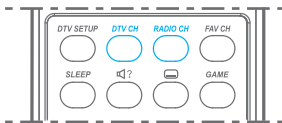
Note :
_ **Press the DTV CH (** ^{DTV CH} ○ **) or RADIO CH (** ^{RADIO CH} ○ **) button to move to TV or RADIO channel list directly.**
_ **Press the BACK (** ^{BACK} ○ **) or ◀ button to save the changes and return to the previous menu. Press the EXIT (** ^{EXIT} ○ **) button to exit the Menu screen.**

4.DTV - Programme Guide

The Programme Guide displays programme information about each channel, based on the date and time. You can also schedule your recording using the information given.

Note : Press the GUIDE (⌒GUIDE **) button to exit the Guide screen.**

4.1 Viewing Programme Guide Information

You can view programme information for all channels.
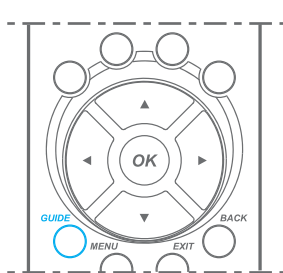
1. Press the **GUIDE (** ⌒GUIDE **)** button.

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

3. Move to other desired channel using ▲/▼ button. If there are multiple channels, use **PAGE (▲ / ▼)** button to move to channels by page. Also, you can enter your desired channel number using the **NUMERICAL (0~9)** buttons on the remote control to move to the channel directly.

4. Select your desired programme, and press the **OK (** OK **)** button. Then you can watch the programme if it is on air, or you can reserve it if it is the future programme.

5. Press the **INFO (** INFO **)** button in the selected programme to view **Extended Information** for the selected programme.

1. Viewing Guide Information by Another Group

You can view programme information for desired channel list by groups.

1. Press the **GUIDE (** ⌒GUIDE **)** button.

2. Press the **RED** button to change the channel list group or press the **DTV CH (DTV CH), RADIO CH (RADIO CH)**, or **FAV CH (FAV CH)** buttons.

3. The Programme Guide for selected channel list is displayed.
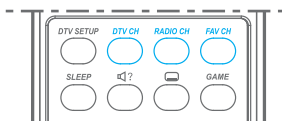
Note :
_ Press the DTV CH (DTV CH) or RADIO CH (RADIO CH) button to move to TV or RADIO channel list directly.

4. DTV - Programme Guide

2. Viewing Programme Information Using Time Bar

You can quickly search for your desired time slot using the Time bar.
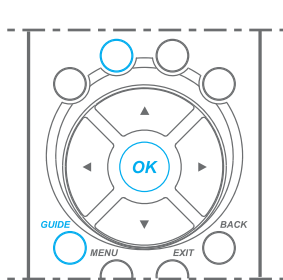
1. Press the **GUIDE (** ⊙ **)** button.
2. Press the **GREEN** button to display the Time Bar.
3. Select the each button using the ◀/▶ button, and press the **OK (** OK **)** button to move as your desired amount of time. If you press the button repeatedly, the same operation is repeated.
4. Each button functions as follows.
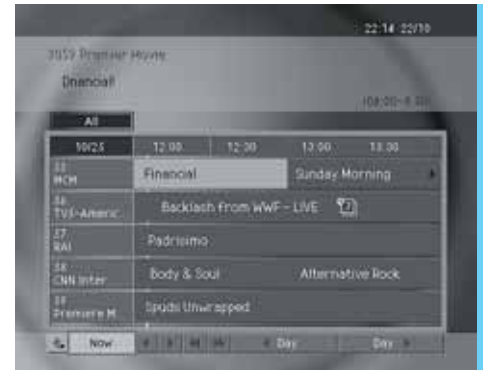
Now : Moves to the current programme where the cursor is located.
◀ : Moves to the previous programme or 30 minutes before.
▶ : Moves to the next programme or 30 minutes after.
◀◀ : Moves to 2 hours before.
▶▶ : Moves to 2 hours after.
◀Day : Moves to one day before.
Day▶ : Moves to one day after.

5. Select ⇖ and press the **OK (** OK **)** button to exit the Time Bar.

Note : The guide provides programme information from the previous day to the next 7 days.

4.2 Finding a Programme

You can find your desired programme by programme name or genre.

Finding a Programme by Programme Name
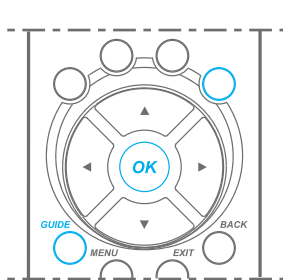
1. Press the **GUIDE (** ⊙ **)** button.
2. Press the **BLUE** button to display Find screen.
3. Enter the programme name directly using the keyboard displayed on the screen.
4. When completing entering programme name, select the **Find**, and press the **OK (** OK **)** button.

Note :
_ Select ▲/▼/◀/▶ button and then press OK (OK **) button to enter the programme name on the keyboard screen.**
_ If you select Previous or Next on the Keyboard displayed on the screen and press OK (OK **) button, the keyboard layout is switched.**

4. DTV - Programme Guide

Finding a Programme by Programme Genre
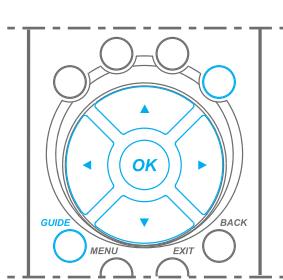
1. Press the **GUIDE (** ◯ _GUIDE_ **)** button.

2. Press the **BLUE** button to display Genre screen.

3. Select **By Genre** and press the **OK (OK)** button to search programme by genre.

4. Select your desired genre using ▲/▼/◄/► button and press the **OK (OK)** button.

5. If you select your desired programme from the **Found Programme List** screen and press the **OK (OK)** button, you can watch the programme if it is on air.

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

4.3 Adding Reservations by Guide

You can automatically reserve to watch your desired programme.

1. Select the scheduled programme and pressing the **OK (OK)** button.

2. Select **Yes** using button and press the **OK (OK)** button.

3. When reservation has been completed, **(** ⌐I⌐ **)** the is displayed on the reserved programme.

When you cancel the reservation

1. Select the reserved programme and press the **OK (OK)** button.
The message will be displayed.

2. Select **Yes** and press the **OK (OK)** button to cancel the reservation.

Note : You can look into reservation schedule using YELLOW button in guide.

5. DTV - Setting Preferences

You can set censorship classification, password, time and other options to enhanceyour viewing pleasure.
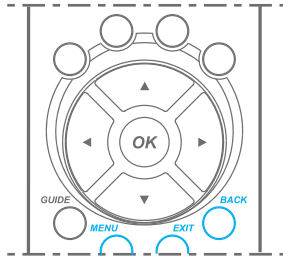
Note :
_ Press the **BACK (◯)** or **◀** button to save the changes and return to the previous menu. Press the **EXIT (◯)** button to exit the Menu screen.
_ You can easily select all menu items using the assigned numerical button for each menu.

5.1 Parental Control

You can set parental control for each programme. You can also change your password.
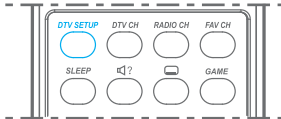
1. Press the **DTV SETUP (◯)** button.
2. Select the **Preferences** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
3. Select the **Parental Control** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
4. When prompting message is displayed to ask Password, enter the Password using the **NUMERICAL (0~9)** buttons.

1. Setting Censorship Classification

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

1. Select the **Censorship Classification** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.
2. Select your desired Age Level using the ▲/▼ button, and press the **OK (OK)** button.

View All : All programmes can be watched because there is no age limitation.
7   : Programmes are blocked under the age of 7.
12   : Programmes are blocked under the age of 12.
15   : Programmes are blocked under the age of 15.
18   : Programmes are blocked under the age of 18.
Lock All : All Programmes are blocked without considering the age level.

Note : You have to enter your password to watch the programme which is blocked by the age restriction.

5. DTV - Setting Preferences

2. Changing Password

You can change the current password into a new one.

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

2. Enter **New Password** using the **NUMERICAL (0~9)** button, and select **OK** and press **OK (OK)** button.

3. Enter the New Password again to confirm the **Verify Password**, and select **OK** and press the **OK (OK)** button.

Note : The Default Password is 0000. If you have forgotten your Password, please contact your local LCD-TV distributor.

5.2 Local Setting

You can set a Language for Audio, and Subtitles and set the current time.

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

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

3. Select **Local Setting** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

1. Setting Current Time

You can set the GMT Offset for the current time.

1. Select **GMT Offset** using the ▲/▼ button.

2. Press the **OK (OK)** or ▶ button to display **GMT list**. GMT can be changed in 30 minutes / 1 hour steps.

3. Select your GMT Offset using the ▲/▼ buttons, and press the **OK (OK)** button.

Note : The current time is set automatically whenever GMT Offset changes. The default item is Auto. If GMT Offset is Auto, the time will change to summer time (BST).

5. DTV - Setting Preferences

2. Audio/Subtitle Language

You can set the language for Audio and Subtitles. The default language is English.

1. Select **Audio / Subtitle Language** using the ▲/▼ button.
2. Press the **OK (OK)** or ▶ button to display the available Language List.
3. Select your desired language using the ▲/▼ button, and press the **OK (OK)** button.

3. Audio Priority

You can select the audio priority between language and Dolby Digital.

1. Select **Audio Priority** using the ▲/▼ button.
2. Press the **OK (OK)** or ▶ button to display either Language or Dolby Digital.
3. Select your desired option using the ▲/▼ button, and press the **OK (OK)** button.
   + Language : You can watch a programme in the selected language.
   + Dolby : Digital You can listen in Dolby Digital sound.

Push

4. Subtitle Display

You can select whether or not to display the Subtitle automatically if provided.

1. Select **Subtitle Display** using the ▲/▼ button.
2. Select your desired option using the **OK (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.

5. Subtitle Font

You can select the Subtitle font.

1. Select the **Subtitle Font** using the ▲/▼ buttons.
2. Select your desired option using the **OK (OK)** or ▶ button.
   + Variable : Uses the horizontally variable Subtitle Font.
   + Fixed : Uses the fixed Subtitle Font.
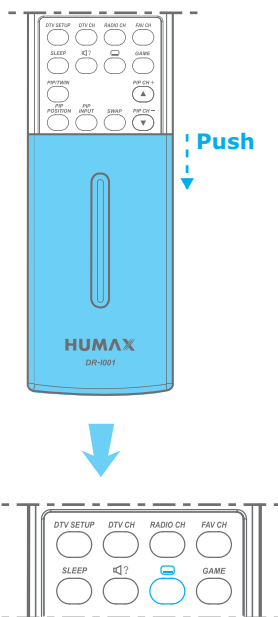
5. DTV - Setting Preferences

5.3 Miscellaneous Settings
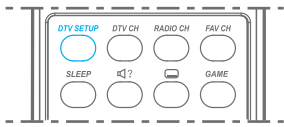
1. Press the **DTV SETUP (** ⬭ ^DTV SETUP **)** button.

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

3. Select **Miscellaneous Settings** using the ▲/▼ button, and press the **OK (** OK **)** or ▶ button.

1. i-Plate Display Time

You can set the duration during which the Information box is to be automatically displayed when you switch the channel.

1. Select **i-Plate Display Time** using the ▲/▼ button, and press the **OK (** OK **)** or ▶ button.
2. Select a value between **Disable** 1 ~ 20 seconds using the ▲/▼ button, and press the **OK (** OK **)** button.

6. DTV - Installation

6.1 Automatic Search

If your LCD-TV is connected to a suitable aerial(outdoor aerial recommended), you can automatically search channels without entering any other information.
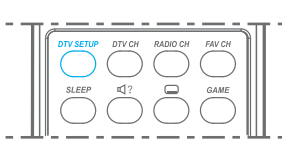
1. Press the **DTV SETUP ( )** button.

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

3. Select **Automatic Search** from Installation menu using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

Search

Please wait while the LCD-TV searches for the channels, this may take a few minutes.

1. During the automatic search procedure, the cursor is located at **Stop**. If you press the **OK (OK)** button during the search, the operation is stopped and the channels found thus far will be displayed.

2. If despite successful completion of search operation the some or all channels have been not found, press the **OK (OK)** button and perform to reset the search operation again if necessary.

3. You can delete unnecessary channels from the found channels. Select your desired channels to delete and press the **OK (OK)** button. Then select **Delete** and press the **OK (OK)** button. To delete all channels, select **Select All to** select all channels, select **Delete**, and press the **OK (OK)** button.

4. When completing Channel Search and deleting unnecessary channels, select **Save** to save the changes.

6. DTV - Installation

6.2 Manual Search

You can search channels manually by searching parameters, if you know the multiplex-parameters(check with your local broadcaster).
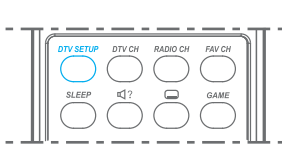
1. Press the **DTV SETUP ( ) ** button.

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

3. Select **Manual Search** from Installation menu using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

4. Select **Channel, Frequency, Mode, Guard Interval, or Network Search** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

1. Channel Number

Enter your desired frequency channel number to search. When entering the frequency channel number, the appropriate frequency value is automatically displayed in **Frequency**. Select one of channel using the ▲/▼ button, press the **OK (OK)** button.

2. Frequency

Enter the your desired frequency to search directly. When entering the frequency, the appropriate channel for the entered frequency is automatically displayed in **Channel**. Enter frequency using the **NUMERICAL (0~9)** button and press **OK (OK)** button.

3. Mode

Required for Channel Search. If you don't know the value, please select **Auto**. Select among **Auto, 2k** and **8k** using the ▲/▼ button, and press the **OK (OK)** button.

4. Guard Interval

Required for Channel Search. If you don't know the value, please select **Auto**. Select one option among **Auto, 1/4,1/8,1/16** and **1/32** using the ▲/▼ button, and press the **OK (OK)** button.

5. Network Search

If specified frequency channel information and other channel information are provided together, the channel, which belongs to other frequency channel, is also searched. Select one option between **Enable** and **Disable** using the ▶ button.

6. DTV - Installation

6.3 Default Setting

Default Setting restores the LCD-TV to the default settings.

Warning : Please Note that once you perform Default Setting, all data such as Aerial Setting information Channel List, and User Configured data are deleted.

To perform Factory Default:
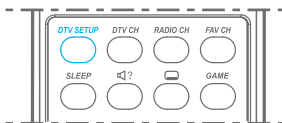
1. Press the **DTV SETUP ( )** button.

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

3. Enter **Password** using the **NUMERICAL (0~9)** button.

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

5. Select **Yes** and press the **OK (OK)** button to restore all setting to Factory Default. Select **No** and press the **OK (OK)** or **BACK ( )** button to return to the previous menu.

6. Confirm again to start loading default setting. Enter **Password** using the **NUMERICAL (0~9)** buttons to confirm that you wish to restore the default settings.

7. When default setting is completed, Installation Wizard is automatically displayed, which helps Channel Search. For detailed information about Installation Wizard, refer to **Chapter 1.**
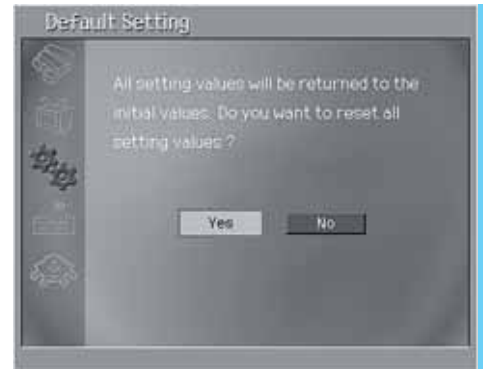
Note : In the Default Setting, you need a Password to enter. The Default Password is 0000. If you have forgotten your Password, please contact your local LCD-TV distributor.

7. DTV - Software Upgrade

In order to maintain proper performance of this LCD-TV, it is essential to have the most up-to-date software. The latest news and release of software versions may be found at the HUMAX website . **http://www.humaxdigital.com.**
It is recommended that you periodically check for the availability of software update.

7.1 OTA (Over the Air)

OTA, an abbreviation of **Over.the-Air,** means that downloads 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 supplied inside the LCD TV.

Caution : Please note that if you don't have the official loader software, the equipment may not function correctly after a software update.

2. The manufacturer decides to release a software download via a designated aerial system.
3. The equipment must be **tuned** properly following the guidelines within this manual.
4. Update the software when the quality of the receiving signal strength is high. In poor weather conditions where the quality of receiving signal is not high, please perform the software update later.

Caution :
_ **Please be careful to keep the power on and the power cord plugged in during software update. Do not power off during a software update, as this may harm the operation of you LCD-TV.**

_ **Please be careful not to pull out the aerial (co-axial Cable) during software update. The update may be interrupted and the LCD-TV may not work.**

Note :
_ **Other functions of the LCD-TV will not work at all during software update.**

_ **Scheduling operation will not work during software update.**

7. DTV - Software Upgrade

1. If new software is found when powering on

1. A message will be displayed to notify that new software is found.

2. Select **Yes** and press the **OK (OK)** button to update the software.

3. Starts downloading new software. Please wait until the updated is completed.

4. When completing the software update, the equipment is automatically powered off and on again.
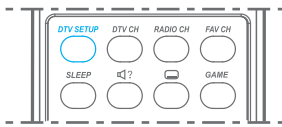
2. If updating software from Menu

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

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

3. Select **Software update** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

Automatic Update

You can set the LCD-TV to find HUMAX software updates and update software automatically.

1. Select **Automatic Update** using the ▲/▼ button, and press the **OK (OK)** or ▶ button. Automatically search for new software.

2. When detecting updated software, the following result is displayed. If new software is not found by **Automatic Update**, use **Manual Update**.

3. Select **Yes** and press the **OK (OK)** button to start updating. Select **No** and press the **OK (OK)** button to return to the previous menu without updating. Select **Later** and press the **OK (OK)** button to update later. That means the update menu displays as soon as you turn on the LCD-TV next time.

4. Performes Software Update. Please wait until it is completed.

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

7. DTV - Software Upgrade

Manual Update

You can perform Manual Update only if you know the multiplex information of the software update correctly.

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

2. Select the channel number which provides updated software. You can also enter the frequency instead of channel number in which updated software is provided.

3. Select **Mode.** If the information is not known, then **Auto** can be selected.

4. Select **Guard Interval.** If the information is not known, then **Auto** can be selected.

Note : How to set parameters in **Manual Update** is the same as how to set parameters in **Manual Search. Refer to** Manual Search.

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5. Select **Search** and Press the **OK** (OK) button to search software.

6. It will display whether or not New Software exist. If new software does not exist, press the **OK (** OK **)** button to return to the **Manual Update** Menu.

7. Select **Yes** and press the **OK (** OK **)** button to start updating. Select **No** and press the **OK (** OK **)** button to return to the previous menu. Select **Later** and press the **OK (** OK **)** button to update later.
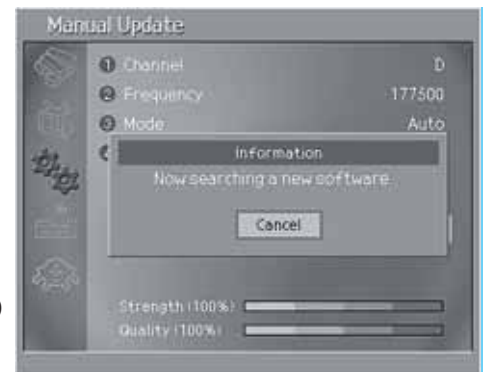
8. Performs Software Update. Please wait until it is completed.

9. When completing the software update, the LCD-TV is automatically powered off and on again.

7. DTV - Software Upgrade

7.2 Software Update from PC

You can connect your LCD-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 a PC to this LCD-TV.

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

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

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

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

5. Reconnect the power cable of the LCD-TV and press the **STANDBY (** STANDBY **)** button to start download.

RS-232C
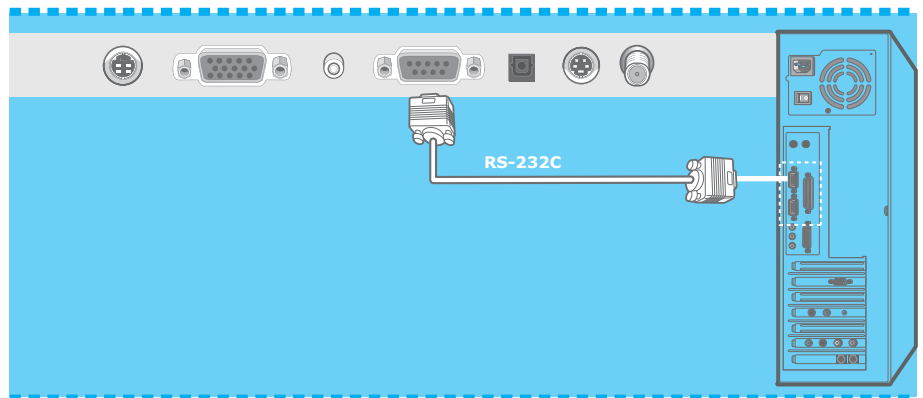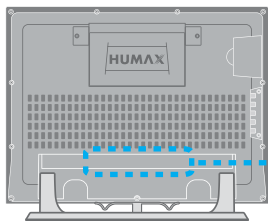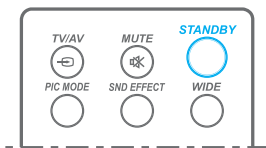
Note :
_ **You can also start download using only the STANDBY (** STANDBY **) button. Switch off the LCD-TV by pressing the STANDBY (** STANDBY **) button and press again the STANDBY (** STANDBY **) button after about 1 minute.**

8. System Information

You can view all system information, and signal detection.

1. Press the **DTV SETUP (^{DTV SETUP}⬭)** button.

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

8.1 Status

You can view the System information

1. Select **Status** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

2. Confirm the information about **Hardware version**, **Software version**, **Loader version**, **System ID**, **and Update Date**.

8.2 Signal Detection

You can view the signal strength and signal quality reception for the channel that is currently being viewed.

1. Select **Signal Detection** using the ▲/▼ button, and press the **OK (OK)** or ▶ button.

2. Display information about the aerial and multiplex, which current channel belongs to and the graphs and percentage of Signal Strength and Quality of the channel.
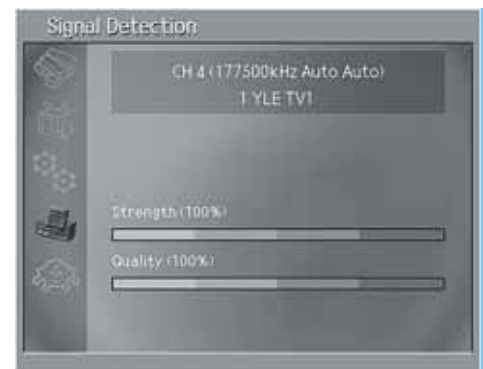
8. System Information

8.3 Common Interface

You can view the current status of the CI module.

1. Select **Common Interface** using the
▲/▼ button, and press the **OK (** OK **)**
or ▶ button.

2. Select **Slot 1**, and press the **OK**
(OK **)** or ▶ button.

3. If Common Interface is available, you
can view information about each Slot.

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

9. Game

This LCD-TV provides various games for user's entertainment.
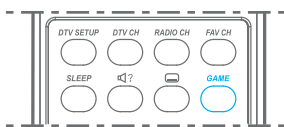
1. Press the **DTV SETUP (** DTV SETUP **)** button.

2. Select **Games** using the ▲/▼ button, and press the **OK (** OK **)** or ▶ button.

3. According to the instruction displayed on screen, you can enjoy the game using
◀/▶ and **OK (** OK **)** button. You can use the **Games** by pressing the **GAME (** GAME **)**
button.

Note : Press the EXIT (EXIT **) or BACK (** BACK **) button to exit the game.**

Menu Map

Digital TV MENU

Preferences
- Parental Control
- Local Setting
- Miscellaneous Settings

Edit Channels
- Edit Channel List
- Edit Favourite Channels

Installation
- Automatic Search
- Manual Search
- Software Update
- Default Setting

System
- Status
- Signal Detection
- Common Interface

Game

Menu Map

LCD TV Menu

Picture
- Mode
- Brightness
- Contrast
- Sharpness
- Colour
- Colour Temperature

Sound
- Effect
- Bass
- Treble
- Balance
- Auto Volume Level
- SRS WOW
- Sound Source

Analogue TV — **Channel**
- Auto Programme
- Manual Programme
- Edit Programme

Digital TV — **Setup Digital Channel**

PIP/TWIN
- Main Input
- PIP/TWIN
- PIP/TWIN Input
- PIP Position
- Swap

System
- Language
- Time Setting
- OSD Transparency
- AV2 Output
- Antenna Power

PC Main Menu

RGB Input Setting
- Auto Configure
- Position
- Clock
- Phase

Trouble Shooting

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

1. No message is displayed on the front panel or the LCD-TV has no power
+ Check the main power cable and check that it is plugged into a suitable power outlet.
+ Check whether the Power Switch is On.

2. No picture
+ Make sure that the LCD-TV is in Operation Mode.
+ Make sure that the AV Cable(SCART, SVHS, etc) is firmly connected to the LCD-TV.
+ Make sure that the aerial is correctly connected to the equipment.
+ Make sure that the aerial Setting is correct.
+ Check the brightness level of the LCD-TV.
+ Check the channel is on air.

3. Poor picture & sound quality
+ Install the aerial in a place where there is no obstacle.
+ Make sure there is no mobile phone or microwave oven near the equipment.
+ Use 75 Ω coaxial cable to connecting LCD-TV and aerial.

4. No or poor sound
+ Check the volume level of the LCD-TV.
+ Check the Mute status of the LCD-TV.
+ Press the Audio button to change the Sound Track type.

5. Remote Control does not operate
+ To control the equipment with the remote control, the remote control's top end should be pointed directly towards the receiving part of LCD-TV's remote sensor.
+ Check the battery of remote control.

Trouble Shooting

Error Message

Error message	Possible causes	What to do
No or bad signal	+ The aerial is not installed correctly.	+ 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. + The channel is for data broadcasting.	+ Confirm if the channel is currently on air. + You cannot watch the channel in the usual way.
The channel is scrambled.	+ This digital terrestrial receiver does not support the service that enables descrambling of the scrambled channels.	+ Please contact your local dealer for an appropriate CI Module and viewing card.
The audio is not available.	+ The channel has signal, but no Audio.	+ Press the **DTV / AUDIO** button to confirm if the channel has Audio.

Trouble Shooting

Error Message

Problem	Check item
No picture on screen and No sound from speakers.	+ Insert the AC power cord plug securely in AC power outlet. + Make sure the remote control is not in the standby mode. (The POWER/Standby indicator is Orange colour.) + Turn on the MAIN POWER button on the bottom of the display.
No picture / No picture from AV terminal.	+ Check the brightness setting of the display. + Lamp may have malfunctioned. + Check the cable from the VIDEO INPUT terminal.
Picture is displayed, But no sound from the Speakers.	+ Check the sound setting. + Make sure the sound is not muted. + Make sure headphones are not connected. + Check the setting of AV OUTPUT terminal.
Picture is too light.	+ Check the COLOUR and CONTRAST settings.
Picture is too dark.	+ Make sure the BRIGHTNESS setting is not set too low.
Remote controller does not work.	+ Change the batteries. + Make sure the LCD-TV remote sensor is not facing a strong light source.
The picture is not sharp. The picture moves.	+ The reception may be weak. + The quality of the broadcast may also be poor. + Make sure the aerial is facing the right direction. + Make sure the outside aerial is not disconnected.
The picture is double or tripled.	+ Make sure the antenna is facing the right direction. + The signal may be reflected from mountains or buildings.
The picture is spotted.	+ There may be interference from cars, trains, high voltage lines, neon lights, etc. + There may be interference between the aerial cable and power cable. + Try positioning them further apart.
There are strips on the screen or colours fade.	+ Is the unit receiving interference from other devices ? + Transmission antennas of radio broadcasting stations and transmission antenna of amateur radios and cellular phones may also cause interference. + Use the unit as far as possible from devices that may cause possible interference.

Specification

Specification

Item		Specification
LCD Panel	**+ Type**	- Colour active matrix TFT-LCD
	+ Display Area	- 17.0" (431.8 mm)
	+ Display Colour	- 16.2 M
	+ Pixel Pitch	- 0.2895mm x 0.2895mm
	+ Max. Resolution	- 1280 x 768 pixels
	+ Interface	- LVDS Interface with 1 pixel / clock (CR $\geq$ 10)
	+ Viewing Angle	- R/L : 140 , U/D : 110
	+ Contrast Ratio	- 450:1 (Typ)
	+ Brightness	- 400cd/m² (Typ)
	+ Horizontal Frequency	- 48.4 kHz
	+ Vertical Frequency	- 60 Hz
	+ Dimension	- 404.0 (H) x 258.0 (V) x 16.2 (D) mm (Typ)
PC Monitor	**+Sync**	- Separate
	+Horizontal Frequency	- 31~61kHz
	+ Vertical Frequency	- 58~85Hz
	+ Max. Resolution	- 1024 x 768 pixels @ 75Hz
Input / Output	**+ Video Input**	- PC Analog RGB, S-Video, SCARTx2(RGB SCARTx1), TV Tuner, Component
	+ Audio Input	- PC Audio, Component (R / L), SCART1 (R / L), SCART2 (R / L)
	+ Audio Output	- S/PDIF, Speaker, Headphone
	+ Data Interface	- RS-232C (for S/W Upgrade)

		Analogue	**Digital**
TV Signal	**+ Area**	- EU	- EU (MHEG)
	+ Antenna Input	- IEC 169-2 Female	- IEC 169-2 Female
	+ Tuning System	- FS	- COFDM DVB-T
	+ Colour System	- BG, I, DK	- BG, I, DK
	+ Sound System	- Nicam, A2	- MPEG1 Layer 1/2
	+ VHF Low	- 48.25 ~ 158.00MHz	- 51MHz ~ 858MHz
	+ VHF High	- 160.00 ~ 442.00MHz	- 7/8MHz
	+ UHF	- 442.00 ~ 863.25MHz	
	+ Teletext	- Yes	- Yes

Regulation	**+ Safety**	- CE
	+ EMI	- CE
Others	**+ Power**	- 63 Watt (Max.)
	+ Speaker Output	- 5W x 2EA (Max.)
	+ Plug & Play Level	- DDC 1/2B
	+ Weight	- NET 7.5Kg / Gross 10Kg
	+ Power Supply	- DC 12V, 5.25A

Glossary

Programme Guide (Electronic Programme Guide, EPG)

A electronic program guide (EPG) is transmitted by the broadcasters.

Frequency

The number of cycles or events per one second, which is expressed in the unit of hertz.

FTA (Free- To-Air)

An unscrambled broadcast, which you can view without additional payments to a service provider.

Hi-Fi (High Fidelity)

The characteristics of audio devices that can play back all the audio frequencies, which are in the range of 16Hz ~ 20KHz, uniformly from low frequencies to high frequencies.

OSD (On Screen Display)

The function that displays the information about the monitor that the user needs or has to know on the screen directly. OSD information includes brightness, contrast, tuning, RGB adjustment, and screen size and positions (top, left, width, and height), and so on.

OTA (Over The Air)

An abbreviation of over the air, means that software can be downloaded through your aerial.

SCART

A 21-pin connector used for connection of this LCD-TV to your VCR or DVD player.

S/PDIF (Sony/Philips Digital Interface format)

Optical format for digital audio output. It outputs audio signals directly as digital audio signals without changing into analogue signals because conversion into analogue signals can degrade signal quality.

Service and Support

You can get information such as a troubleshooting guide, software upgrades and product support guide from the following web sites and call center (Hotline). Please try to contact to your local dealers first when you have any problem.

Web site and e-mail

Homepage
http://www.humaxdigital.com / **English**
http://www.humaxdigital.com / **Deutsch**
http://www.humaxarabia.com / **Arabic**

HCSA (Humax Customer Service Area)
Software Download, Information and Technical Q&A
http://www.humaxdigital.com / hcsa / **English**
http://www.humaxdigital.com /Deutsch / hcsa / **Deutsch**

E-mail (Technical Q&A)
tech-info@humax-digital.co.uk   Europe & North Africa
techinfo@humax-digital.de   Germany
callcenterME@humaxdigital.com Middle East
Webmaster@humaxdigital.com   Asia & Other area

Call Center

Humax Middle East Call Center (Dubai, UAE)
Tel: +971 (0)4 359 2323 (Open: 9:00 - 20:00 / close on Friday)
E-mail: callcenterME@humaxdigital.com
Open: Local Time in Dubai (GMT+4)
9:00 - 20:00 (Saturday - Thursday, close on Friday)
Support Language: English/Arabic

Humax Hotline (Germany)
Germany: 01805 778 870 (0,12/Min)
Other Countries: + 49 1805 778 870 (0,12/Min+ International Call Charge)
Open: Local Time in Germany (GMT+1)
8:00 - 20:00 (Monday - Friday)
8:00 - 18:00 (Saturday)
Support Language: Deutsch/English

Humax BTCI Hotline (Premiere Model)
Germany: 01805-778900 (0,12/Min)
Austria: 0900-900633 (0,33/Min)

HUMAX Hotline (Italy)
Tel : 899 100080
Fax : +39 0471 543749
E-mail : info@mediasat.com
Open : Local Time in Italy (GMT+1)
08:00~17:00 Monday to Friday
Support Language : Italian

For hardware repair, please refer to support website. (Homepage or HCSA)

HUMAX

LCD-TV
Digital and Analogue