**Thank you for purchasing this television.**
To ensure your complete understanding, please read this manual thoroughly before operation.

SPECIFICATIONS		
TV Type,	26" LCD TV	32" LCD TV
Display Resolution	1366x768	
Viewing Angle	160° (H), 150° (V)	178° (H), 178° (V)
Brightness	500 cd/m2 (Typical)	450 cd/m2 (Typical)
Display color	16.2 Million	16.7 Million
Response Time	8 msec	6 msec
Lamp life time	60,000 Hours minimum	
Colour System	PAL / SECAM. BG / I / L / L' / DK.NTSC (3.58 & 4.43) only for AV inputs	
Channel coverage	VHF – 2 -12	
	UHF 21-69	
	CATV – X ~Z+2, S1~S41	
Nominal input voltage	100-240 V~ 50/60 Hz	
Antenna input Impedance	75 Ohms unbalanced	
Power consumption	135 W	150 W
Audio output (Rated output	2 X 10 W (+/- 1W) (RMS)	
This receiver supports only free to air channels		
Accessories : Remote handset, User Guide book, Power cord		

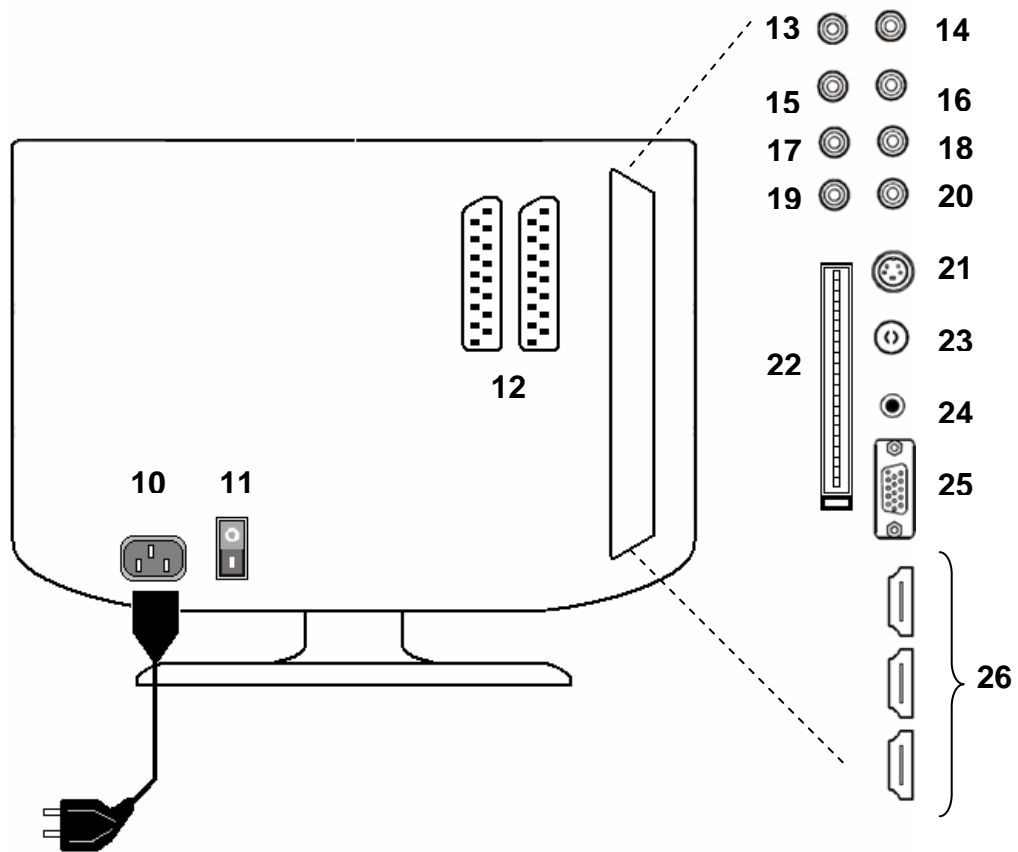**Note:**   **All specifications are subject to change without notice.**

NAMES AND FUNCTIONS OF CONTROLS- Front / Back
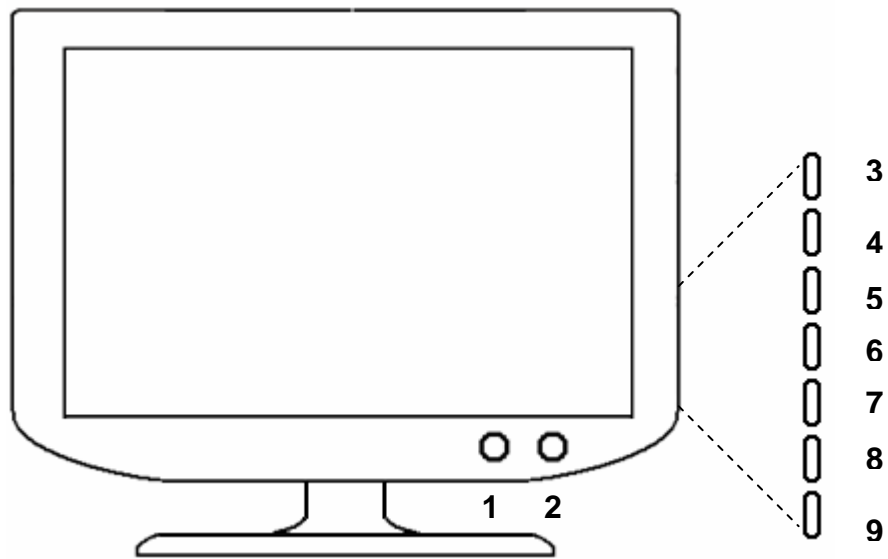
1	LED Indicator	**2**	Remote Sensor
3	Volume Up	**4**	Volume Down
5	Channel Up (CH+)	**6**	Channel Down (CH-)
7	MENU	**8**	Source
9	Stand-by / ON		

These figures are just for reference.

These figures are just for reference.

10	AC Power cord socket	**11**	Main Switch : On / Off (optional)
12	SCART 1 / 2	**13**	Audio In L2 (YPb/Pr)-left-
14	Audio In R2(YPb/Pr)-Right-	**15**	Audio In R1 (Video / S-Video)-Right-
16	Pr / Cr component component IN	**17**	Audio In L1(Video/S-Video)-left-
18	Pb / Cb Component In	**19**	VIDEO IN
20	Y Component Input	**21**	S-Video IN
22	*The CI slot (common interface) is optional*	**23**	RF Input
24	VGA Audio In	**25**	VGA IN
26	HDMI socket 1 / 2 / 3		

BATTERY INSTALLATION AND REPLACEMENT FOR REMOTE CONTROL UNIT

The remote control uses two 1.5V batteries. For battery installation and replacement follow the procedure:

1. Turn the remote control unit upside down. Press down the grip of battery compartment and slide the cover in the direction of the arrow.
2. Install two new batteries. Make sure that battery polarity matches with the "+", "-" marks inside the battery compartment or else it could damage the unit.
3. Close the battery compartment cover.
   - Do not throw away the used batteries together with other wastes
   - Throw them into the special dustbin for used batteries or special wastes
   - Contact your local responsible for further details
4. Warning: do not expose the batteries to excessive heat such as sunshine, fire or like that.
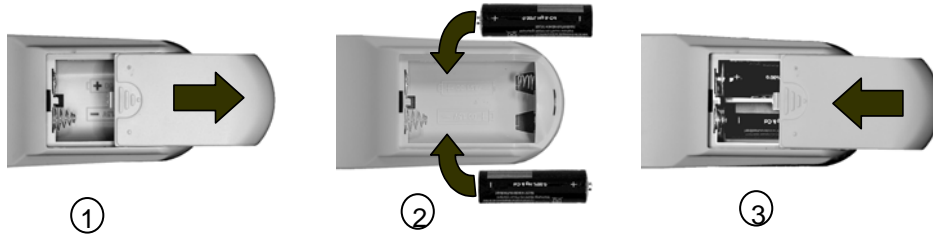
These figures are just for reference.

TELEVISION INSTALLATION

Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. For added stability, install the anti-fall device for safety purposes.

- Connect antenna or video facility.

Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
When connecting an external device, match the colour of the connection terminal to the cable.
Examples are shown below.

These figures are just for reference

iv
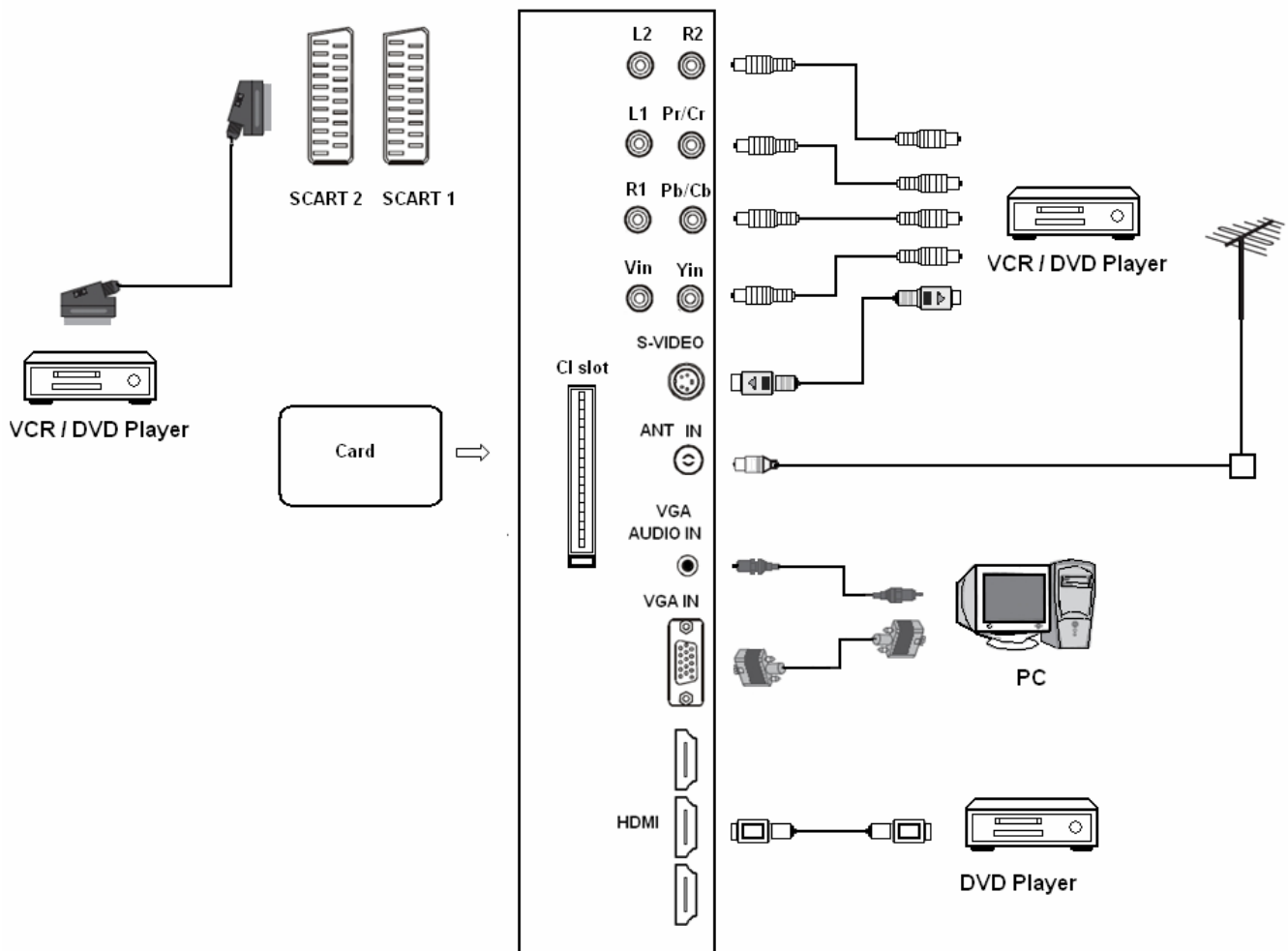
PC IN [PC] / [AUDIO]
Connect to the video and audio output jack on your PC.
COMPONENT IN
Connect component video cables (not supplied) to component connector ("PR", "PB", "Y") on the rear of your set and the other ends to corresponding component video out connectors on the DTV or DVD.
The PR, PB and Y connectors on your component devices (DTV or DVD) are sometimes labelled Y, B-Y and R-Y or Y, Cb and Cr.
Connect RCA audio cables (optional) to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the DTV or DVD.
HDMI IN 1, HDMI IN 2, HDMI IN 3
Supports connections between HDMI-connection-enabled AV devices (Set-Top Boxes, DVD players).No additional Audio connection is needed for an HDMI to HDMI connection.
ANT IN
To view television channels correctly, a signal must be received by the set from one of the following sources:
An outdoor aerial / A cable television network / A satellite network
COMMON INTERFACE SLOT
Remove the CI CARD by carefully pulling it out with your hands since dropping the CI CARD may cause damage to it.
Insert the CI-Card in the direction marked on it.
The place of the COMMON INTERFACE Slot may be different depending on its model.
S-VIDEO or VIDEO / R-AUDIO-L
Connect RCA or S-VIDEO cable (not supplied) to an appropriate external A/V device such as VCR, DVD or Camcorder.
Connect RCA audio cables (not supplied) to "R-AUDIO-L" on your set and the other ends to corresponding audio out connectors on the A/V device.
AUDIO OUT [R-AUDIO-L]
Connect RCA audio cables (not supplied) to AUDIO OUT [R-AUDIO-L] on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theatre.
**CONNECTIONS CABLE BOX/SATELLITE RECEIVER (SET-TOP BOX)**
1. Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
2. When connecting an external device, match the colour of the connection terminal to the cable.
   **Connecting a Set-Top Box via Hdmi**
Connect an HDMI Cable (Not supplied) between the HDMI IN (1, 2, or 3) jack on the TV and the HDMI jack on the
Set-Top Box.
No additional Audio connection is needed for an HDMI to HDMI connection.
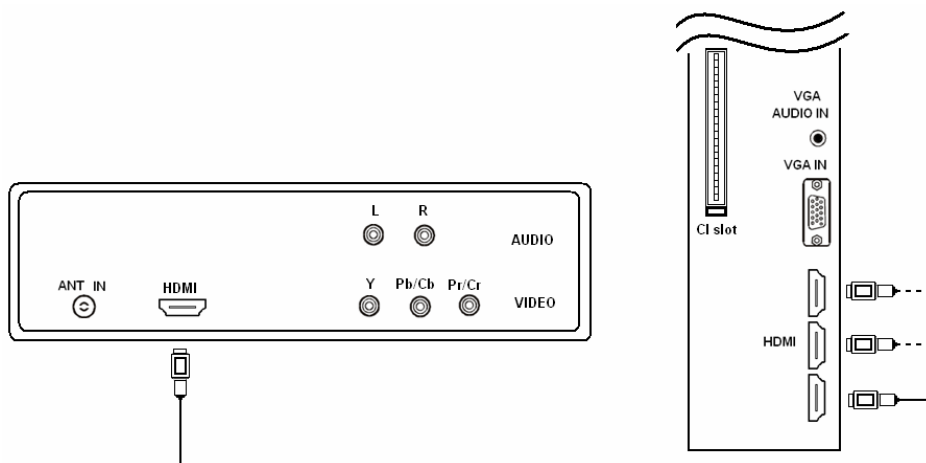
Connecting a Set-Top Box via Component Cables

1. Connect a Component Cable (Not supplied) between the COMPONENT IN [Y, P_B, P_R] jacks on the TV and the COMPONENT jacks on the Set-Top Box.
2. Connect Audio Cables (Not supplied) between the COMPONENT IN [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.
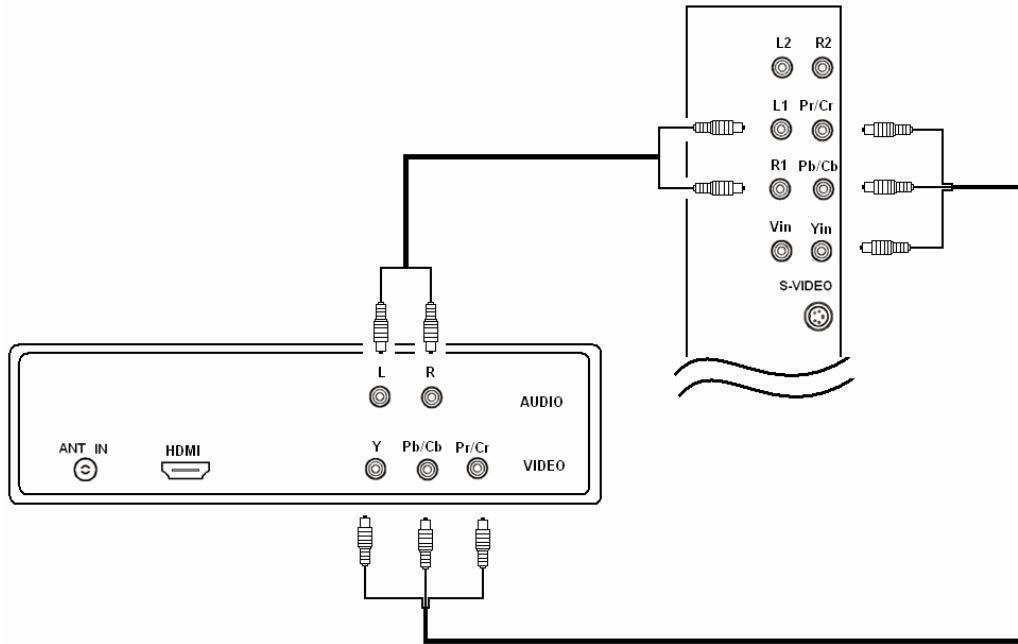
> **These figures are just for reference**
> - **Each Set-Top Box (Cable Box/Satellite receiver) has a different back panel configuration.**
> - **The product colour and shape may vary depending on the model.**

CORRECT DISPOSAL OF THIS PRODUCT (Waste Electrical & Electronic Equipment)
This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. This product should not be mixed with other commercial wastes for disposal.

 This symbol certifies that the product has been manufactured in compliance with the European Standards.

THE COMPANY RESERVES THE RIGHT TO BRING TECHNOLOGICAL, AESTHETICAL AND DIMENSIONAL CHANGES, FOR PRODUCT IMPROVEMENT OR FOR MANUFACTURING NEEDS, WITHOUT NOTICE.

INDEX

1.   WARNINGS AND SAFETY PRECAUTIONS

- You can use this TV set as a colour television or as a PC monitor.

- To be able to make use of all application options, we recommend that you should read this operating manual carefully and keep it somewhere where you have quick access to it, if required.

- Do not touch any parts in the set and do not make changes to any settings not described in this operating manual.

- The LCD screen is a high-tech product; any non-active red, blue or green spots that might appear on the screen occasionally have no effect on the performance of the screen.
 Warning :
 FOR SAFE OPERATION OF THE TV SET, THE CUSTOMER MUST MAINTAIN MINIMUM 5CM DISTANCE EACH FROM BACKSIDE AND SURROUNDING WALLS

- To prevent damage to the TV which may result in a fire or electrical shock hazard, do not expose the TV set to rain or excessive moisture.

- Do not rub or strike the Active matrix LCD with any thing hard as this may scratch, or damage the active matrix LCD permanently.

- For safety, do not place vessels or any container which contain fluids including water, on or near the TV.

- Do not insert any objects in the ventilation slots.

- Despite the high quality of the television, a random disturbances or interference my cause occasional malfunctioning, in this case the correct function of the apparatus can be restored by switching Off the TV trough the main On/Off button, or removing the main plug, then switches On again as soon as the LED light disappears.

- The LCD TV must be connected to mains socket having a protected earth connection

- The earthing must be installed by a qualified electrician. If proper earthing is not provided then there is a possibility of electrical shock.

- Do not connect earthing to water pipes, gas pipe, telephone lines lightening rods.

- Sources of Flame such as lighted candle must not be placed on the TV.
 Precautions When Displaying a Still Image:

- A still image may cause permanent damage to the TV screen.

- Do not display a still image on the LCD panel for more than 2 hours as it can cause screen image retention.

- This image retention is also known as "screen burn".

- To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen.

- Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

- Displaying still images from Video games and PC for longer than a certain period of time may

produce partial after-images.
To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

Service :

- Do not remove the back cover of the set as this can expose you to very high voltage and other hazards.

- If the set does not operate properly, unplug it and call service person.

- If the TV is broken, do not try to repair it your self. Contact an authorized dealer or repair service..

Antenna:

- For the best reception an outdoor antenna should be used.

- For proper operation / performance of the TV set it is recommended to use RF Cable (antenna cable) with Ferrite Filter at both the ends.

Location:

- Position the set so that no bright light or sunlight falls directly on to the scre en. Reflections on the screen affect the picture quality.

- Soft and indirect lighting is recommended for comfortable viewing. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat.

- Adequate ventilation is essential to prevent set failure.

- Do not place the TV set in a built-in-installation such as a bookcase or rack. Ventilation required.

- Ensure that the set is placed in a position to allow a free flow of air. Do not cover ventilation opening on the back cover. Do not place the set in an enclosure or very close to walls.

- Avoid excessively warm locations to prevent possible damages to the set. Place the television on a solid and flat surface.

Cleaning:

- For safety, remove the AC plug from the wall outlet before cleaning the set. Clean the dust on set by wiping the screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth.

- Do not use liquid cleaners or aerosol cleaners or liquid containing benzol, petroleum or a chemicals.

Power :

- Do not allow anything to rest upon or roll over the power cord, and do not place the set where the power cord is subject to damage.

- Remove the AC plug from the wall outlet when the TV set is not used for a prolonged period of time.

- In the event of thunder storms or power cuts please remove the mains power plug and the aerial plug.

- Unplug the set in case of abnormal operation i.e. smoke, odd sound or smells.

- Use the mains power cord provided for connecting TV to the mains.

Caution:

- No warranty claims are accepted for damage caused by incorrect handling. This TV Set is designed to receive and display video and audio signals and for use as PC monitor. Any other use is prohibited.

2.   BASIC OPERATIONS

Switching On and Off
1. Connect the antenna cable to the socket marked ANT IN on the back cover.
2. Plug the mains lead into an appropriate socket. Use AC 100~240V power outlet for the TV power supply
3. Press the main switch "On / Off "on the TV rear panel (optional).
4. The standby indicator lights up on your set.

5. Press the [Power] key on Remote Control Unit to turn the TV on.
   You also can press the [Stand by] key on TV set.
6. The programme that you were watching last is reselected automatically.
7. Press the numeric key (0~9) or channel up/down key on the remote control or key on your TV set.
8. If you want to shut off the TV temporary, please press the [Power] key on the remote control or on the TV. If you want to shut off the TV completely, unplug the main power socket.

Auto shut off function

- In TV or AV mode, if there is no signal input over 15 minutes, the unit will automatically switch to standby mode.
- In PC mode, if the unit is idle over 15 minutes, it will switch to standby mode.

Pre-shut off memory

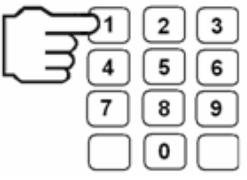- The setting and tuning of picture and sound will be saved when the TV is shut off, which will be working in the pre-shut off state when the TV is turn on again.

Storing Channels Automatically.
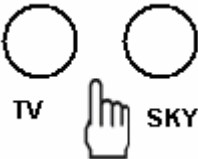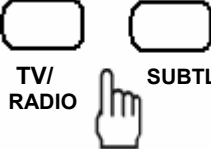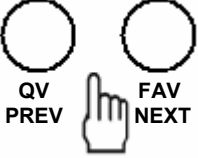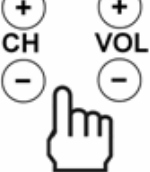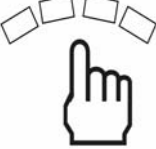
You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers.
However, you can sort numbers manually and clear any channels you do not wish to watch.
1. Press the [ATV MENU] key to display the menu.
2. Press the [▲▼] keys to select " SEARCH " menu, then press the [ENTER] key.
3. Select "Country" sub menu and select the appropriate area by pressing the [◄►] keys then press the [ENTER] key to confirm your choice.
4. Press the [▲▼] keys to select "Auto search", then press the [ENTER] key.
5. The TV will begin memorizing all of the available channels.
6. Press the [MENU] key at any time to interrupt the memorization process and return to the "TV" menu.
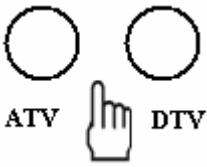
3.   NAMES AND FUNCTION OF CONTROLS ON REMOTE

	POWER Turns TV ON from STANDBY or from ON to STANDBY
	MUTE Turns sound OFF or ON. Press [MUTE] button on remote ones to mute the sound and press again to release the mute. Mute also can be released by pressing Volume Up [V+] key.
	DIRECT DIGIT NUMBER SELECTION Keys (0 to 9) Selects program number 0 – 199 directly by using direct digit keys - To select 1 digit program number press desired program number & wait for few seconds selected program number will appears on screen. - To select 2 digit or 3 digit program number press 1st, 2nd or 3rd digit within 2 sec. After pressing 1 & 2 digit respectively.

TV　SKY	**TV:** Press this key in order to have this remote control unit as TV remote. **SKY:** Press this key in order to have this remote control unit as Pay-TV remote. Remark: - After pressing the SKY key, they will be active only the keys with the colored writings and the keys MUTE, CH-/CH+ and VOL-/VOL. Now these keys will work over only Pay TV-set top box. Other keys will not work after pressing SKY key - Press TV key again to have this remote control unit as TV remote.
TV/ RADIO　SUBTL	**TV/RADIO:** This button swaps between the current TV channel and the current Radio channel. **SUBTL:** This key allows the end-user to enable or disable subtitling, and to toggle between the subtitle tracks.
AUDIO LANG.　EPG	**AUDIO LANG.:** If the current channel has several audio tracks, the **AUDIO LANG.** button allows you to choose between that audio tracks. **EPG:** The EPG supplies information, such as program lists, start and end time of all available channel. In addition, the detail information about the program is often available in the EPG.
QV PREV　FAV NEXT	*QUICK VIEW (PREV)* Selects the previously viewed channel. *FAV (NEXT)* To select the your favourite list.
CH　VOL	*CH + / CH –* Navigate Up / Down through the valid channel. *VOL + / VOL –* To increase / decrease the volume
	RED, GREEN, YELLOW, CYAN The RED, GREEN, YELLOW & CYAN keys are used for quick access to color coded pages transmitted by FAST TEXT broadcast.
ENTER	▲ ▼　　Allow you to navigate on the screen menu and adjust system setting to your preference ◄ ► **ENTER** Push this button to select the "Channel List" To execute the functionality of selected parameter.

	ATV MENU (Analogical Television ATV) Selected MENU OSD window for Analogical TV reception. Exit from MENU OSD window when menu window is displayed on screen. ***DTV MENU (Digital Television DVBT)*** Selected MENU OSD window for Digital TV reception. Exit from MENU OSD window when menu window is displayed on screen.
	SOURCE SELECTION Display OSD for source selection. Input source can be selected with [▲/▼] keys & press [►] key on remote to execute the selection. ***ZOOM*** Set the aspect Ratio for the picture. Each press of this key will enlarge the picture by following factor: Original, 4:3, ZOOM, 16:9 NOTE: Zoom key operate only when still picture or video is on screen. ***PICTURE →|P|←*** Recall default picture settings. ***SOUND →|S|←*** Recalls default sound settings. ***DISPLAY*** Displays source information with details of input signal connected. ***I / II – optional feature -*** If received signal is NICAM signal, by pressing I/II key sound will be selected as Stereo or Mono. If received signal is NICAM dual signal, sound can be selected as dual I or dual II or mono. ***PAGE +*** To fast view the next EPG program ***PAGE –*** To fast view the previous EPG program
	TEXT, INDEX, CANCEL, SIZE, MIX, SUBPG, REVEAL, HOLD Use these keys to switch on Teletext information (if current channel have this option). Use EXIT key to switch off Teletext.

4.   ATV MENU OPERATIONS

In this manual the OSD (On Screen Display) may be different from your TV because it is just an example to help the TV operation.

-   Before to start, please ensure that TV set is in TV mode .

-   **Press [SOURCE] key on remote control unit and press [▲▼] keys to select TV source and press [►] key on remote to enter into TV mode**.
    1. Press [ATV MENU] key to display OSD menu.
    2. Press [◄►] keys to select the menu required, then press [ENTER] key to select it.
    3. Press [▲▼] and [◄►] keys to select and adjust the functions.
    4. Without operations, the menu disappears after 15 seconds around.

VIDEO MENU				
Video mode	→	**User** **Dymanic** **Standard** **Milld** **Game**	→	**Contrast** **Brightness** **Color** **Tint** **Sharpness**	This menu is for selecting the pre-set picture settings. Pre programmed settings are available as well as the user settings also available in addition you can also use **PICTURE** button on remote to select various picture settings. *NOTE:* TINT is available only for NTSC. This function is to adjust tint of picture for NTSC signal.

Video mode	→	**User** **Dymanic** **Standard** **Milld** **Game**	→	**Contrast** **Brightness** **Color** **Tint** **Sharpness**	This menu is for selecting the pre-set picture settings. Pre programmed settings are available as well as the user settings also available in addition you can also use **PICTURE** button on remote to select various picture settings. *NOTE:* TINT is available only for NTSC. This function is to adjust tint of picture for NTSC signal.
Color Temp	→	**Cool** **Normal** **Warm**		Colour Temperature adjusts the colour temperature of the picture to Normal, Warm (reddish) or Cool (bluish).
Noise Reduction	→	**On** **Off**		Noise reduction parameter is used for reducing the noise level present in video.
Advance	→	**Flesh Tone** **Green Tone** **Blue Tone**	→	**Normal** **Mode1** **Mode2** **Mode3**	These parameters are used to increase corresponding Reddish, Greenish or Bluish color of picture.
		Cinema mode	→	**On** **Off**	Cinema Mode is algorithm for auto detect and Cinema mode enable. User can enadle or disable Cinema mode .

AUDIO MENU				
Audio mode	→	**User** **Surround** **Flat** **Music** **Movie** **Sports**	**User**	This menu is for selecting the pre-set Audio setting. Pre programmed setting are available as well as the user setting also available in addition you can also use **SOUND** button on remote to select various sound settings
Balance	→	**-50 … 0 … +50**		By using balance parameter user can adjust balance for output sound
Treble	→	**0,1,2,…50,…100**		This parameter is used to adjust higher frequency level in sound output.
Bass	→	**0,1,2,…50,…100**		This parameter is used to adjust the low frequency level of sound output.
AVL (Auto Volume Level)	→	**On** **Off**		This parameter is used for automatic volume cont. If it is ON then sound volume level is adjusted automatically. In case of distorted audio due to high audiomodulation index, make Auto Volume Control "On"

SEARCH MENU			
Program	→	0,1,...,199	This parameters indicates current program number.
Color System	→	**AUTO** **PAL** **SECAM**	This setting is necessary if picture is not reproduced correctly.
System	→	**BG/I/DK/L/L'**	This setting is necessary if sound is not reproduced correctly.
Country	→	**OTHERS** **AUSTRIA** **BELGIUM** **INDIA** **CROATIA** **CZECH** **DENMARK** **FINLAND** **FRANCE** **GERMANY** **GREECE** **HUNGARY** **ITALY** **LUXEMBOURG** **NETHERLAND** **NORWAY** **POLAND** **PORTUGAL** **SLOVENIA** **SPAIN** **SWEDEN** **SWITZERLAND** **TURKEY** **ENGLAND** **RUSSIA** **SAUDIARABIA**	Select the country as per your requirement.By selecting Country,TV set willautomatically adjust colour and soundSystem corresponding to that country
Auto Search	→	This is Auto Searching Mode that will tune all the channels automatically	
Manual Search	→	This papameter is used to tuned channels manually incase of new channel is not stored in Auto Search.	
Fine	→	This parameters allow to fine tune of channel manually in case of weak signal.	
Program Edit	→	**0,1,2,…,99,199**	This parameter is used for sorting of program. Copy,Delete, Skip, Move Select the color key to select the edit option. Press [Enter] to confirm.
Favourite Program	→	**0,1,2,…,7**	Favourite program parameter is used for arranging the favourite program.Press [FAV] key repeatedly on RCU to access all favourite program one after another.
Program Label	→	**0 to 9** **A to Z** **+, -**	Program Label is used to give the label to the program. Press [◄►] / [▲▼] keys on remote to move the cursor or change the letters. Press the [ATV MENU] key to confirm your choice.

TIME MENU			
Current Time	→	**00:00 to 23:59**	This setting displays the time set by user as a Current Time.
Off Time	→	**00:00 to 23:59**	This parameter used to switche the set to standby after presetted time. *NOTE:* **Off Time** is deactivated when set is switch to standby or mains power supply is switched off.
On Time, On Program	→	**00:00 to 23:59, 0 to 199**	This parameters are used to switche the set On from standby after presetted time to presetted program. To execute the **On Time** and **On Program** set should be in standby mode. *NOTE:* **On Time** gets deactivated when set is switched off by mains power supply.
Reminder Channel, Reminder Time	→	**0 to 199, 00:00 to 23:59**	This is reminder and presently viewed channel gets changed to the presetted program when **Reminder Time** reach to presetted time in reference to **Current Time**. *NOTE:* **Reminder Time** gets deactivated and **Reminder Channel** resets to '1' when set is switched off by mains power supply.
Auto Sleep	→	**0,10,20,30,60,90, 120,180,240 Minutes**	TV set going to standby after the presetted time in Auto Sleep. *NOTE:* Auto Sleep deactivated when set is switch to standby or mains power supply is switched off.

OPTION MENU			
Language	→	**English French German Spanish Italian Russian Greek Portuges Polish Romanian Hungarian Bulgarian Czech Serbian Slovakia Turkish Croatia**	**Language** is used to select OSD display language as per requirement.
Zoom	→	**16:9 Original 4:3 Zoom**	This parameter is used to select Aspect Ratio for picture.
Blue Screen	→	**On Off**	This parameter is used to control screen display in absence of signal. If it is **ON** then displayed sreeen is Blue and if it is **OFF** then displayed screen is raster when source is TV and in case of other source displayed screen is Black.

Keypad Lock	→	On Off	Keypad Lock function is used to lock the operation of the front keys of TV set.
OSD Transparent	→	0,1,2,…,9,10	This parameter is used to adjust transparency of menu OSD window.
TTX Language	→	West Europe East Europe Russian Greek Arabic Farsi	This function is used to set TTX Language as per requirement.
BackLight	→	0,1,…,9,10	This parameter is used to adjust the brightness level of panel.

Child Lock The password is "000000" by default.	→	Change Password			This feature is used to change the default password (000000) to any user defined password
		Child Lock Enable	→	On Off	By using this parameter user can Enable or Disable the Child Lock either by doing **On** or **Off.**
		Channel Number	→	0 - 199	This parameter used to lock specific channel in case of **Child Lock Enabl** is **On.**
		Channel Lock	→	On Off	By using this parameter user can Enable or Disable the Channel Lock either by doing it **On** or **Off.**
		Source	→	TV AV SCART1 SCART2 S-Video YPbPr VGA HDMI1 HDMI2 HDMI3 DTV	This parameter used to lock any source in case of **Child Lock Enable** is **On.**
		Source Lock	→	On Off	By using this parameter user can lock any source by doing **On** or **Off.**

Hotel Mode The password is "000000" by default	→	Change Password			This feature is used to change the default password (000000) to any user defined Password.
		Hotel Mode Enable	→	On Off	By using this parameter user can Enable or Disable the Child Lock either by doing **On** or **Off.**
		Force Pos	→	0-199	This parameter is used to set channel number on which set goes forcefully when on from standby or mains supply in case of Hotel Mode Enable is 'On' & force video set to TV.

Force Video	→	TV AV SCART1 SCART2 S-Video YPbPr VGA HDMI1 HDMI2 HDMI3 DTV	This parameter is used to set the source that forcefully selected when TVsource on from standby or mains power supply in case of **Hotel Mode Enable** is '**On'.**
Search Disable	→	On Off	This parameter is used to set the **SEARCH** menu either enable ordisable in case of **Hotel Mode Enable** is **'On'.** This parameter is used to set maximum level of volume,after setting this level in
Max Volume	→	0 – 100	In case of **Hotel Mode Enable** is **'On'**, user can only able to increae the volume Level upto the level presetted in **Max Volume** parameter.

5. DTV MENU OPERATIONS

In this manual the OSD (On Screen Display) may be different from your TV because it is just an example to help the TV operation.

- **Before to start, please ensure that TV set is in DTV mode .**
- **Press [SOURCE] key on remote control unit and press [▲▼] keys to select DTV source and press [►] key on remote to enter into DTV mode**.
  1. Press [DTV MENU] key to display OSD menu.
  2. Press [▲▼] keys to select the menu required, then press [ENTER] key to select it.
  3. Press [▲▼] and [◄►] keys to select and adjust the funtions.
  4. Press [ENTER] key to confirm, [DTV MENU] key to exit.

FAVOURITE LISTS				
FAVOURITE LISTS	→	Create a Favourite List	→ Name Channels	This screen allows you to create a new favourite channels list with selection criteria. The name of the list is set to **"FAV 1/2"** for TV services and **"RFAV 1/2"** for Radio.
		Modify a Favourite List	→ Radio TV	This screen allows you to modify a favourite list. The current favourite list name is displayed on the top of the screen. User can modify the channel list by Lock, Skip/Delete, Sort/Move or Skip All/Add All the channels. **NOTE:** Channel deleted from the favorite list will also get deleted from the actual list.
		Delete a Favourite List	→	This screen allows you to delete a favourite list.

CONFIGURATION				
Channel Installation	→	**Auto Installation**		This screen allows you to install channels with two type : New or Add in Auto and Manual Installation. The Installation can be new one or can be an addition to the current installation.
		Manual Installation		
User Settings	→	**Info languages Audio languages Subtitle languages**	→ **English Gàidhlig Cymraeg**	This screen allows you to customize the TV set. You can set your preferred language (Info, Audio, Subtitle Languages), modify the subtitle display, opacity level and LCN On/Off.
		Subtitle Display	→ **On Off**	
		Opacity level	→ **Opaque 70%-90%**	
		LCN	→ **On Off**	
System Parameters	→	**Factory Settings**		This acknowledge pop-up allows you to erase all the customize parameters. If it is all services lists and user preferences are deleted and TV set restart as for a "First Time Intsallation".
		Software Upgrade		The software can be automatically updated with a new release during the standby of the TV set.
		System Informations		This screen gives you some information about the TV set (Device Version and Software Version).
Signal Information	→	This parameter indiacates channel number, channel frequency and quality of signal in terms of Bit Erroe Rate(BER		
Conditional Access	→	- Insert Card Adapter into CI slot. - CI-CA will be detected and displayed in the "Multi CI-CA List" menu. - Insert the Card then press [Enter] to enter in the Main menu.		

PARENTAL CONTROL		
PIN Code The pin code is "0000" by default.		
Parental Control	→	If the Parental Locking is Disabled then all the locking are deactivated. If it is Enable then all the locking are applied according to your choice.
Receiver Lock	→	If this item is set to YES, each time the TV set turns to running mode, the PIN code has to be input.
Menu Lock	→	This item allows you to protect the menu screen access and all its sub-screens.
Maturity Level	→	A parental rating is between 1 to 18 years, is available. In this case all services which are not age limit become unaccessible unless enter the PIN code. This parental depends on the information forwarded or not by the broadcaster.
A press on RED button allows you to modify the PIN code from default ("0000") to any user defined PIN code.		

HOTEL MODE		
PIN Code The pin code is "0000" by default.		
Hotel Mode	→	The Hotel Mode Items allows you to enable or disable the Hotel Mode option.
Force Position	→	This item let you select which program you want to set when first change to DTV.
Not Install	→	This item can enable or disable the channel Install menu.
Change Password	→	This parameter used to change the default password (0000) to any user defined password.

6. TROUBLESHOOTING

Before you call the service person, check the following points.
Please bear in mind that malfunctions can also be caused by external devices.

PROBLEM	POSSIBLE CAUSES
No picture, no sound	Mains adapter is not plugged in.
	The TV is not switched on.
Picture but no sound	Volume is set to minimum or mute.
	Incorrect sound system setting.
No TV picture	TV is switched to AV.
	Antenna is not plugged in.
	TV is not installed correctly.
Picture has pale colours, is too dark or blurred	Set colour, brightness and contrast.
There is no colour on all channels	Antenna cable does not contact adequately.
	Antenna cable is broken.
	Aerial system is faulty.
Bad picture with interference	Tune the affected channels, if necessary, perform fine tuning.
No colour on individual channels	
No colour	Check the colour system, regulating to the colour system of the country.
Snowy picture	Antenna cable does not contact adequately.
	Antenna cable is broken.
	Aerial system is faulty.
Ghosting	Direct the antenna at the station, Verify the cable integrity.
Teletext missing or faulty	Station has no teletext.
	Weak broadcasting signal.
Remote control does not work, or command hasn't action on the TV.	TV is not switched on.
	The batteries are flat or inserted incorrectly.
	Bright external light is falling on the receiver or remote control signals.
	Obstacles between remote control and remote control receiver affect data transmission.
	Switch Off the TV trough the main On/Off button, or remove the main plug, then switches On again as soon as the LED light disappears.
TV does not respond to commands or images are instable.	Switch Off the TV trough the main On/Off button, or remove the main plug, then switches On again as soon as the LED light disappears.

7.   WARRANTY CERTIFICATE

Guarantee Terms and conditions for the TV set

Important: keep the original packaging for at least 15 days together with the document indicating proof of purchase.

Thank you for purchasing this product.

We are confident you will enjoy using it for many years to come.

The Product warranty is for a period of 24 (twenty four) months from the date of original purchase (date of receipt) against defective materials and workmanship.

If, after reading the instruction book trouble-shooting guide, you believe that there is a technical fault with the product, you should return it to the retailer where you purchase it.

NORDMENDE will comply with the warranty on the same terms and conditions as those normally offered to consumers in that country.

In case of difficulty, details of our authorized Service Department, who will also be pleased to help you with regard to queries concerning the guarantee or the use of your product.

Warranty Terms And Conditions

1. This warranty is only valid when accompanied by the original Invoice, sales receipt or confirmation from NORDMENDE of the warranty period. If the serial number is defaced, missing or illegible, the warranty with NORDEMNDE is null and void. In this case you should contact the dealer from whom the product was purchased.

2. NORDMENDE's obligations are limited to the successful repair or, all its discretion, replacement of the product of defective component(s).

3. NORDMENDE invests heavily in its Service Network to ensure all repairs are completed in a speedy and professional manner. For this reason Warranty repairs must be carried out by either the original dealer, or an authorized NORDMENDE dealer or an authorized NORDMENDE Service Centre. The cost of repairs carried out by non-authorised dealer in warranty will not be re-imbursed unless preauthorized by NORDMENDE Service Department. In the event of an unauthorized warranty repair failing, NORDMENDE will not accept liability for the cost of rectification or for any damage caused by such unauthorized repair work.

4. TV set are intended for use in the country where it was sold. NORDMENDE do not therefore accept liability for the cost of adaptation from one television broadcast system to another (eg from PAL-I to PAL BG or SECAM). Should you choose to have this product adapted, the NORDMENDE warranty will not cover and no reimbursement will be made for the adaptation.

5. The NORDMENDE warranty does not cover any of the following actions:

a. Periodic check ups, maintenance and repair of replacement of parts due to normal wear and tear.

b. Cost relating to transport, removal or installation of the product.

c. Misuse, including failure to use the product for its normal purposes or incorrect installation.

d. Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper or insufficient ventilation or any other cause beyond the reasonable control of NORDMENDE.

6. This warranty is valid for any person who has legally acquired possession of the product during the initial warranty period.

7. The consumer statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the right under this warranty are the consumers sole rights and NORDMENDE. Its subsidiaries and distributors shall not be liable for any indirect or consequential loss or damage to records, compact discs, video or audio tapes or any other related equipment, software or material.

For assistance, please visit www.nordmende.eu
☎   **After sales helpline number +44 0845 313 1970.**

BLOCK DIAGRAM

PCB:TVC-SAX68EDA-30N
DATE:2008-09-05

usb IR

con702 usb_sw

U4 FLASH SST25VF080B

con4 JTAG

con9 RS232

con704 KEY PAD

con17 IR

U2 EEPROM 24C64

U24 RESET IC LM810

con11 I2C SLAVE

con13 I2C MASTER

90-250v

POWER SUPPLY

ON/OFF

+24V   INVERTER

-12V AMPLIFIER

U16 MP1430   +12V/+5V LVDS

+12V   U20 OCP2020   +1.2V CORE POWER

+5V   U30 AP1117E25   +2.5V

U32 AP1117E33   +3.3V

SB5V   U31 AP1117E33   SB_+3.3V

U29 AP1122EL   SB_+1.2V

I/O

U1 Trident AX68

con20
BKLT_EN
BRT_CTL

LCD PANEL

LVDS
con3

INVERTER +24V

U5 SDRAM

U801 TDA9886

U701 R2A15108 AMPLIFIER

SAW801 K395M30

SAW802 K9456M30

AUDIO

I2C

TV_MONO

CON6 SCART 2

CON5 SCART 1

AV_AUDIO

U601 PS321 HDMI SWITCH

U7 74IVC14

U201 PI5V330

U14 74HC4052

USB AUDIO

U802 PI5V330

YPbPr_audio

AV_CVBS

U803 74HC4053

USB CVBS_IN

LG TUNER (ALPS TUNER)

S-VIDEO

YPbPr

con7 HEADPHONE

CN601 HDMI 1

CN602 HDMI 2

CN604 HDMI 3

VGA

VGA AUDIO

DTV_YUV

DTV AUDIO

I2C_DTV

IF+/IF-

DTV MODUL