22" LED TV

C22277 T2 S2 CP6

User Guide

Contents

Thank you for purchasing your new 22" FHD LED TV.

Your new TV has many features and incorporates the latest technology to enhance your viewing experience. We recommend that you spend some time reading this instruction manual in order that you fully understand these features. You will also find some hints and tips to help you resolve any issues.

Read all the safety instructions carefully before use and keep this instruction manual for future reference.

Unpacking the TV / Accessory's

TV set

Stand feet & Screws
(ST4 x 10 4PCS)

Screws(M4 x 8 4PCS)

Remote Control
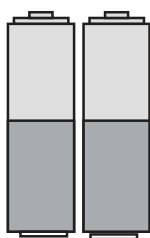
Batteries
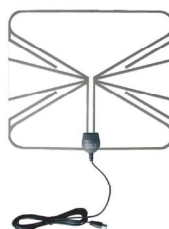
aerial

Main adapter

Car adapter

Lamp(12V 1W) 2PCS

screwdriver

Quick Start Guide

User Manual

Lamp Cable 2pcs
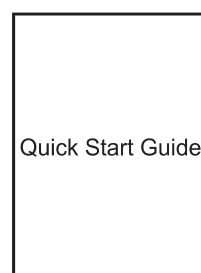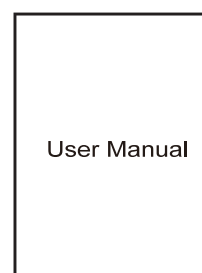
Quick Start Guide   User Manual

Installing / Removing the Base Stand

The parts

TV set
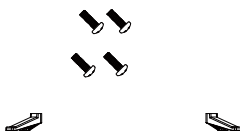
Stand feet & Screws
(ST4 x 10 4PCS)

Screws(M4 x 8 4PCS)

Installation

Place the TV face down on a soft and flat surface (blanket, foam, cloth, etc.) to prevent any damage to the TV.

1.Place the stand in position as shown,fix it with the supplied screws (4x(ST4X10))
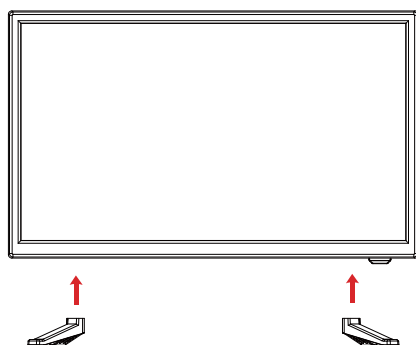
This unit is VESA-Compliant and designed to be wall mounted with a VESA-Compliant 100 x 100mm mounting kit.
Mount this unit according to the instructions of the wall bracket(not supplied)

100mm

100mm

Four mounting holes
(Screw size M4 x 8)

First TIme Installation

Unscrew

Fix
Battery

screw

Battery
Connected

3
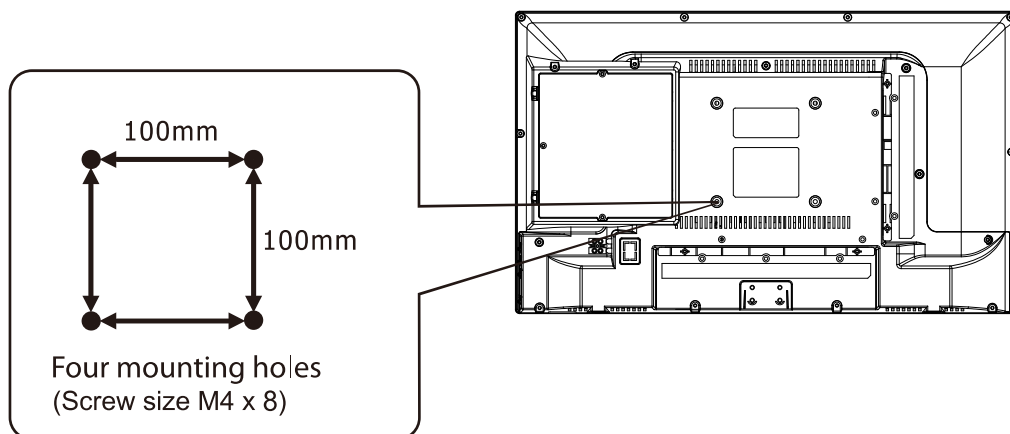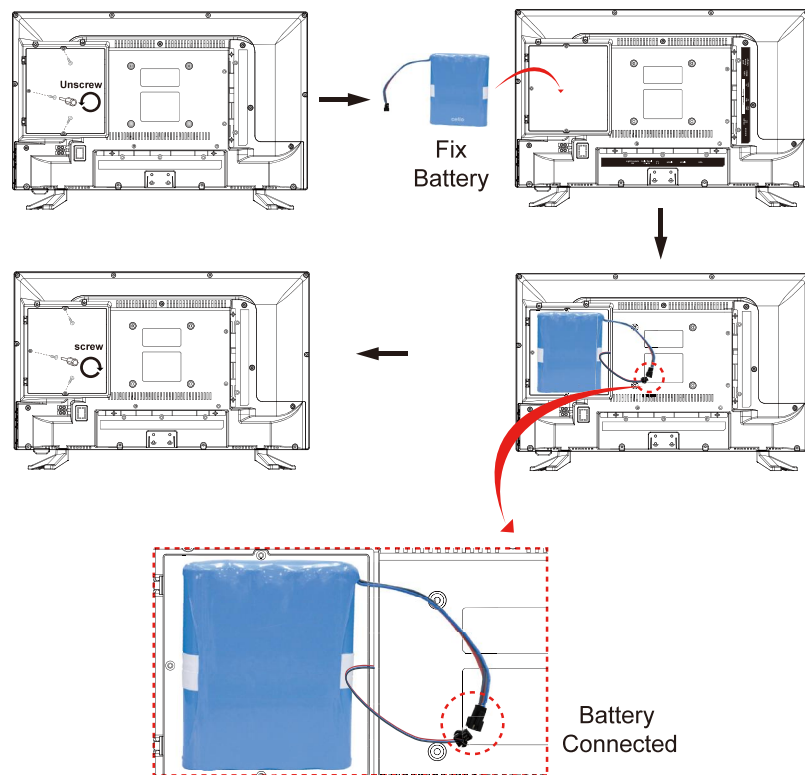
Front / Right Side View and Controls
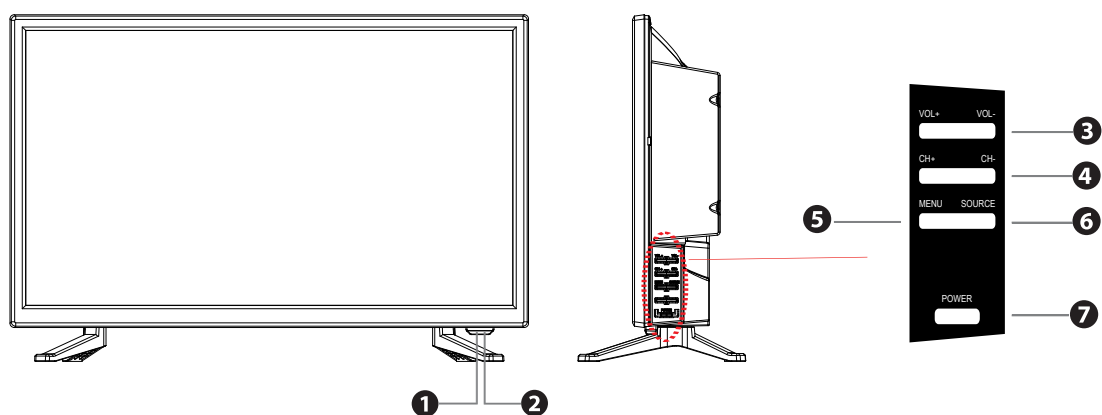
Item		Description
1	**IR (Infrared Receiver)**	Receives IR signals from the remote control. Do not put anything near the sensor, as its function may be affected.
2	**POWER LED**	Illuminates green when the TV is turned on. Illuminates red when the TV is in standby mode. The LED will alternate between red and green when the PVR timer programming has started in the standby mode.
3	**VOL + / –**	Adjusts the volume. Press to select and adjust a setting in the OSD menu.
4	**CH + / –**	Press to select a channel or select a sub-menu from the OSD menu.
5	**MENU**	Displays the OSD (on screen display) menu.
6	**SOURCE**	Press to select among different input signal sources: DTV / Satellite / ATV / AV / YPbPr / PC / HDMI1 / HDMI2 / USB.
7	**POWER**	Switches the TV on from standby mode. Switches the TV back to standby mode.

Rear View and Sockets
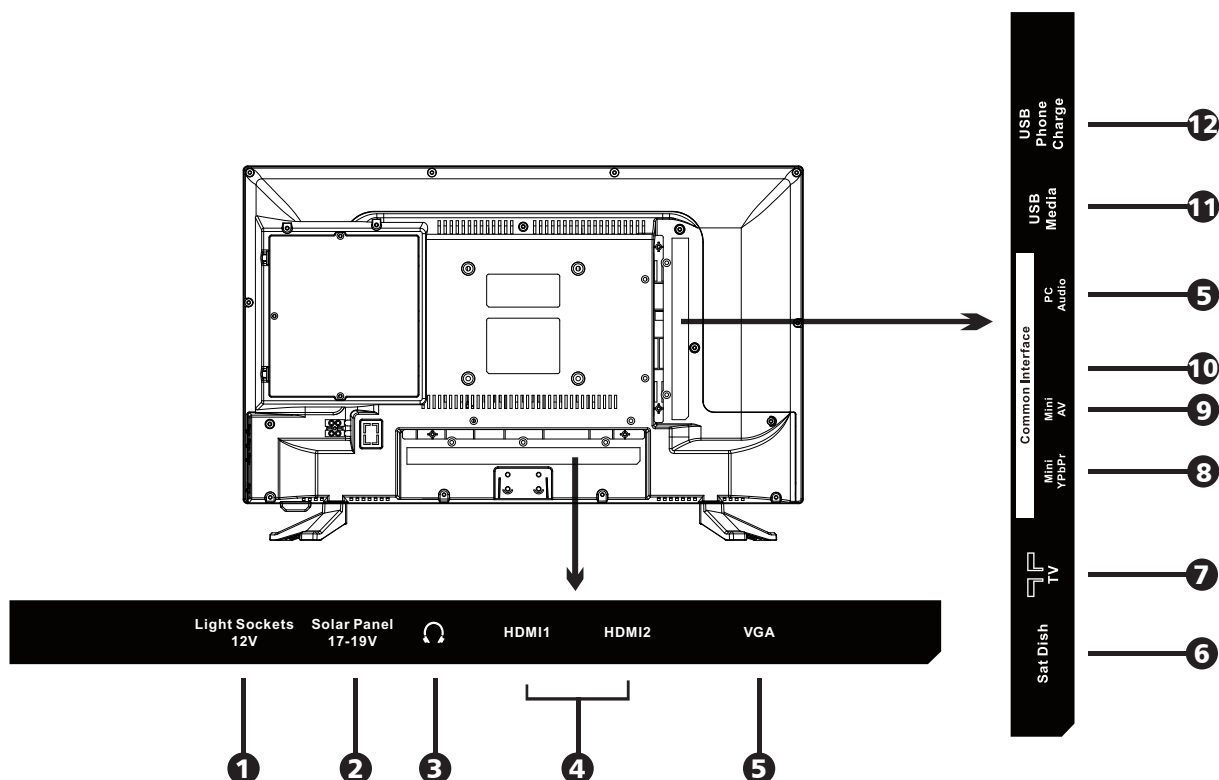
Socket		Description
1	12V LIGHTS(2x1Watt)	2 LED lights
2	SOLAR PANEL 17-19V	To connect to power supply
3	Headphone out	To connect to the earphones.
4	HDMI IN	To connect to a High-Definition (HD) signal output device, such as a set-top box, blu-ray disc player or AV receiver.
5	VGA / PC AUDIO IN	To connect to a computer or other devices with a VGA interface.
6	Sat Dish	To connect to a satellite signal.
7	TV Aerial	To connect to the aerial socket on the wall with the RF coaxial cable.
8	Mini YPbPr	To connect to aDVD player,Digital Set-Top-Box,or other devices with component(YPbPr) video and audio output sockets.
9	Mini AV	To connect to aDVD player,Digital Set-Top-Box,or other devices with composite(AV) video and audio output sockets.
10	CI (Common Interface) Slot	Allows the insertion of a Common Access Module.
11	USB	Allows the insertion of a USB storage device to play video, audio, photo and text files (Media mode) and record DTV programmes on to a USB storage device.
12	USB Phone Charge	Output 5V 1A for phone charge.

Remote Control

Dependant on the Model of the TV some keys will have no function

Power Turn on or standby

Soft Keys.
The action is shown on the menu and changes for each menu.
Reserved for MHEG in DTV

Prev Track, File, Day.(Media, PVR, EPG)

Next Track, File, Day.(Media, PVR, EPG)

Pause / Play PVR & Multimedia

Stop PVR & Multimedia

Menu

Picture
Sound
Channel
Lock
Time
Option

Batt Save
Extend battery life,picture will be dimmer.
Press to see current mode and hold for 5 seconds to change mode.

Mute Mute sound

Exit Exit from any menu

Info key
In DTV mode-shows now/next.
2ⁿᵈ press Extended program Info.
Whilst Recording Shows detail of recording and space available on the Card.
TXT Mode – Index function

Picture / Aspect key

Sound / Nicam key

Channel +/-
Increase and decrease the channel number

Volume +/-
Increase and decrease the volume

*Dependant on Model

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Remote Control

■ **Functions of remote control buttons**

Dependant on the model of theTV some keys will have no function

◀◀ Fast reverse

Rec Start recording

Input
DTV
Satellite
ATV
AV
YPbPr
PC
HDMI1
HDMI2
USB

▶▶ Fast forward

Radio Switch between TV and Radio

SUB:
DVD and DTV mode only.*

Thumb stick (▲/▼/◀/▶/OK)
Allows you to navigate the on-screen menus and adjust the system settings to your preference.

EPG
Press to enter the EPG,and press again to exit

NUMBER BUTTONS
Press 0-9 to select a TV channel directly when you are watching TV.
The channel change after 2 seconds.

TEXT:
Switch between TV and Teletext mode.*

TOKEN:
Recall the Paygo system page.*

POWER

◀◀ ▶▶ ▐▶ REC ■

MENU RADIO BATT SAVE

SOURCE MUTE SUB

EXIT INFO

▲ OK ◀ ▶ ▼

PICTURE SOUND

VOL+ EPG CH+

VOL− CH−

1 2 3
4 5 6
7 8 9
TEXT 0 TOKEN

***Dependant on Model**

Installing Batteries in the Remote Control

1. Press and lift the back cover to open the battery compartment of the remote control.

2. Insert two 1.5V AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment.

3. Close the battery compartment cover.
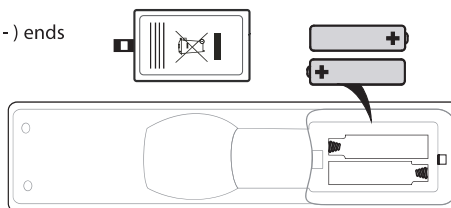
⚠ **Handling the Batteries**
- Improper or incorrect use of batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property.
- Only use the battery type indicated in this manual.
- When the batteries are exhausted, the remote will not function. Replace both batteries at the same time with new ones.
- Do not install new batteries with used ones and do not mix different types of batteries.
- Do not dispose of used batteries as domestic waste. Dispose of them in accordance with local regulations.

⚠ **Handling the Remote Control**
- Take care of your fingernails when you press and hold the battery release tab.
- Do not drop or cause impact to the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control under direct sunlight or near sources of excessive heat.
- Remove the battery from the remote control when not in use for a long period of time, as it could cause corrosion or battery leakage and may result in physical injury and/or property damage including fire.

Remote Control Operation Range

Point the remote control at the TV no more than 5 metres from the remote control sensor on the TV and within 60° in front of the TV. The operating distance may vary depending on the brightness of the room.

30° 30°

5M

8
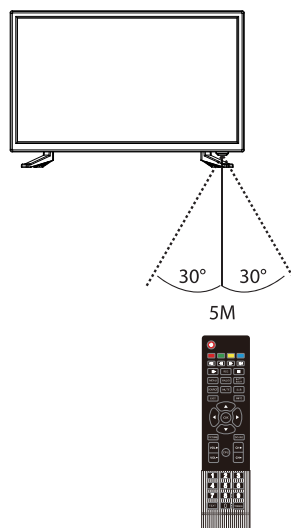
Making Video and Audio Connections

Not all AV devices have the ability to connect to a TV, please refer to the owner's manual of your AV device for compatibility and connection procedures.

When connecting any external AV device, do not connect the mains cable to the mains socket until all other connections are complete.

Best Video Performance		Signal Type	Separate Audio Connection Required
	HDMI	HDMI (480i/480p/576i/576p/720p/1080i/1080p)	No
	VGA	PC	Yes ● PC AUDIO
	Mini YPbPr	Component Video (480i/480p/576i/576p/720p/1080i/1080p)	Yes ◉ Mini AV
	Mini AV	Composite Video	No

Connecting an AV Device with an HDMI Cable

- This TV can accept High-Definition Multimedia Interface (HDMI) and supports HDCP (High-Bandwidth Digital Content Protection) Protocol.

- The TV has a total of HDMI input sockets, please make sure the correct input source is selected corresponding to your connected HDMI input socket.

- When you connect to the output of an HD ready player (blu-ray disc player, game console, set-top box or computer) switch to the HDMI function and the TV will automatically detect the resolution used by the HDMI source.

- To get the best picture quality, adjust the blu-ray disc player, game console or set-top box output resolution up to 1920 x 1080p.

1. Use an HDMI cable to connect the TV's HDMI input socket to the external AV device's HDMI output socket.

2. Plug the connected devices into the mains socket

3. Press the **STANDBY** button on the TV or the ⏻ button on the remote control to turn on your TV.

4. Press the **SOURCE** button on the TV or the **SOURCE** button on the remote control to display the Source List. Use the ▲▼ buttons to select **HDMI** and then press the **OK** button to confirm.

⚠ Although this TV is able to connect to an HDMI device, it is possible that some devices may not operate correctly.

Rear View of TV

| Light Sockets 12V | Solar Panel 17-19V | ⌒ | HDMI1 | HDMI2 | VGA |

HDMI Cable (not included)

Game Console   Set-top Box   Blu-ray Player / DVD Player / Recorder

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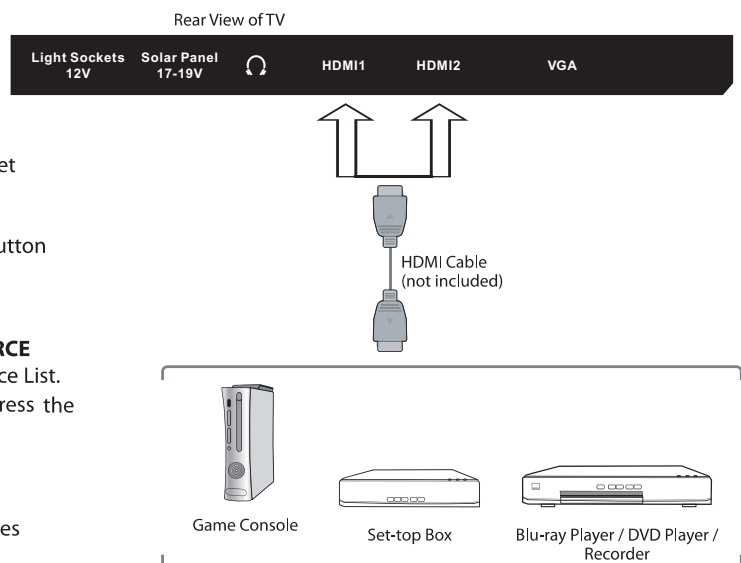
Turning the TV on for the First Time

1. Connect the end of the RF coaxial cable of the aerial and the rear bottom of your TV.

⚠ Do not switch on with power switch until you have completed all the connections.

2. Switch on with power switch.

3. At this stage, the TV switches to standby mode. The red LED indicator will illuminate on the front panel of the TV.

4. In standby mode, press the **STANDBY** button on the TV or the ⏻ button on the remote control to turn the TV on. The LED indicator will change from red to green.

📌 The **STANDBY** button is located on the rear right side of the TV and on the remote button.

⚠ • Always switch of
   • The **STANDBY** button on the rear right side of the TV or the ⏻ button on the remote control is only used for switching the TV into standby, it does not disconnect the TV from the battery.

SMART ANTENNA

Power Switch

Light Sockets 12V | Solar Panel 17-19V | ⌂ | HDMI1 | HDMI2 | VGA | Sat Dish | TV | Common Interface | Mini YPbPr | Mini AV | PC Audio | USB Media | USB Phone Charge

5. If this is the first time you are turning on the TV and there are no programs in the TV memory, the Quick Start menu will appear on the screen. There are 4 setups as follow:

First Time Installation

OSD Lang uage   ◁ English ▷
Country   ◁ UK ▷
MENU Return   OK OK

1

First Time Installation

Auto Standby   ◁ 4H ▷

MENU Return   OK OK

2

First Time Installation

Tv Connection   ◁ DTV ▷
Tune Type   ◁ DTV ▷
MENU Return   OK OK

3

First Time Installation

Please ensure the aerial cable is plugged into the TV. Now choose "OK", the TV will tune all available channels.

OK   Cancel

4

First Time Installation

POWER SAVE   ◁ Daytime ▷
Times are only approximate
EXIT Exit   OK OK

5

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Selecting the Input Source

1. Press the **Source** button on the TV or the **Source** button on the remote control to display the Input source list.

2. Press the ▲▼ buttons to select the input source that you want: DTV, Satellite, ATV, AV, YPbPr, PC, HDMI1, HDMI2, USB.

3. Press the **OK** button to confirm your selection. If you do not press the **OK** button to confirm, the TV will automatically confirm the selected input source within 4 seconds.

Input Source
DTV
Satellite
ATV
AV
YPbPr
PC
HDMI1
HDMI2
USB
OK OK

Channel Selection

· Press the **CH+ / –** buttons on the TV or on the remote control repeatedly or the **0-9** buttons on the remote control to select the channel.

⇔➡ **Alternative**

Press the **OK** button to enter the **Channel List**. Then use the ▲▼ buttons to highlight and select the channel. Press the **OK** button to view the selected channel.

· If a blocked channel is selected, the password screen will be displayed. Press the **0-9** buttons to enter the password, the channel will then be unlocked (refer to page 17 for details on LOCK).

Display Channel Information
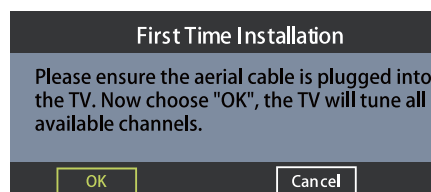
· Press the **Info** button to view the current information.

Volume Adjustment

· Press the **VOL+/–** button on the TV or on the remote control to adjust the volume.
· If you wish to switch the sound off, press the **Mute** button. Press the **Mute** button again or the **VOL+** or **–** button to resume audio listening.

Picture Setting

Allows you to set your preferred picture mode.

1. Press the **Menu** button and then press the ◀▶ buttons to select the **PICTURE** menu.

2. Press the **OK** or ▾ buttons and then press the ▲▼ buttons to select the following picture options and then press the **OK** button.
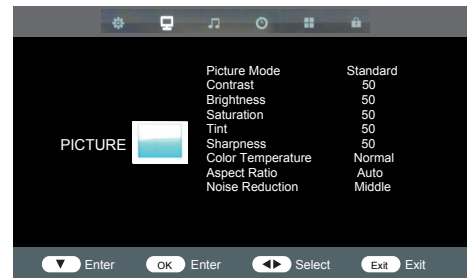
Picture Mode	Standard
Contrast	50
Brightness	50
Saturation	50
Tint	50
Sharpness	50
Color Temperature	Normal
Aspect Ratio	Auto
Noise Reduction	Middle

PICTURE

▼ Enter   OK Enter   ◀▶ Select   Exit Exit

Picture Mode   Press the ▲▼ buttons to cycle among picture mode: Dynamic / Standard / Mild / User.

> **Alternative**
> You may press the **Picture** button once and then press the ◀▶ buttons to select the picture mode directly.

Contrast   Press the ◀▶ buttons to adjust the difference between light and dark levels in the picture.(for User mode)

Brightness   Press the ◀▶ buttons to increase or decreases the amount of white in the picture.(for User mode)

Saturation   Press the ◀▶ buttons to increase or decreases the saturation.

Tint (For NTSC format)   Press the ◀▶ buttons to adjust the balance between red and green levels. (Tint is only available for NTSC signal input via the SCART or AV IN.)

Sharpness   Press the ◀▶ buttons to adjust the level of crispness in the edges between light and dark areas of the picture.(for User mode)

Colour Temperature   Press the ▲▼ buttons to cycle among colour temperature: Normal / Cool / Warm. Adjusts the colour components independently to achieve a warm or cool.
- **Normal**
- **Cool**:   Increases blue tint
- **Warm**:   Increases red tint

Aspect Ratio   Press the ▲▼ buttons to cycle among aspect ratio: 4:3 / 16:9 Auto / Zoom1 / Zoom2.

> **Alternative**
> You may press the **Picture** button twice and then press the ◀▶ buttons to select the aspect ratio directly.
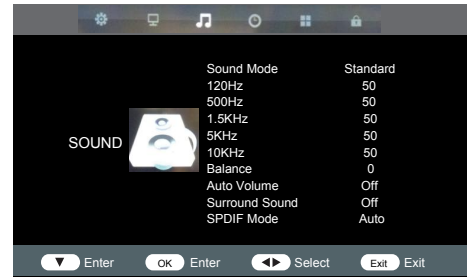

Noise Reduction   Press the ◀▶ buttons to select to reduce the noise level of the connected device: Off / Low / Middle / High and then press the   button to confirm.

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3. Press the **Menu** button to return to the previous menu. Press the **Exit** button to exit the menu.

Sound Setting

Allows you to select an audio-enhancement technique.

1. Press the **Menu** button and then press the ◄► buttons to select the **SOUND** menu.

2. Press the **OK** or ▾ buttons and then press the ▲▼ buttons to select the following sound options and then press the **OK** button.

```
                    Sound Mode          Standard
                    120Hz                   50
                    500Hz                   50
          SOUND     1.5KHz                  50
                    5KHz                    50
                    10KHz                   50
                    Balance                  0
                    Auto Volume             Off
                    Surround Sound          Off
                    SPDIF Mode              Auto

    ▼  Enter    OK  Enter    ◄►  Select    Exit  Exit
```

Sound Mode Press the ▲▼ buttons to select an audio-enhancement technique: Standard / Music / Sports / User .

> **Alternative**
> You may press the **Sound** button once and then press the ◄► buttons to select the sound mode.

Balance Press the ◄► buttons to adjust the relative volume of the speakers in a multiple speaker system.

Auto Volume This feature automatically adjusts the audio level when the TV is turned on. This function is activated by selecting"Off".

Surround Sound Turn on/off the surround sound function by selecting "Surround" or "Off".

SPDIF Mode Select the spdif mode for the TV from off, PCM and Auto.

3. Press the **Menu** button to return to the previous menu. Press the **Exit** button to exit the menu.

Speaker Sound Output Selection (Antenna Mode)

While watching a DTV programme, you can press the **Sound** button to display the audio language list (only applicable when the TV programme has this feature).

Press the ▲▼ buttons to select an audio language or audio format if available and then press the ◄► buttons to select sound track between Left, Right and Stereo. Press the **OK** button to confirm and exit.

Channel Setting (TV, DTV or Radio Mode)

Allows you to set up a variety of channel options.

1. Press the **Menu** button and then press the ◄ ► buttons to select the **CHANNEL** menu.

2. Press the **OK** and then press the ▲▼ buttons to select the following channel options and then press the **OK** button.

CHANNEL	Auto Tuning	
	DVB-T Manual Tuing	
	ATV Manual Tuing	
	Programme Edit	
	Signal Information	
	CI Information	
	5V antenna power	Off
	LCN	Off
	Software Update(USB)	

▼ Enter   OK Enter   ◄► Select   Exit Exit

Auto Tuning

1. Press the ▲▼ buttons to Auto Tuning then press the **OK** button to confirm.

2. In the Auto Tuing menu there are 2 options for you to selet from:Tune Type and Country.

3. Press the Menu button to return back to the main menu.

4. Press the Exit button to exit the menu.

Tune Type		DTV + ATV
Portugal	Serbia	Sweden
Rumania	Slovenia	Switzerland
Russian	Spain	UK

▼ Enter   ◄► Adjust   MENU Return

Smart Antenna

For the smart antenna to work, 5V antenna power must be set to ON.
If you have no channels check this.

Channel Setting (TV, DTV or Radio Mode)

DVB-T Mannual Tuning

How to search Digital channels manually.

1.Select DVB-T Mannual Tuning,press the   **OK**   button to confirm.

2. Select a channel number by pressing the ▶ button or by using the number buttons on the remote control. The Strength and Quality of the signal indication bars are below.

3. Select   **OK**   to begin the search.

4. To exit the tuning menu press EXIT.

ATV Mannual Tuning

To search analogue channel by entering parameters manually.

1. Press the ▲▼ buttons to ATV Mannual Tuning then press the   **OK**   button to confirm.

2. Select ATV manual search item to enter air channel manual search in ATV source and the user operation interface as following.

Storage To 1	Press the ◀▶ buttons to change the numbered location of the found channel.
Sound System	Selects the sound system: BG / DK / I / L.
Color System	Selects the color system: SECAM / PAL / NTSC.
Current Channe	Displays the current channel number.
Search	Press the ◀▶ buttons to start the manual tuning.
Fine-Tune	Press the ◀▶ buttons to make manual fine tuning adjustments.

3. Press the **Menu** button to return back to the main menu.

4. Press the **Exit** button to exit the menu.

15
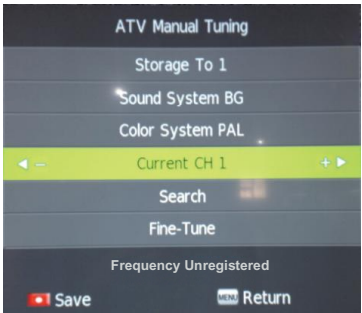
Channel Setting (TV, DTV or Radio Mode)

Satellite Edit

1. If you do not have a fixed dish aligned to Astra 19.2E fitted with universal LNB you will need to use this section.
2. If you have a fixed Dish aligned to a different Satellite or with a different LNB you will need to use this section.
3. If you have a motorised Dish with a DiSEqC rotator and wish to tune more than one satellite you will need this section.
4. If you are on a DiSEqC switch system you will need this section.

The first 2 installations can be done by most people so long as you know what satellite your dish is aligned with and what type of LNB it is fitted with.

Installation of 3 & 4 require an experienced user or engineer.

To set a different Satellite or LNB

Select Satellite mode, press MENU key, navigate down to the **Satellite Edit**, press OK. You will see the Satellite Edit menu

Satellite List

The Satellite list displays the satellite names.

No. The current list number of the selected satellite Satellite name. The No. cannot be edited.

Satellite name: Press the OK button to open the edit menu as below image

Press the number buttons on the remote to edit the name.

Orbit Postion : Press the number buttons to edit longitude angle and press LEFT /RIGHT button to change Longitude direction

LNB Type :LNB Frequency

DiSEqC1.0: 4 select 1 switch (Require the user device support DiSEqC 1.0 protocol). Press ◄► to select LNB1/ LNB2/ LNB3/LNB4/None.

LNB1/LNB2/LNB3/LNB4: Corresponding to a satellite , After selecting the corresponding list will appear in the satellite list.

DiSEqC 1.1: 16 select 1 switch (Require the user device support DiSEqC1 .0 protocol) Equipment needs support DiSEqC 1.1 protocol, Most control 16↑LNB. Press ◄► to select LNB1~LBN16/None.

LNB 1-LNB 16: Corresponding to a satellite, After selecting the corresponding list will appear in the satellite list.

Tone 22KHz : The level of the LO switch / DS switch (Require the user to have installed 22KHzSatellite signal switch). Press ◄► to select Auto/On/Off.

Transponder : Press OK button to edit the transponder.

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Channel Setting (TV, DTV or Radio Mode)

Edit Transponder menu

Press OK button to edit the Transponder

Satellite	
Frequency(MHz)	10729
Symbol Rate(Ksym/s)	22000
Polarity	Vertical Pos.

Frequency: Set the downlink frequency.

Symbol (ks/s): Set the Symbol Rate.

Polarity: Set the polarity (horizontal or vertical).

Delete Transponder

Press the RED button to delete the Transponder.

Add Transponder

Press the Yellow button to delete the Transponder.

Satellite	
Frequency(MHz)	0
Symbol Rate(Ksym/s)	0
Polarity	Horizontal Pos.

Frequency: Set the downlink frequency.

Symbol (ks/s): Set the Symbol Rate.

Polarity: Set the polarity (horizontal or vertical).

Motor: Control of multi-satellite polar (Require the user device support DiSEqC1.2 or DiSEqC1.3 protocol), Left and right buttons to select DiSEqC1.2/ DiSEqC1.3/None.

DiSEqC1.2: DiSEqC1.2 Protocol selection

DiSEqC1.3: DiSEqC1.3 Protocol selection

For Motor definite "DiSEqC1.2" , Operating Instructions:

Press RED button to enter "Set Limit" menu.

Press OK button to enter Set Position menu.

Band : Band selection,press LEFT/RIGHT button to select.

Press RED button to delete a Satellite
Press Yellow button to Add a new Satellite

Satellite	
Satellite Name	ASTRA 1N,1KR,...
Orbit Position	019.2 E
LNB Type	Universal
DiSEqC1.0	LNB 1
DiSEqC1.1	Off
Tone 22KHz	Off
TransPonder	
Unicable Setting	Off
Motor	Off
Band	Ku
Select	
Select	MENU Return

Channel Setting (TV, DTV or Radio Mode)

Programme Edit

Use up/down keys to select program edit.Press **OK** to enter the menu.

Delete

Press the RED button to delete the highlighted channel, a red circle will appear next to the cahnnel name.

Press the RED button again to confirm delete.

Press the MENU to return to the main menu.

Move

Press up/down to select the cahnnel,press yellow button to enter the move mode,then press up/down to move the channel location,press yellow button again or press **OK** to confirm.

Press MENU to return to the main menu.

Skip

Press up/down to select the channel you wish to skip.

press the BLUE button,a logo will appear next to the channel name and the channel will be skipped when you scroll through the channels.

Press the BLUE button again on the highlighted channel to disable the skip function.Press MENU to return to the main menu.

Signal Information

Only available in DTV mode.

CI Information

When insert CI Module,display CI Information.

Software Update(USB)

1.Download the software to the usb device,then insert the usb device to the unit.
2.Press the menu button to select the CHANNEL menu.
3.Press the left/right buttons to select Software Update(USB) and then press the **OK** button to update software.
4.When the updating is completed,the unit will be reset to standby mode.
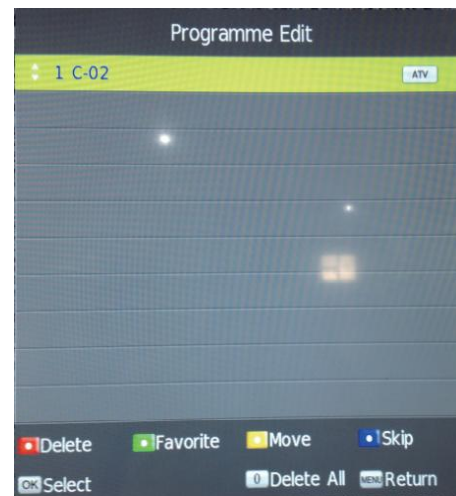
Lock Setting

1. Press the **Menu** button and then press the ▲▼ buttons to select the Lock menu.

2. Press the **OK** or ▾ buttons and then press the ▲▼ buttons to select the following feature options and then press the **OK** button.
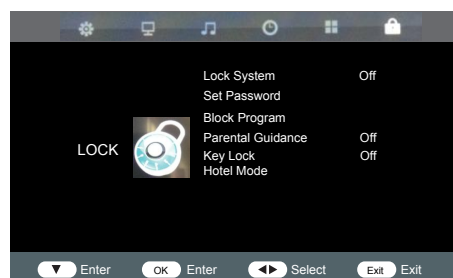
Lock System

1. Press the ▲▼ buttons to **Lock System** then press the **OK** button to confirm.

2. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu and then press the **OK** button to turn the Lock System **On**.

⚠️ · The default password is "**0000**".
· If you change the password, be sure to remember the new password! If you forget the new password, press the master password "**8899**".

Set Password: If you had already changed the password,enter the current password.

Block Program: This feature is available only for digital TV and the tuned-in channel must support it.

Parental Guidance: Off: turn off Parental Lock
4-18: turn on Parental Lock and set the age level that are permitted to watch the program.

Key Lock:Press the ▲▼ buttons to select the "Key Lock" option and then press ◄► to choose between the options ON or OFF.After selecting ON,the front panel buttons TV/AV/ Menu/CH+/CH-/VOL+/VOL- of the device will be locked.

Hotel Mode: Enter the Hotel Setting menu.

3. Press the **Menu** button to return back to the main menu.

4. Press the **Exit** button to exit the menu.

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Lock Setting

Lock System

Press the up/down buttons to select the "Lock System" option and than press the right button to choose between ON and OFF.

Set Password

Press the up/down buttons to select the "Set Password" option and then press   OK   to enable the menu.
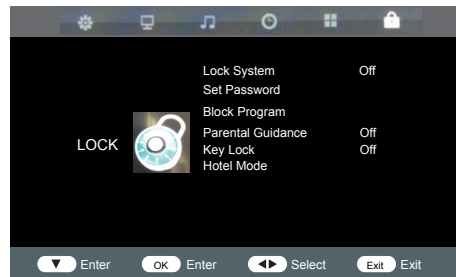
Block Program

Press up/down buttons to select the "Block Program".

Parental Guidance

Press the up/down buttons to select the "Parental Guidance" option and than press the right button to choose between ON and OFF.

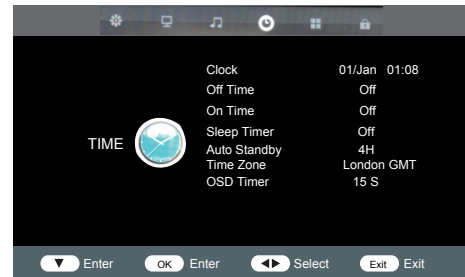## Key Lock

Press up/down buttons to select the "Key Lock ".

Hotel Mode

Press the up/down buttons to select the "Hotel Mode" option.

Time Setting

1. Press the **Menu** button and then press the ▲▼ buttons to select the Time menu.

2. Press the **OK** or ▾ buttons and then press the ▲▼ buttons to select the following feature options and then press the **OK** button.

	Clock	01/Jan 01:08
	Off Time	Off
	On Time	Off
TIME	Sleep Timer	Off
	Auto Standby	4H
	Time Zone	London GMT
	OSD Timer	15 S

▼ Enter   OK Enter   ◀▶ Select   Exit Exit

Clock

Press the **OK** button to set date and time.

Off Time

Press the **OK** button to set off time.

On Time

Press the **OK** button to set on time.

Sleep Timer

The sleep timer automatically switches the TV to standby after the preset time has elapsed.The clock will be set automatically when receiving a digital signal.Time must be set before using Sleep Timer function.

Press up/down buttons to select a period of time after which the TV automatically switches to standby mode: OFF/10/20/.../180/240 min and then press the **OK** button to confirm.The timer begains to count down from the number of minutes selected.

Auto Standby

The unit will automatically switch to standby mode 3/4/5/Off hours after the last time the remote control was used.A reminder screen will pop up and count down before the unit switches to standby mode.If you want to operate the TV for a long period of time,tun off the auto standby function by selecting Off.

Time Zone

When you select a Time Zone city,the TV time is set by the time off set information based on Time Zone and GMT which is received with the broadcast signal and the time is set automatically by a digital signal. Press the up/down/left/right buttons to select the desired time zone city and then press the **OK** button to confirm.(DTV mode)
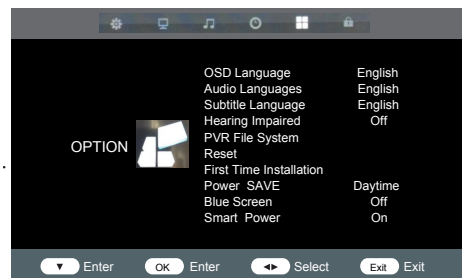
OSD Timer

Press up/down buttons to select the display time of the on-screen menu:5s/10s/15s/20s/25s/30s/Off and then press the **OK** button to confirm.

Option Setting

1. Press the **Menu** button and then press the ▲▼ buttons to select the Option menu.

2. Press the **OK** or ▾ buttons and then press the ▲▼ buttons to select the following feature options and then press the **OK** button.

```
OPTION      OSD Language          English
            Audio Languages       English
            Subtitle Language     English
            Hearing Impaired          Off
            PVR File System
            Reset
            First Time Installation
            Power  SAVE           Daytime
            Blue Screen               Off
            Smart  Power              On

    ▼  Enter    OK  Enter    ◄►  Select    Exit  Exit
```

OSD Language

Allows you to select the on screen display menu language.

Audio Languages

Select the audio languages.The availability of this function depends on the tuned-in channel.(can only be selected in DTV mode)

Subtitle Language

Select the subtitle language.The availability of this function depends on the tuned-in channel.(can only be selected in DTV mode)

Hearing Impaired

Allows you to show more information in subtitles for the hearing-impaired in some programmes(can only be selected in DTV mode)

PVR File System

Reset

Restores all settings to the factory defaults.

First Time Installation

This option allows you to reset the TV to the default factory setting.Once activated the TV will go to standby mode.

Power Save

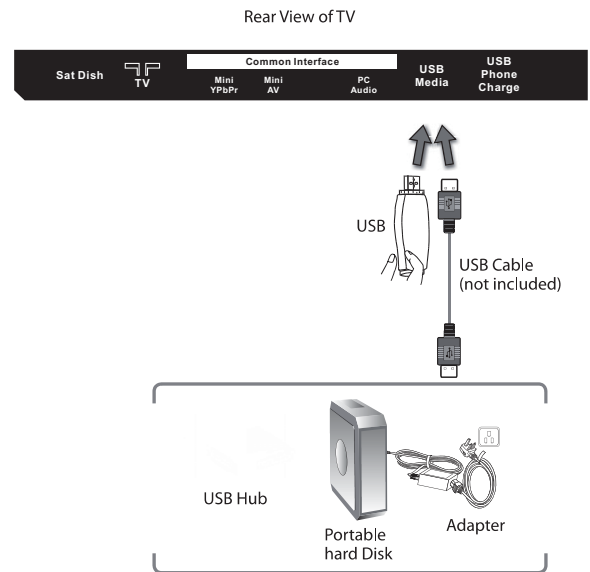Allow you to select among:DAYTIME/4Hrs(4-6Hrs)/6Hrs(6-10Hrs)

Blue Screen

Press left/right buttons to select ON or OFF

Smart Power

Automatically select DAYTIME during daylight hours and 4Hrs/6Hrs at night.

Connecting a USB Storage Device

1. Switch off the TV before connecting any USB storage device.

2. Connect your USB storage device to the USB port of your TV.

3. Plug the connected devices into the mains socket

4. Press the **POWER** button on of the TV or the ⏻ button on the remote control to turn on your TV.

5. Press the **SOURCE** button on the TV or the **SOURCE** button on the remote control to display the Source List. Use the ▲▼ buttons to select **USB** and then press the **OK** button to confirm.

Rear View of TV

| Sat Dish | TV | Common Interface | | | USB Media | USB Phone Charge |
| | | Mini YPbPr | Mini AV | PC Audio | | |

USB

USB Cable (not included)

USB Hub

Portable hard Disk

Adapter

⚠
- If a hard disk is used, make sure its mains adapter is connected to the mains supply.
- If a USB hub is used, make sure its mains adapter is connected to the mains supply as the total current consumption may exceed 500mA.
- The maximum supported storage space of the hard disk is 1 TB.
- The file system only supports HiSpeed FS, FAT16, FAT32, NTFS formats (NTFS Compressed files are not supported).
- If you want to store the video streaming of a DTV programme, the transfer rate of the USB storage device must not be less than 5MB/s, otherwise the picture and sound of the programme will be affected and a warning statement will be shown on the screen. If this happens, please upgrade your USB storage device.
- The TV screen will be blank temporarily as it will take time to start up and stabilise the connected hard disk. This is normal and the starting time may vary depending on the brand and the memory size of the connected hard disk.
- Disconnect the USB storage device if it is not in use.
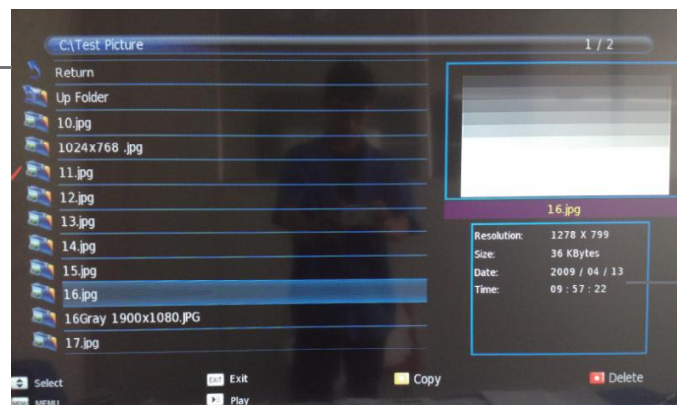- USB output: DC 5V ⎓ 500mA

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Multimedia Operation

Basic Operation

1. Press the SOURCE button on tje remote control to display the input source menu,select the USB source with the up/down buttons and press the **OK** button to enter the Multimedia menu below.

Input Source
DTV
Satellite
ATV
AV
YPbPr
PC
HDMI1
HDMI2
USB
OK ▢ OK

USB 2.0

PHOTO   MUSIC   MOVIE   TEXT

2. Press left/right buttons to select the files on the USB device(PHOTO,MUSIC,MOVIE,TEXT)to view or play.

Return to main menu

C:\Test Picture   1 / 2

Return
Up Folder
10.jpg
1024x768 .jpg
11.jpg
12.jpg
13.jpg
14.jpg
15.jpg
16.jpg
16Gray 1900x1080.JPG
17.jpg

Preview

16.jpg

Resolution: 1278 X 799
Size: 36 KBytes
Date: 2009 / 04 / 13
Time: 09 : 57 : 22

File Information

Select   Exit   Copy   Delete
MENU   Play

Press the up/down/left/right buttons to select and the **OK** button to activate the file or open folder.Press ▶ button to play the files in full screen mode.When in full screen mode press the **OK** button to show the navigation option menu on the bottom of the screen or press ■ stop button to return to files.

1.Photo
Photo viewing

Press left/right buttons to select the option on the menu,and press the **OK** button to activate.

Play: Play the photo.

Prev./Next: Go to on a picture/Go to the next picture.

Stop: Stop auto turning pages.

Repeat: Select the repeat mode from Repeat All, Repeat One,Repeat None.

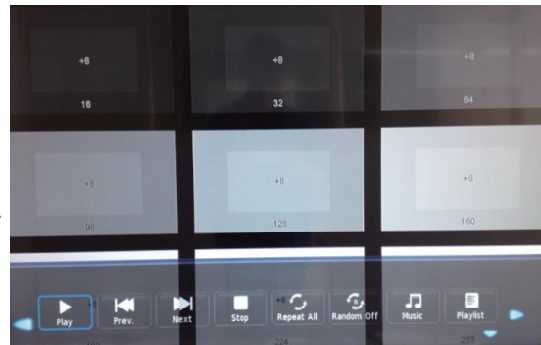**Music:** Play/Pause the background music of your choice.

Playlist: Display the playlist on the screen and select the photo of your choice.

Info: Display the information of the file.

Rotate: Rotate the photo clockwise/counterclockwise.

Zoom In/Out: Zoom In/Out of your photos.

Move view: Move the photo in Zoom out mode.

2.Music
Listen to music

Press left/right buttons to select the option on the menu,and press the **OK** button to activate.

Play: Play the music.
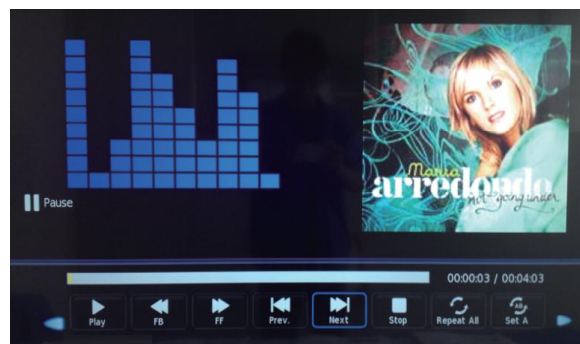
FB: Retreat quickly.

FF: Fast forward.

Prev./Next: Go to a song/Turn to the next song.

Stop: Stop playing.

Repeat: Select the repeat mode from Repeat All, Repeat One,Repeat None.

Play List: Display the playlist on the screen.

Info.: Display the information of the music file.

3.Movie
Watch a film

Press left/right buttons to select the option on the menu,and press the **OK** button to activate.

Play: Play the movie.

FB: Retreat quickly.

FF: Fast forward.

Prev./Next: Go to a video/Turn to the next video.

Stop: Stop playing.

Repeat: Select the repeat mode from Repeat All, Repeat One,Repeat None.

Aspect Ratio: Select the aspect ratio of the on screen display.

Move View: Moves the enlarged picture area.

4.Text
View text files

Press left/right buttons to select the option on the menu,and press the **OK** button to activate.

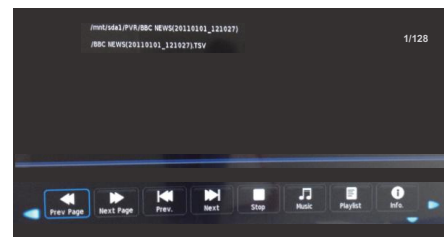Prev/Next page: Turn to previous/next page of the text.

Prev./Next: Turn to previous/next file.

Stop: Stop auto turning pages.

Music: Play/pause the background music of your choice.

Playlist: Display the playlist on the screen.

Info: Display the information of the text file.

Maintenance

Careful and regular cleaning can prolong the life of your TV.

1. Use a soft dry cloth to wipe away the dust from the screen and surfaces.

2. If the surfaces are extremely dirty, clean the TV with a cloth which has been dipped in a weak soapy water. Wring the cloth until it is almost dry, then use it to wipe the TV.

3. Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching the TV on.

⚠️ Never use alcohol, benzine, paint-thinner, cleaning fluid or other chemicals. Do not use compressed air to remove dust.
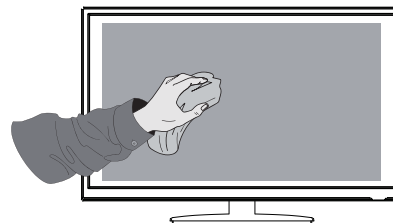
Hints and Tips

The TV does not operate properly.

The TV does not respond when pressing any buttons	• The TV may freeze up during use. Switch off at rear for a few minutes. Switch on again and try to operate it again as usual.
TV cannot be switched on	• Check that the TV is connected to the Solar panel. • Make sure all connected AV devices are switched off before switching on your TV.
The remote control does not work	• Check to see if there are any objects between the TV and the remote control causing an obstruction. Ensure that you are pointing the remote control directly at the TV. • Ensure that the batteries are installed with the correct polarity (+ to +, - to -). • Install new batteries.
Power is suddenly turned off	• Check the power of the TV. The battery may be discharged and make sure the solar panel is connected. • Check if the sleep timer is set. • Check whether the Auto Standby is activated.

The video function does not work.

No Picture & No Sound	• Check whether the TV is switched on. • Try another channel. The problem may be caused by the broadcaster.
Picture appears slowly after switching on	• This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No or poor colour or poor picture	• Adjust the settings in the **PICTURE** menu. • Try another channel. The problem may be caused by the broadcaster. • Check if the video cables are connected properly.
Horizontal / Vertical bar or picture shaking	• Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	• Station or cable channel may be experiencing problems, tune to another station. • Station signal is weak, reposition the aerial for better reception. • Check for sources of possible interference.
Lines or streaks in pictures	• Check aerial (Change the position of the aerial.)
No pictures when connecting HDMI	• Check if the input source is **HDMI**.
Picture appears in wrong ratio	• Adjust the **Aspect Ratio** settings in the **PICTURE** menu.

The audio function does not work.

Picture OK but no sound	• Press the **VOL** + / - buttons. • Sound muted? Press the **Mute** button. • Try another channel. The problem may be caused by the broadcaster.
No output from one of the speakers	• Adjust the **Balance** settings in the **SOUND** menu.
Unusual sound from Inside the TV	• A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.
No sound when connecting HDMI	• Check if the input source is **HDMI**.
Audio noise	• Keep the RF coaxial cable away from the other connected cables.

Password

Lost Password	• Select the **Change Pin Code** setting in the **FEATURE** menu, then enter the following master password "**8899**". The master password clears your previous password and allows you to enter a new password.

There is a problem in PC mode.

The signal is out of range (Invalid format)	• Adjust the resolution, horizontal frequency, or vertical frequency.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	• Use Auto configure or adjust clock, phase, or H/V position.
Screen colour is unstable or single colour	• Check the signal cable. • Reinstall the PC video card.

FAQs (Frequently Asked Questions)

Why have I lost some / all of my channels?	• It happens sometimes, if you have a weak signal. Usually it just means you'll need to rescan your digital box or TV. Don't worry, it easy to do. And once you've done it, you should get all the Freeview channels available to you. If problems persist you may need to get your aerial checked. Talk to your retailer or contact your local aerial installer.
Why do I get 'blocking' on my digital picture?	• In most cases, blocking is caused by a reception problem – either the signal is too weak or there is some kind of interference. Talk to your retailer or contact your local aerial installer. • Blocking can also be caused by a digital signal that is too strong. If you are still experiencing blocking and the signal is strong, consult your local aerial installer for advice.
No Signal	• Check that 5V antenna power is on in the Channel Menu.

Display Modes

The screen resolution has been optimised during production for the display modes listed below.

YPbPr Mode

Resolution	Vertical Frequency (Hz)	Aspect Ratio
480i: 720 x 480	60	4:3 / 16:9 / Zoom1 / Zoom2
480P: 720 x 480		
576i: 720 x 576	50	
576P: 720 x 576		
720P: 1280 x 720	50	
	60	
1080i: 1920 x 1080	50	
	60	
1080P: 1920 x 1080	50	
	60	

HDMI Mode

Resolution	Vertical Frequency (Hz)	Aspect Ratio
480i: 720 x 480	60	4:3 / 16:9 / Zoom1 / Zoom2 / Just Scan
480P: 720 x 480		
576i: 720 x 576	50	
576P: 720 x 576		
720P: 1280 x 720	50	
	60	
1080i: 1920 x 1080	50	
	60	
1080P: 1920 x 1080	50	
	60	

TV Specifications

Panel System	22 inch LED Panel
Display Resolution	1920 (H) x 1080 (V) pixels
Television System	DTV T2 DVB S2 ATV (PAL / SECAM)
Brightness	200 cd/m²
Contrast Ratio	1000:1
Screen Size (measured diagonally)	Approx.55cm(22inch)
Operating Temperature	0°C - 50°C
Vesa Wall mounting size / Screw size	100 x 100 mm / M4 x 8
Speaker Power	1W + 1W
Dimension (W x D x H)without base	509 x 86 x307mm
Dimension (W x D x H) with base	509 x 165 x341mm
Weight (Net)	2.95 kg

Features and specifications are subject to change without prior notice.

This TV has been tested against the European standards for Energy efficiency using the standard signals and conditions specified in the standard. The result is shown on the energy efficiency label. This is the energy that you would expect the TV to consume under normal working conditions when measured over a period of time. At some times the TV will use more power than this and at some times less. The factors that cause this fluctuation are the actual signals being received, and the Volume setting. Generally speaking the mains voltage, brightness / contrast settings and other settings have a very small effect on energy usage and can to all intense and purposes be ignored. The difference between the power consumed when receiving a high bit rate channel with the volume at max and a low bit rate channel with volume at zero is usually less than 3 watts.

Safety Warnings

- Read all the instructions carefully before using the unit and keep them for future reference.
- Retain the manual. If you pass the unit onto a third party make sure to include this manual.

Damage
- Please inspect the unit for damage after unpacking.
- Do not continue to operate the unit if you are in any doubt about it working normally, or if it is damaged in any way - switch off.

Location of Unit
- The unit must be placed on a flat stable surface and should not be subjected to vibrations.
- Do not place the unit on sloped or unstable surfaces as the unit may fall off or tip over.
- This unit is designed for indoor use only.

Temperature
- Avoid extreme degrees of temperature, either hot or cold. Place the unit well away from heat sources such as radiators or gas / electric fires.
- Avoid exposure to direct sunlight and other sources of heat.

Naked Flames
- Never place any type of candle or naked flame on the top of or near the unit.

Moisture
- To reduce the risk of fire, electric shock or product damage, do not expose this unit to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, should be placed on the unit.
- If you spill any liquid into the unit, it can cause serious damage. Switch it off immediately and consult your dealer.

Ventilation
- To prevent the risk of electric shock or fire hazard due to overheating, ensure that curtains and other materials do not obstruct the ventilation vents.
- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.
- Make sure that there is a gap of at least 10 cm on both sides and a gap of 20 cm at the top.
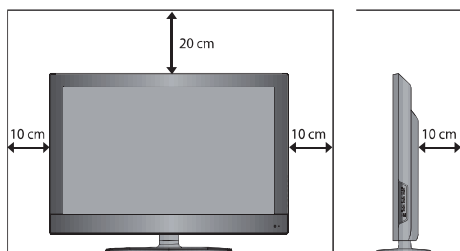
Interference
- Do not place the unit on or near appliances which may cause electromagnetic interference. If you do, it may adversely affect the operating performance of the unit, and cause a distorted picture or sound.

Optimum viewing
- View the unit in moderate light to prevent eye strain. It is recommended to watch the unit from a distance 3-7 times that of the screen height.

LED screen
- The LED screen is manufactured using high-precision technology. However, some tiny black points and / or bright points (red, blue or green in colour) may constantly appear on the LED screen. These points are generated in the manufacturing process and are normal.

Standby

- The ⏻ button on the remote control does not switch off the unit completely. The unit will continue to draw electricity from the battery while in standby. In the interests of safety and to avoid unnecessary energy consumption, never leave the unit in standby while unattended for long periods of time, e.g. overnight, while on holiday or while out of the house. Switch it off at the rear.

Batteries

- Batteries used in the remote control for this unit are easily swallowed by young children and this is dangerous.

- Keep loose batteries away from young children and make sure that the battery holder tray is secure in the remote control. Seek medical advice if you believe a cell has been swallowed.

- Please dispose of batteries correctly by following the guidance in this manual.

Supervision

- Children should be supervised to ensure that they do not play with the unit and the remote control.

- Never let anyone especially children push anything into the holes, slots or any other openings in the case - this could result in a fatal electric shock.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the unit's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the manual accompanying the unit.

Service

- To reduce the risk of electric shock, do not remove screws. The unit does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.

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

Maintenance

- Switch off at rear before cleaning

- Do not use any type of abrasive pad or abrasive cleaning solutions as these may damage the unit's surface.

- Do not use liquids to clean the unit.

Important Note

This TV is fitted with the latest ECO friendly power saving technology. If whilst viewing the TV the remote control is not used for a period of 4 hours, the Auto Standby feature will operate and power down the TV. A warning message will be displayed to inform you that the TV is about to power down.

Disable this feature by setting the AUTO POWER OFF option in the main Menu / FEATURE to NEVER

Packaging materials are not toys. Please keep away from children. Plastic bags can cause suffocation when pulled over the head.

Waste Electrical Recycling

Correct disposal of Product

This sign indicates that this product may not be disposed of with your regular household waste. The recycling and separate collection of such products is your responsibility. Please drop off the above mentioned waste at a designated place for recycling waste electrical and electronic equipment. If you do not know where to drop off your waste equipment for recycling, please contact your local city office or household waste collection service.

The crossed out wheeled dust bin symbol indicates that batteries and /or accumulators must be collected and disposed of separately from household waste.

Hg Cd Pb

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemicals symbols for lead(Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries thus help to prevent potential negative consequences for the environment and human health.

Pb

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased this product.

This appliance complies with European Safety and Electrical directives.

It fullfils the following EU regulations:

EN 55022:2006+A1:2007
EN 55013:2001+A1:2003+A2:2006
EN 61000-3-2:2006+A1:2009+A2:2009
EN 61000-3-3:2008
EN 55024:1998+A1:2001+A2:2003
EN 55020:2007

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If your TV has a fault please call 0704500500