

**HD Digital Terrestrial Set Top Boxes**  
**User Manual**



- Features**
- Fully DVB-T compliant
  - USB PVR ready for recording
  - MPEG-4 AVC/H.264 HP@L4
  - Favourite service list editing
  - HDMI Lead Included
  - Parental lock facility
  - IR remote control
  - 240V plugpack included (A 2809A only)
  - 240V Mains Power cable (A 2856A only)
  - HDMI and composite outputs
  - 7-day Electronic Program Guide (EPG)
  - Multi-language subtitle output supported
  - 12V DC operation suitable for use in vehicles (A 2809A only)

**Overview**

These terrestrial set top boxes feature composite and HDMI outputs for HD televisions or connection to a PC monitor or projector. The A 2856A model runs off a 240V mains voltage power cable. The A 2809A model is powered by a 12V DC Plugpack (included) and is great for caravans, RVs and vehicles as its also incredibly compact, under 12cm wide! USB connection allows recording direct to a USB stick, plus playback of photo slideshows. This allows you to mount the set top box inside a cabinet or behind the TV itself.

**Specifications**

System	Standard	ETSI EN 302 755 (DVB-T2)
Tuner	Input Frequency	VHF: 170-230MHz UHF: 470-860MHz
	RF Input Level	-78 ~ -20dBm
	RF Bandwidth	7MHz and 8MHz
	Modulation	QPSK, 16QAM, 64QAM, 256QAM
Video	Decoder Format	MPEG4 AVC/H.264 HP@L4 MPEG2 MP@MPHL
	Output Format	480i/480p/576i/576p/720p/1080i/1080p
	Output Port	HDMI
Audio	Decoder Format	MPEG-1 (layer 1,2,3), WMA, AC3
	Audio Output	Coaxial
USB 2.0	Supported Capacity	500GB
	Supported Media	MP3, WMA, JPEG, BMP, AVI, MKV
Power	Supply Voltage	220-240V ~ 50/60Hz
	Power Consumption (Maximum)	<10W
	Power Consumption (Standby)	<1W

**Trouble Shooting**

Problem	Potential Reasons	What to do
No Picture	Power isn't connected	Connect the power
	The power switch is not on	Switch on the power
Screen Shows "No Signal"	DVB-T cable not connected	Plug in the DVB-T cable
	Aerial cable is faulty	Check aerial cable and connections
No sound from speaker	Sound on mute	Turn off mute function
	No or incorrect connection with audio cable	Connect the audio cable correctly
Only sound, no image on screen	Resolution not supported by TV set.	Press V-FORMAT button to change resolution.
	No/incorrect connection	Make sure cables are connected properly
	The program is a radio program	Press <TV/RADIO> key to shift into TV mode
Remote Control is not responding	The battery is flat	Change battery
	Remote Control is not facing or close enough to the Set Top Box	Adjust the position of the Remote Control and move closer to the unit
Picture is breaking up	The signal is too weak	Check aerial cable and connections

**DTV Mode**

**1. Initial Set up**

First installation shall setup some important configurations. It contains several options like Language, Country (area), Timezone, Active Antenna, LCN. This is shown in the figure on the right.

**2. Electronic Program Guide (EPG)**

You can press the [EPG] button on the remote controller to enter into the EPG page to know more about the programs to be played. As shown in the figure to the right there are several modes; Now/Next Mode, Daily Mode, Weekly Mode. The default mode is Now/Next. Press the red button to switch modes. Press [EXIT] or [EPG] buttons to quit the EPG Menu.

There are 7 parts

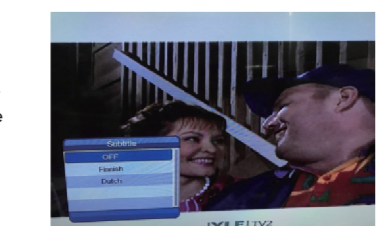
- Label 1: Current EPG status
- Label 2: Current time and program information
- Label 3: Detail date list
- Label 4: Channel List. By pressing the [UP/DOWN] button you can switch through the different channels. By pressing [PAGE +/-] button you can switch pages
- Label 5: Current Play program information (Now Event), Pressing the [UP/DOWN] button will switch between NOW and NEXT status
- Label 6: Program Information of next time slot (Next Event)
- Label 7: Button Hint information
  - Red Button: Enter into daily mode
  - Green button: Record label 5 program of bookmark label 6 program.

Press the [INFO] button to show more detailed information

**DTV Mode**

**3. Subtitles**

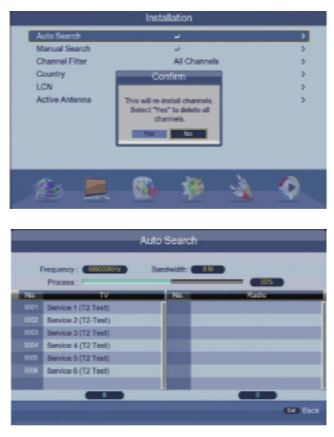
Subtitles are to off by default. To set subtitles press the [SUB-T] button to enter into the subtitle menu. Shown in the figure to the right. To select the preferred language press the [UP/DOWN] button.



**Main Menu Introduction**

**1.1 Auto Search**

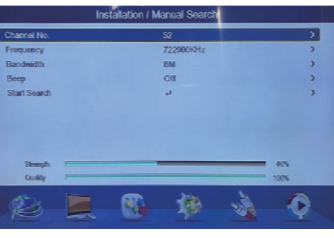
Auto search allows you to automatically select a TV/radio programme dependant on your locations frequency. The system will search through the programs and save them automatically.



**1.2 Manual Search**

Manual search allows you to search for programs by their frequency.

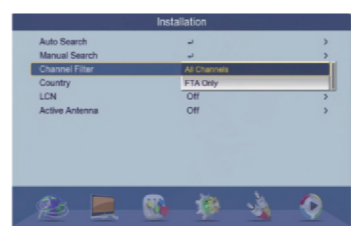
- Select manual search in the installation menu screen shown in the top right image.
- There are 3 configurations;
  - (1) Channel number: Each channel number corresponds to a specific frequency. Country location may make the channel numbers differ so you can input the numbers directly.
  - (2) Frequency (KHz) The default frequency is 177143KHz.
  - (3) Bandwidth: Select bandwidth between 6MHz, 7MHz and 8MHz. The default is 7MHz.
- Press the [start Search] button the begin the search
- When your search has finished the system will save program and go back to installation menu.



**Main Menu Introduction**

**1.3 Channel Filter**

Press the [UP/DOWN] button to switch to a different item. The press the [ENTER] button to select it. Channel filter only has two options; All channels or FTA only (Free to Air).



**1.4 Country**

The [Country] option on the installation menu can be used to select the country.

**1.5 Logic Channel Number (LCN)**

The [LCN] option on the installation menu is used to set the logic channel number to open or closed.

**1.6 Active Antenna**

The [Active Antenna] option on the installation menu is used to set the active antenna to On/Off. The system will shut down power when it is set to on and the antenna shorts out.

**2. Channel Menu**

The Channel menu takes you to channel manager and favourite list. The channel manager is where you will find the system functions. Favourite list is where you can save programs into different lists.



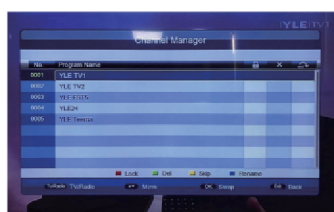
**Main Menu Introduction**

**2.1 Channel Manager**

The channel manager menu includes the following functions; program delete, program skip, program lock and rename. The system will remind you "no program" when no program has been selected.

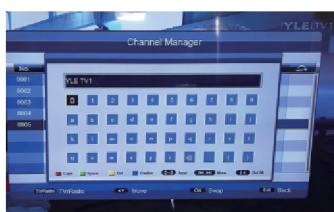
- (1) Delete Program: Press the [UP/DOWN] button to select program, the press the green button and input the default password. System will delete it when you quit channel manager menu.
- (2) Modify Program Number: Press the [UP/DOWN] button and [ENTER] button to select it. The press [UP/DOWN] to move current program to the desired position and press the [ENTER] button again to save modification.
- (3) Rename Program: Press the [UP/DOWN] button to select the program and then press the blue button which then take you to the modification menu shown on the right. Press the [ENTER] button to save the modification.
- (4) Lock Program: Select the program and press the red button. Once you enter the default password 0000 the program will be locked.

To quit the channel manager menu simply press the [RECALL] button. To get back to the program play menu press the [EXIT] button.



**2.2 Favourite List**

There are 4 favourite lists. Pressing the four colour buttons can switch between the different lists. Press the [OK] button to add a program into the favourite list. One program can be added into the different lists. Press the [EXIT] button to quit the favourite list menu.



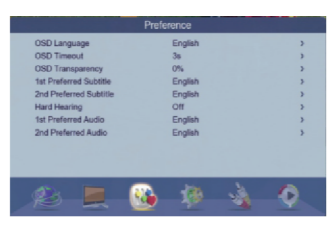
# Main Menu Introduction

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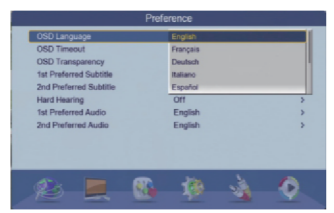
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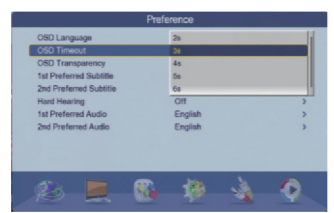
**3. Preference Menu**  
The preference menu is used to set language and audio configuration.



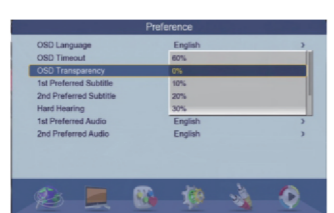
**3.1 OSD Language**  
OSD Language is used to set menu language.



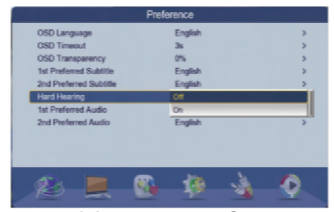
**3.2 OSD Timeout**  
OSD timeout is used to set the display time of the menu.



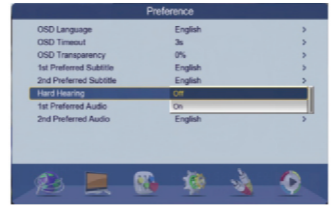
**3.3 OSD Transparency**  
OSD Transparency is used to adjust the transparency of the Main Menu.



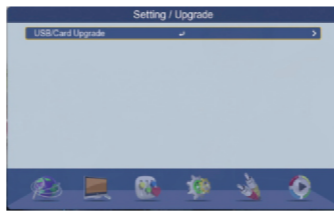
**3.4 Hard Hearing**  
The hard hearing selection will allow you to set special subtitles for hearing impaired users. It is dependant on if the broadcast operator supports this function.



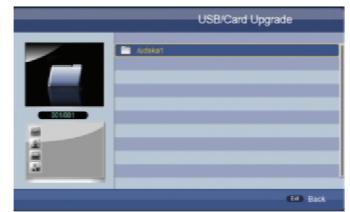
**3.5 Setting**  
By selecting setting you are able to set system configurations.



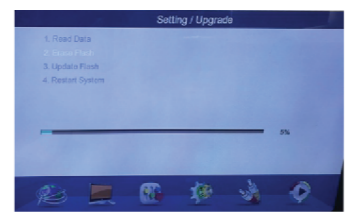
**3.6 Upgrade**  
The Upgrade menu is where users go to complete software upgrades.



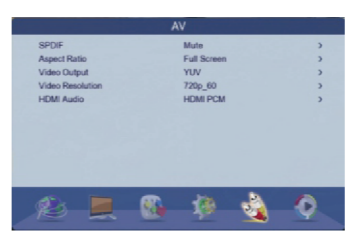
**3.7 USB Upgrade**  
Select USB Upgrade and press the [OK] button to enter the USB update menu. If a USB device is inserted the menu will display like the image to the right.



If you press the [OK] button you can enter into a folder. Select rom.bin and press the [ENTER] button to start a USB update shown in the figure to the right. Once the USB upgrade is finished the system will restart automatically.



**3.8 AV Setting**  
The AV setting is used to set video output configurations including; resolution, output format etc.



**3.9 Aspect Ratio**  
The aspect ratio setting is used to set the length width ratio of video.



**3.10 Video Resolution**  
The video resolution setting is used to set video output resolution and refresh the frequency.



**3.11 HDMI Audio**  
The HDMI audio setting is used to set HDMI audio output to either HDMI Mute/HDMI PCM/HDMI RAW.

