

Vu⁺ Ultimo

User Manual

Your **Smart** Linux TV Player

English

- Large Graphic Type VFD Display (256x64 pixels)
- Triple Pluggable Tuner System for DVB-S2 or DVB-C/T
- Advanced Blind Scan
- 1GB NAND Flash Memory
- QWERTY Keyboard RCU
- High Speed Wi-Fi USB Dongle (300Mbps)
- Temperature Sensor based Automatic FAN Speed Control



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(A) PRECAUTION!!!

This Product has been designed and manufactured in compliance with EU consumer safety requirements (CE). Please read the following safety precautions carefully.

1. Connecting Power

- This product operates only in the range of AC100-240V and 50Hz/60Hz. Please check first your power supply to see if it fits this range.
- Please be noted that you need to disconnect from the mains before you start any maintenance or installation procedures.
- Make sure that the power cord is placed in a position where it is easy to unplug it from the mains in an emergency.

2. Overloading

- Do not overload a wall outlet, extension cord or adapter as this may cause electrical fire or shock.

3. Liquid

- This product is not water-proof and should not be exposed to dripping, splashing, or any type of liquid.
- No objects filled with liquid such as base shall be placed on the product.
- Please do not clean the product with wet cloth, which may cause a short circuit.
- No wet objects should be placed near the product.

4. Ventilation

- Allow a sufficient space between the product and other objects to make sure air ventilation of the product.
- Do not block the top or rear of the product with an object, which will close the ventilation holes and lead to a high temperature of the system. This may cause a failure of the product.
- Do not stack other electronic devices on top of the product.
- Do not insert any kind of pointed objects like screw, gimlet, etc. into the ventilation holes of the product. This will damage the product.

5. Connecting the Satellite Cable.

- Disconnect the power of the product before you connect the satellite cable to the product. Otherwise, it may cause damage to the LNB.

6. Grounding

- The LNB must be earthed to the system earth for the satellite dish.

7. Location

- Place the product indoor.
- Do not expose the product to rain, sun or lightening.
- Do not place the product near any heat appliances as a radiator.
- Ensure that there is more than 10 cm distance from any electrical devices and wall.

8. Lightening, Storm or Not In Use.

- Unplug the product and disconnect the antenna cable during a thunderstorm or lightening, especially when left unattended and unused for a long period of time. This will prevent possible damages from power surges or lightening.

9. Replacement of Parts

- Unauthorized part replacements, especially by one who is not a qualified technician may result in damage to the product.
- Ensure that when part replacements are necessary qualified technicians perform the task using the components specified by the manufacturer.

10. Hard Disk Drive

- Do not move the product or turn the power off suddenly while the Hard Disk Drive (HDD) is still running. This may result in damage to the HDD and thus the system.
- The company shall not be liable for any corruption of data on the HDD caused by careless use or misuse of users.

11. Battery

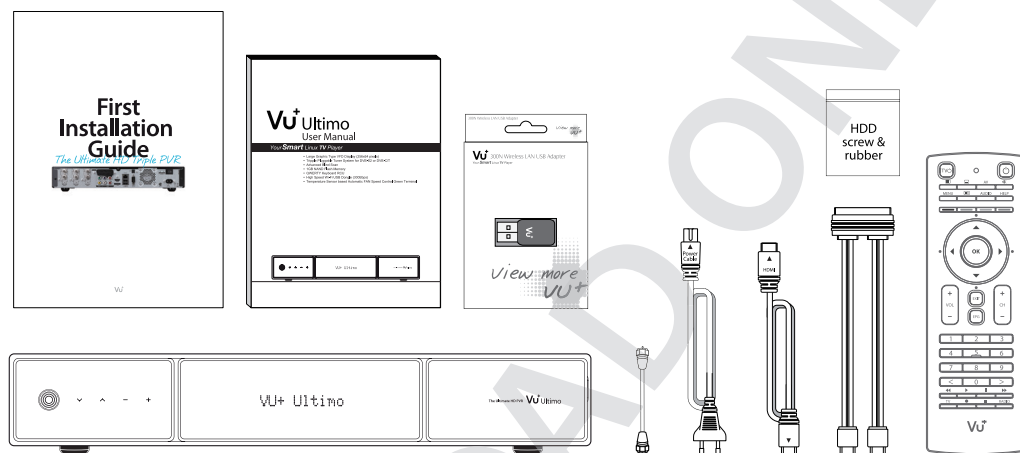
- There is danger of explosion if batteries are incorrectly replaced.
- Replace batteries only with the same or equivalent type.



- "WEEE" Symbol instructions.

This product should not be disposed with other house hold wastes at the end of its working life. Please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. This will help prevent harm to the environment or human health from un-controlled waste disposal.

(B) Packaging Contents



Please check all package contents before using your product.

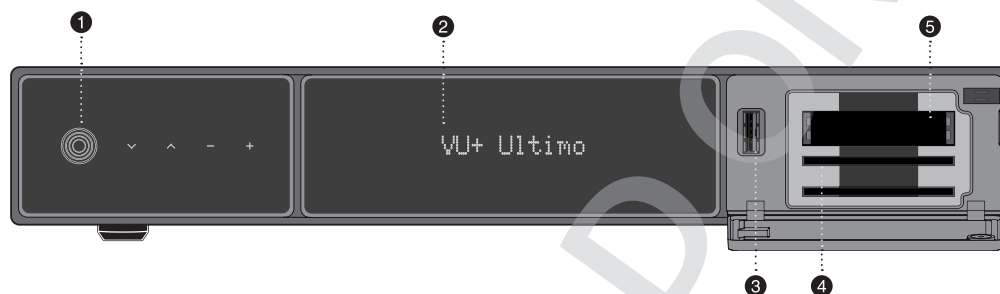
- Ultimo RCU (with two coin batteries inserted)
- User Manual
- First Installation Guide
- HDMI cable
- Power cable
- Loop-through cable (for Satellite only)
- SATA cable
- HDD mount screws and rubber washers

NOTE : Two coin batteries(2xCR2032) are used for the remote control.
Please pull out the plastic battery cover to use the remote control.



(C) Product Descriptions

● Front Panel



① Buttons (STANDBY, Ch-/+, Vol-/++)

② Display

Displays the current menu and program information.
Large Graphic VFD(256x64 pixels)

③ USB Host

Connects to the USB memory stick or external HDD.

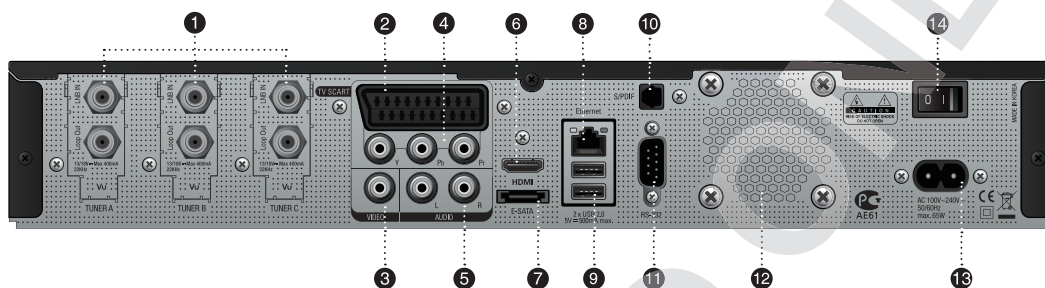
④ Smartcard reader slot

Two Smartcard slots are provided.

⑤ CI Module slot

Two CI module slots are provided.

● Rear Panel



- ① **Three Pluggable Tuner Slots**
Pluggable Type DVB-S2 and DVB C/T Hybrid Tuner available.
- ② **SCART**
One SCART connector is provided for TV using SCART cable.
- ③ **Video output**
Connects to TV using RCA cable(composite YPbPr)
- ④ **Component (YPbPr)**
Connects to TV using a component cable
- ⑤ **Audio output**
Connects to TV using RCA cable.
- ⑥ **HDMI**
Connects to TV using a HDMI cable for both audio and video signals.
- ⑦ **e-SATA**
Connects the external HDD using e-SATA cable.
- ⑧ **Ethernet**
Connects the PC or another set top box of Vu+.
- ⑨ **USB**
Connects the USB memory stick or external HDD.
- ⑩ **S/PDIF**
Connects to a digital audio system using S/PDIF cable.
- ⑪ **RS232**
RS232 data port is provided.
- ⑫ **FAN**
- ⑬ **Power Inlet**
Connects the detachable power cord.
- ⑭ **On/Off Switch**
Powers on/off.

(D) Conditional Access

Amongst the channels that are scanned via Vu+, some channels can be properly tuned in only with the corresponding Smartcard and/or CAM (Conditional Access Module). Vu+ provides two Smartcard Reader slots and two Conditional Interface slots and users need to purchase those Smartcards and CAMs that are required for viewing such subscription based services.

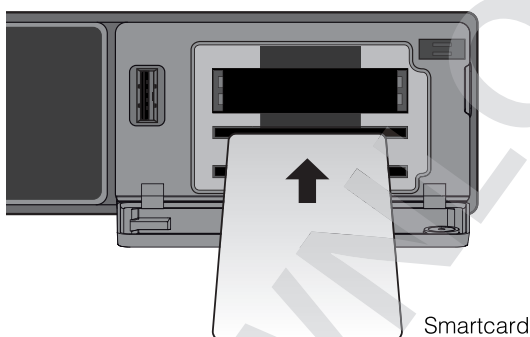
Insertion of Smartcard

Vu+ supports Xcrypt. Users need to buy only these Smartcards without having to buy additional CAMs to watch those channels that are encrypted in Xcrypt.

- ① Open the door on the left side.
- ② Insert Xcrypt Smartcard as in the following instruction.
- ③ Make sure that the Smartcard remains inserted while viewing.

NOTE : Insert the card while the smart card IC is downward.

Insertion

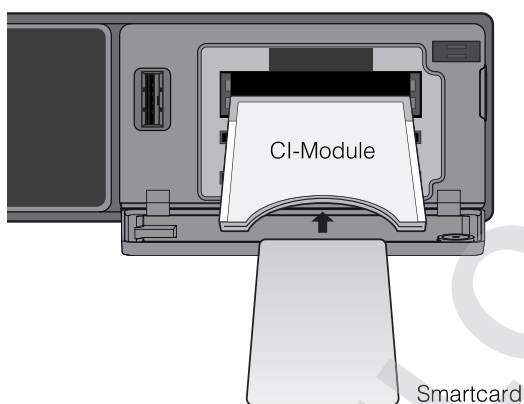


Insertion of CAM (Conditional Access Module)

There are several Conditional Access Systems (CAS), other than Xcrypt that Vu+ supports. To be able to watch channels that are encrypted in such CAS as Nagravision, NDS, Irdeto, Viaccess, etc, users need to purchase a CAM that is corresponding to each CAS, as well as Smartcard to decrypt those encrypted channels.

- ① Insert a Smartcard into the CAM as in the below picture.
- ② Once the Smartcard inserted into the CAM, insert the CAM into the CI slot.
- ③ Make sure that the CAM remains inserted while viewing.

Insertion



(E) Remote Control

Ultimo Remote Control(RCU) is a universal and QWERTY keyboard RCU and users can control Ultimo and TV. The double sided design of Ultimo RCU makes typing on TV easier than ever.

Please refer to **IV. System Configuration 2.9 Remote Control Unit Set-up** section for more explanation.

① TV Power

Once configured for TV remote control, this button is for TV power on/off.

② STB Power

When the STB is turned on, normal press of this button puts the STB into standby mode instantly. When the STB is turned off, normal press of this button turns the STB on instantly. Long press activates Standby /Restart menu.

③ Teletext

Displays the teletext information of the current channel if the channel provides subtitles.

④ Subtitle

Displays the subtitle of the current channel if the channel provides subtitle.

⑤ AV

This button is used when selecting video source of TV.

⑥ Mute

Silences the audio temporarily.

NOTE : when Teletext is activated,  key is also used when toggling between the Teletext page and the live mode.

⑦ Menu

Displays the main menu.

⑧ Recording List

Displays the list of recordings stored on the internal HDD if any.

⑨ Audio

Displays the audio track option to choose (e.g. ACS, Stereo).

⑩ Help

Displays major important operation methods of Vu+. This provides users with a quick guide of using Vu+.

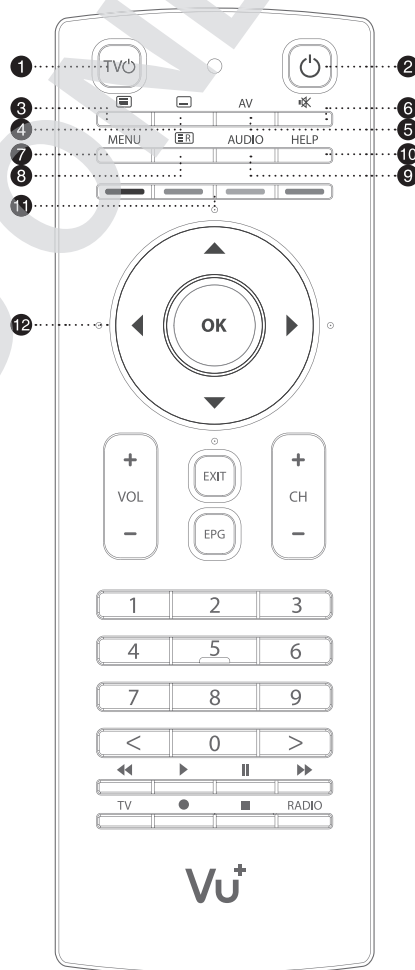
⑪ Color Keys

Each key is assigned a specific function that may be different in each menu.

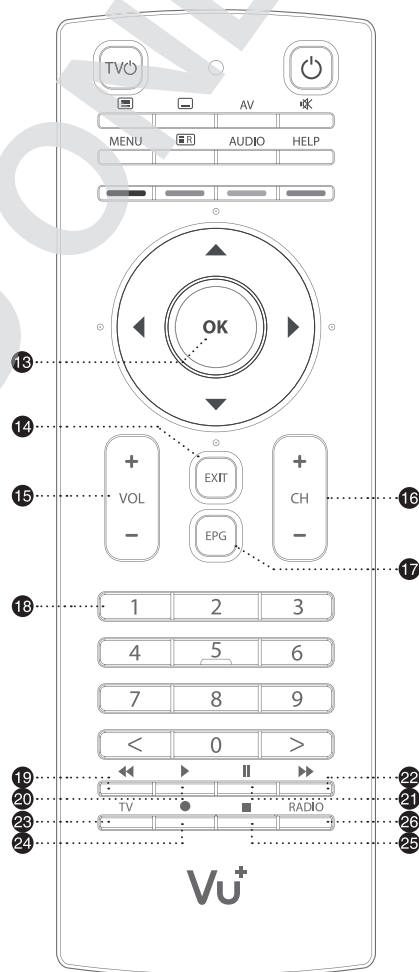
- Red – mainly used for REC, Cancel, etc.
- Green – mainly used for OK
- Yellow
- Blue

⑫ Navigation Keys

Navigates up/down and left/right on the menu options. Up/down keys are used to call up the channel list.



- ⑬ **OK**
Confirms the selected menu option.
- ⑭ **EXIT**
Exits the current menu option into the live mode, or switches one step back of the menu.
- ⑮ **Volume + / -**
Adjusts the audio volume.
- ⑯ **Channel + / -**
Navigates through the scanned channel list.
- ⑰ **EPG**
Displays the Electronic Program Guide (EPG) information if provided.
- ⑱ **Numeric Keys**
Enters a channel number or numbers required to be input according to menu options.
- ⑲ **Fast Rewind**
Fast rewinds at up to 128 times faster than the normal speed (x2 / 4 / 8 / 16 / 32 / 64 / 128).
- ⑳ **Play**
Plays the selected file (e.g. recording) at the normal speed.
- ㉑ **Pause**
Pauses the live program or recording play.
- ㉒ **Fast Forward**
Fast forwards at up to 128 times faster than the normal speed (x2 / 4 / 8 / 16 / 32 / 64 / 128).
- ㉓ **TV**
Displays the TV Channel list.
- ㉔ **Recording**
Displays instantly the recording menu.
- ㉕ **Stop**
Stops playing of a recording and goes to the live mode.
- ㉖ **Radio**
Displays the Radio channel list.



27 Unlock

This button is used to unlock the operation of keyboard.

Any touch on any of the buttons on the remote control side is to lock the operation of keyboard.

- To unlock the keyboard - Press the unlock.
- To lock the keyboard - Press any button on the remote control side.

28 FN

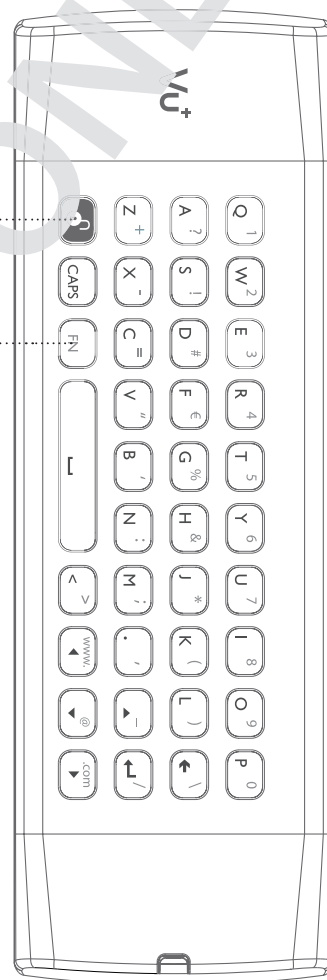
Function button to activate function buttons in blue.



(Remote control side)



(Keyboard side)



NOTE : Two coin batteries (CR2032) are used in the remote control.

The estimated battery lifetime is around 1year. To replace batteries use a screwdriver to pry open the lid.

(F) Main Features

- 405 MHz MIPS Processor
- Linux Operating System
- Media Player
- Downloadable Plug-ins supported
- 2 x Smartcard Readers (Xcrypt)
- 2 x Common Interface
- MPEG2 / H.264 Hardware Decoding
- Three pluggable tuner system for DVB-S2 and/or DVB C/T hybrid tuner.
- Large graphic type VFD - 256x64 pixels
- 1GB NAND Flash / 512 MB RAM
- External SATA supported
- 10/100MB Ethernet Interface
- 3 x USB 2.0
- RS232
- HDMI
- Composite Video / Component Video
- 1 x SCART
- SPDIF for digital bit stream out (optical)
- EPG supported
- Automatic & Manual Service Scan supported
- Multiple LNB control (DiSEqC) supported
- Skin change supported
- Stable SMPS integrated
- Automatic temperature sensor based FAN speed control system.

(G) Technical Data

Vu+ Technical Specifications		
Front Panel	Display	256x64pixel large graphic VFD with status icons displaying channel names and program information
	Smart card slot	2
	Common Interface	2
	USB 2.0	1
	Key	Ch+/-, Vol+/-, Standby
Rear Panel	Power switch	1
	Sat-IF input/output	3 x F-type (or DIN) Socket
	Connection TV	1 x Scart socket
	Video output (analogue)	3 x Cinch socket(Y/Pb/Pr) / 1 x Cinch-socket
	Video/audio output (digital)	1 x HDMI
	Audio output (analogue)	2 x Cinch socket
	Audio output (digital)	Standard optical (SPDIF)
	USB 2.0	2
	eSATA	1
	Ethernet	1
	RS 232	1
Power	Mains voltage	AC100-250V / 50-60Hz
	Power consumption (Max./typ. operation/stand-by)	65/25/1W
RF	RF range	950-2,150 MHz
	Modulation, FEC, de-multiplexer	DVB-S/DVB-S2 standard
Video	Video resolution	CCIR 601 (720 x 576 lines), 576p, 720p, 1080i
	Video decoding	MPEG-2, MPEG-4 compatible
	Input data rate	2-45 MSymb/s
	S/N	> 53 dB
Decoding	Decoding	MPEG-4 (AAC-HE), MPEG-1, Layer 1, 2 and 3
	Sampling rate	32/4.1/48 kHz
	S/N	> 65 dB
LNB	LNB supply (horiz./vert.)	14/18V / Max.400mA
	Control signal	22kHz ; ToneBurst ; DiSEqTM1.0/1.1/1.2
General	Dimensions (W x H x D)	380 x 290 x 60 mm
	Weight (without HDD)	3kg (Without HDD)

NOTE : ⓘ means Remote control operation order.

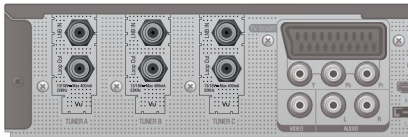
I. Installation of Vu+

This chapter will guide you through the whole installation process of Vu+. Please read each section carefully to make sure that the system runs properly.

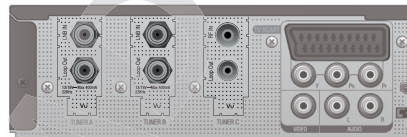
1. Connecting Signal Cable

Vu+ Ultimo is designed to integrate three pluggable tuners. For the best use of Vu+ Ultimo the following tuner combinations are recommended.

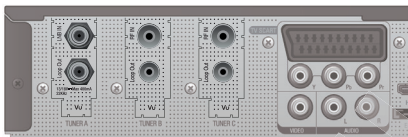
A. DVB-S2 + DVB-S2 + DVB-S2



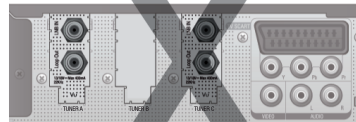
B. DVB-S2 + DVB-S2 + DVB-C/T



C. DVB-S2 + DVB-C/T + DVB-C/T



NOTE : Using tuner A & C without tuner B is not supported.

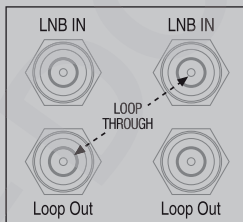


NOTE : Loop-through connection

Instead of using two or three separate signal cables, it is also possible to connect cables in loop-through mode.

example A.

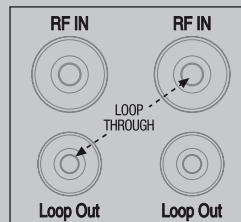
If two DVB-S2 tuners are mounted.



A loop-through cable for satellite is included in the accessory box.

example B.

If two DVB-C/T tuners are mounted.



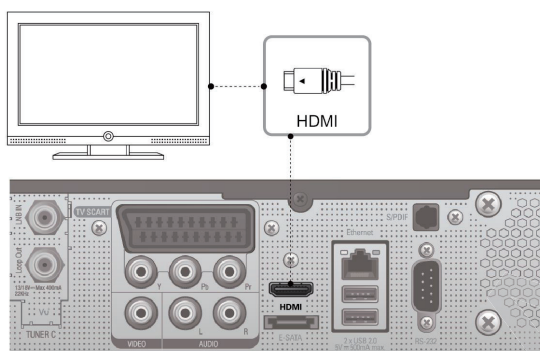
You need to purchase a loop-through cable for DVB-C/T tuner.

2. Connecting the TV

Vu+ provides a variety of audio/video connection methods.

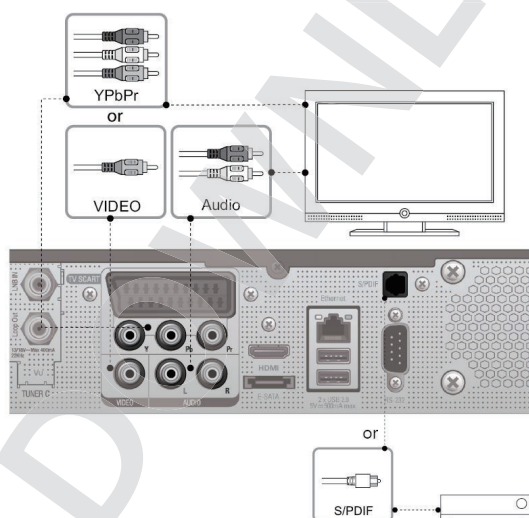
A. Connecting TV via HDMI cable

For the sake of the best picture quality, especially for digital TV, HDMI connection is recommended. Most HDTVs have HDMI connectors to ensure the highest picture quality. In the rear panel of Vu+ one HDMI connector is available for this purpose. Connect your TV to Vu+ using a HDMI cable as follows.



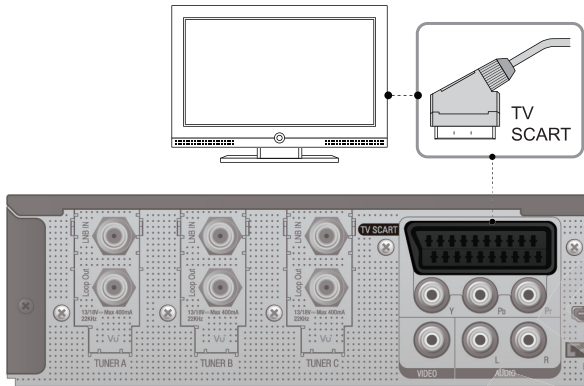
B. Connecting TV via Composite or Component connection

Vu+ provides Composite and Component connectors for both audio and video. Connect your TV to Vu+ as follows:



C. Connecting TV via SCART cable.

In case your TV is analogue TV, SCART cable is the most common method. Connect your TV to Vu+ using SCART cable as follows.



3. Connecting Power

A power cord is provided as one of the basic accessories of Vu+.

- ① Connect the power cord to the connector at the rear panel of Vu+.
- ② Connect the power cord to a power outlet.
- ③ Turn on the power switch at the rear panel.

NOTE : AC input condition

- Nominal Voltage Range: 100 – 250 VAC
- Maximum Voltage Range: 90 – 264 VAC
- Nominal Frequency: 50 / 60 Hz
- Maximum Frequency Range: 47 – 63 Hz

NOTE : ⓘ means Remote control operation order.

4. Power ON/OFF

[ⓘ : Press Power ⓘ key / Press MENU ⓘ > Select Standby/Reset]

There are several ways to turn your Vu+ ON or OFF

• Complete Power Shutdown

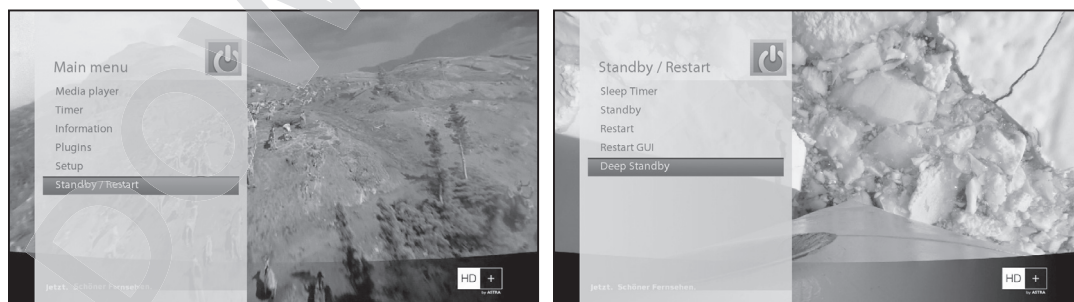
There is a Power Switch in the rear panel and once it is ON, you do not need to turn it on or off each time. It takes a longer time to boot the system if you turn it off by this switch.

• Standby Mode

POWER key is normally used to turn the power of Vu+ on or off. If you press **POWER**, it instantly switches your Vu+ off or on. In this mode, the system is not completely shutdown and thus it takes a shorter time to turn it on and off.

• Deep Standby Mode [ⓘ : Menu > Standby/Restart > Deep Standby]

Deep Standby is used to reduce the standby power consumption. Vu+ is designed to be energy efficient and to guarantee the power consumption to be under 1W in the deep standby mode.



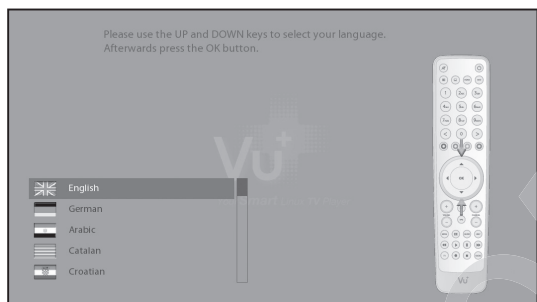
II. First Time Installation (using Wizard)

When you turn on Vu+ for the first time after purchase, an installation wizard will begin step by step.

NOTE : OK key is used for confirmation and turns to the next step. Press EXIT key to return to the previous page.

Step 1. Language Selection

Vu+ provides various languages and here you can choose the main language for your Vu+. Use UP/DOWN key to scroll up and down to find the language you want.



Step 2. Configuring Satellite Connection

From now on you need to configure the satellite connection. You have two options:

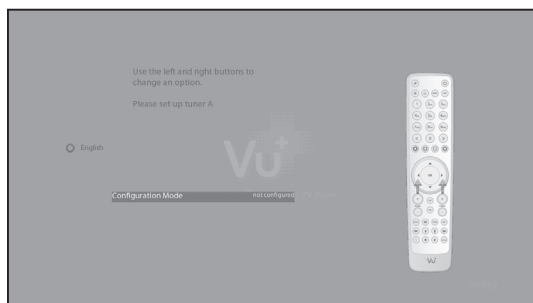
- Use wizard to set up basic features
- Exit wizard

You are strongly recommended to use wizard as it is designed to guide you through the configuration process.



A. Configuring Tuner A - DVB-S2

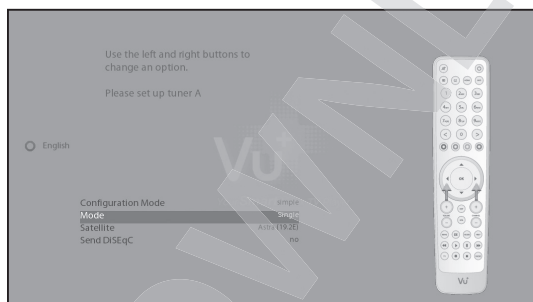
NOTE : If DVB-S2 tuner is mounted, read the following instructions.



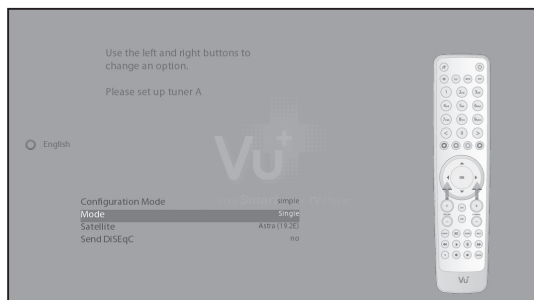
Using **LEFT/RIGHT** key, you can choose one of the following Configuration Modes:

- Nothing connected
- Simple
- Loop through to: mode to make the LNB1 be internally connected to the LNB2 in.
- Equal to: mode to use the same configuration as that of Tuner B.
- Advanced: for an advanced user configuration.

If you choose Simple configuration mode, the following picture will appear.

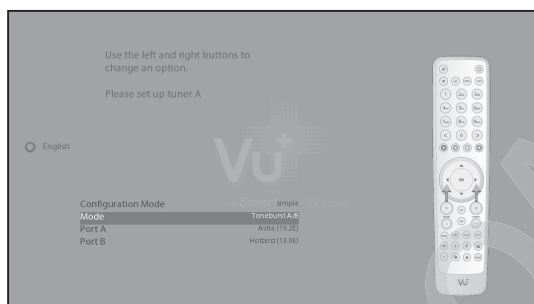


The five modes are available for the satellite cable connection between LNB and your Vu+ as below :



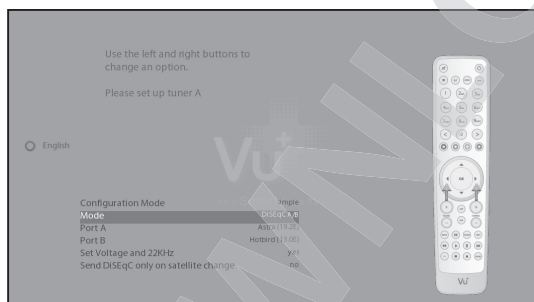
- **Single**

This option is used to receive a single satellite with a single LNB. The cable from LNB is directly connected to Vu+.



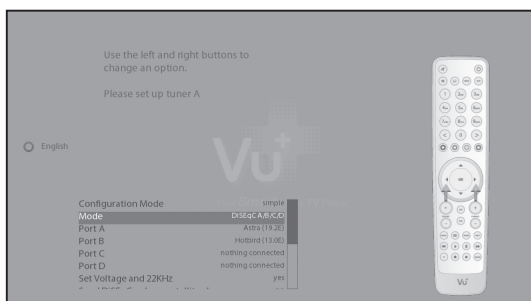
- **Toneburst A/B**

This option is used if you want to receive two satellites using a Toneburst switch.



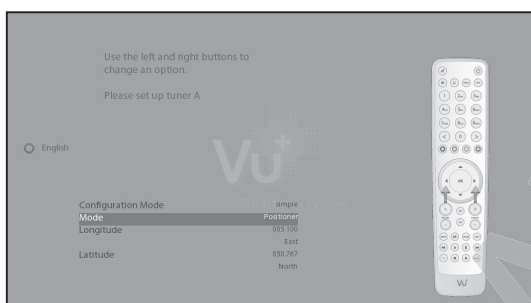
- **DiSEqC A/B**

This option allows you to configure two satellites in Port A and Port B.



• DiSEqC A/B/C/D

This option allows you to configure four satellites in Port A, Port B, Port C and Port D.



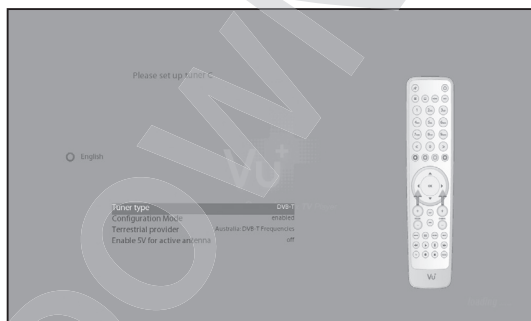
• Positioner

This option is used when you have a motorized satellite antenna.

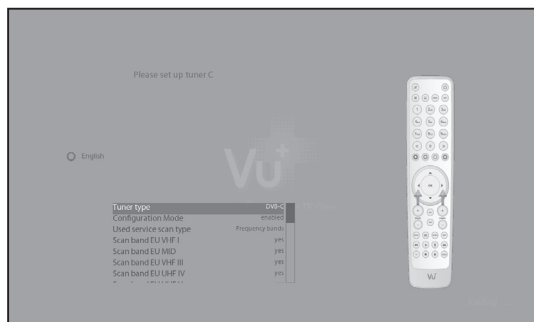
B. Configuring Tuner A - DVB-C/T

• Selecting Tuner Type

Suppose that you have installed DVB-C/T tuner of Vu+, you can select between DVB-C or DVB-T by using LEFT/RIGHT button.



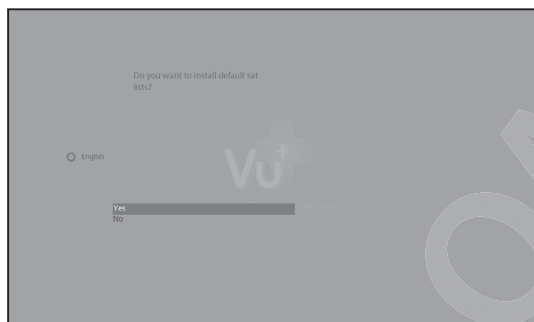
* DVB-C/T Tuner of Vu+ is a hybrid tuner that can be used for DVB-T or DVB-C selectively. However, you can tune into only one mode at a time.



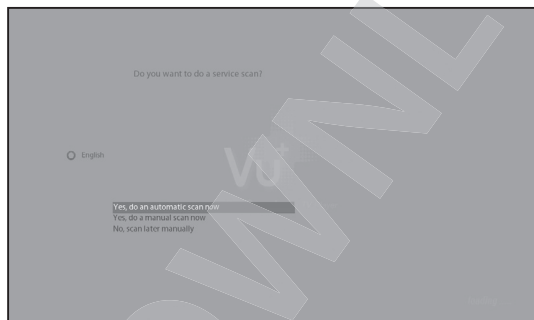
• Configuring DVB-T / C Tuner

If configured for DVB-T, this step allows you to choose one of the four “Terrestrial provider” depending on your location.

Australia: DVB-T Frequencies
Europe, Middle East, Africa: DVB-C Frequencies
Europe, Middle East, Africa: DVB-T Frequencies
Iceland: DVB-T Frequencies

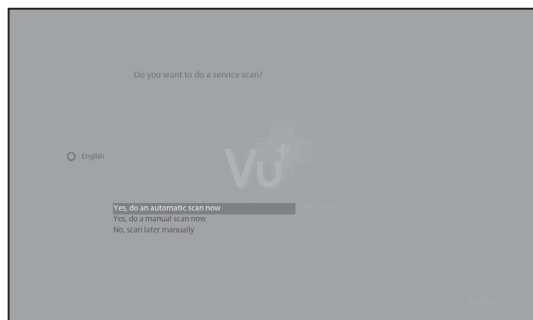


If configured for DVB-C, this step allows you to decide whether to scan each of the various scan band in the list.



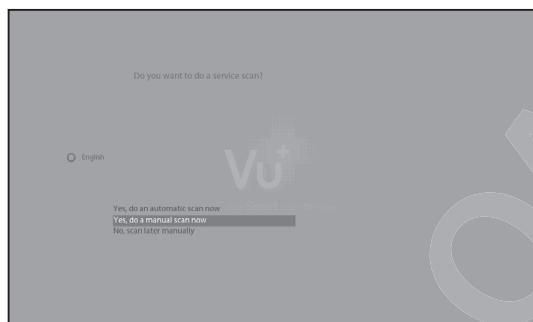
• Installing default channel list

Here you can decide whether to install the default channel lists or not.



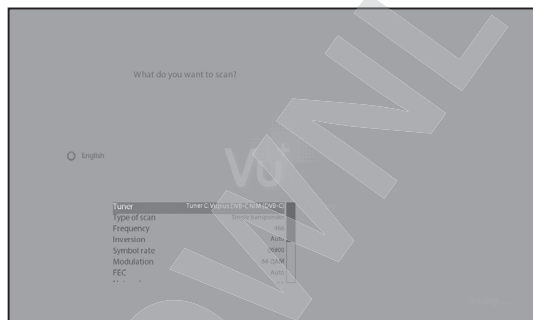
• Selecting Scan Mode - Automatic Scan / Manual Scan

Channel scanning is possible either in Automatic Scan mode or Manual Scan mode.



• Automatic Scan

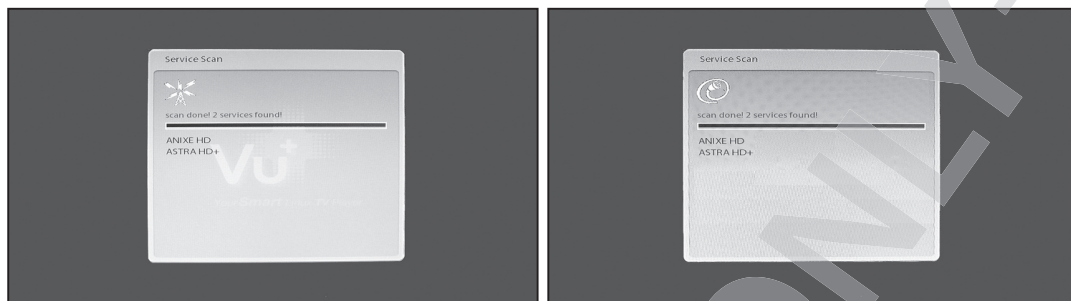
If you choose Automatic Scan, you will be asked whether to erase all the existing channels before scanning.



• Manual Scan

If you choose Manual Scan for DVB-T or C, you can also select the type of scan between Complete and Single Transponder.

Press **OK** to initiate the channel scan.



- **Channel Scanning**

The scanned channels will be displayed if the previous configurations have been done correctly.

Step 3. Installing Default Satellite List

Here you will be asked whether you want to install the default satellite lists. Press **OK** and the following image appears:



Step 4. Parental Control Option

Here you can choose whether to enable the parental control option. If you press **OK**, you will be asked to enter PIN number



III. Basic Operations

1. Switching Channel

[i] : Press **UP** / **DOWN**, **CHANNEL** **+** / **-** key / Press **LEFT** / **RIGHT** to move to the next channels]

Vu+ offers various channel zapping methods. You can switch the current channel by pressing

- **UP/DOWN** key

If you press **UP** or **DOWN** key, *Channel Selection* menu appears.

You can move up and down to select the channel that you want to tune into.

- **LEFT/RIGHT** key

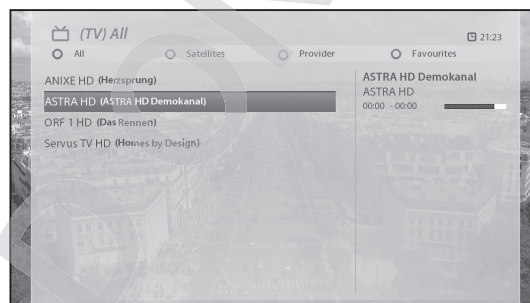
If you press **LEFT** or **RIGHT** key, the previous or subsequent channel of the current channel is tuned in.

- **CHANNEL +/-** key

If you press **CHANNEL** **+** or **-** key, this will call up the *Channel Selection* menu.

- **Channel Number**

Enter a channel number, and it will instantly tune into the channel.

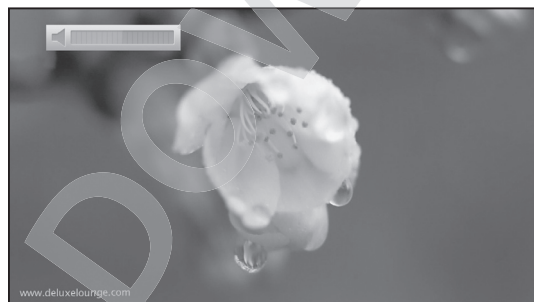


NOTE : If channel change is not done, it is probably because the selected channel is encrypted and you do not have a proper smartcard.

2. Volume Control

[i] : Press **VOLUME** **+** / **-** key]

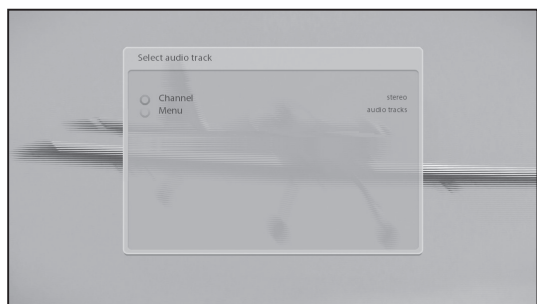
You can adjust the audio volume by pressing **VOLUME** **+**/**-** key. You can also mute or unmute the audio temporarily by pressing **MUTE** key ()



3. Selecting Audio Track

[**i** : Press AUDIO **AUDIO** key]

You can check what audio tracks are available to choose by pressing **AUDIO** key.



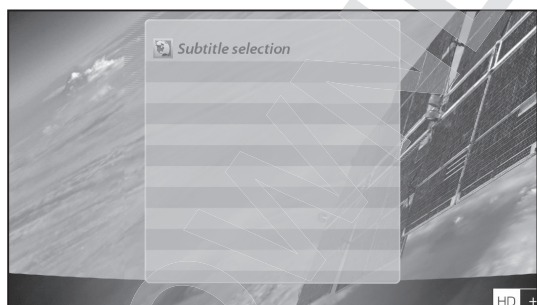
By using **UP/DOWN** key and Color key, you can select a different audio language or Stereo sound.

NOTE : Available options on this menu will differ depending on the service.

4. Subtitle

[**i** : Press SUBTITLE **⏏** key or Press MENU **MENU** > Subtitle]

You can view the subtitle of the current program if the program provides the subtitle. Press **SUBTITLE** (**⏏**) key and **Subtitle selection** menu appears as below.

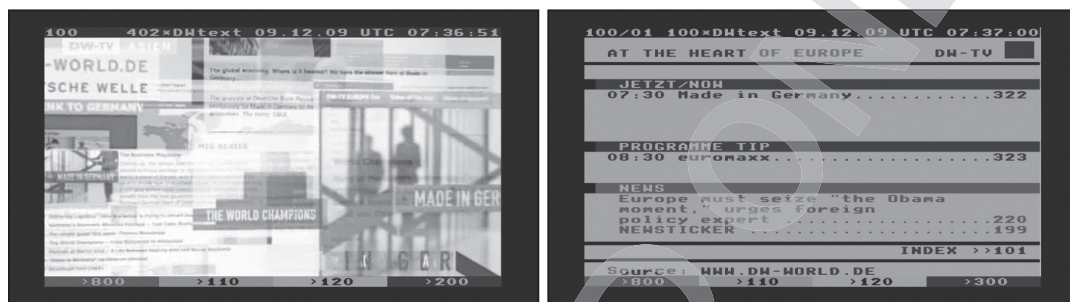


Available subtitles, if any, will display. By using **UP/DOWN** navigate the list to select a subtitle that you want to play and press **OK** to activate it.

5. Teletext

[ : Press TELETEXT () key]

You can call up Teletext information by pressing TELETEXT key (). It will take some time to load all the information.



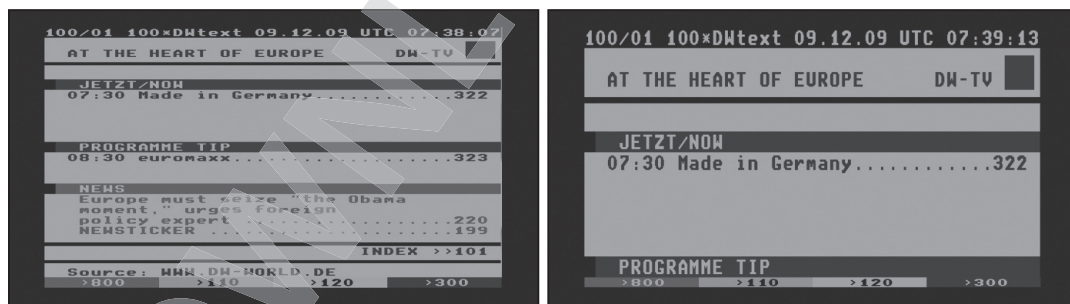
You can navigate through the Teletext page by using UP/DOWN key to select a text page. Also, just simply enter the page number that you want to read.

- **MUTE** key

Once you activated Teletext, you can toggle between the live mode and the Teletext page by pressing MUTE () key instantly. In this case, loading of the Teletext page takes place instantly.

- **VOLUME +**

If you want to enlarge the page, press **VOLUME +** key.



- **VOLUME -**

If you want to reduce the page size, press **VOLUME -** key.

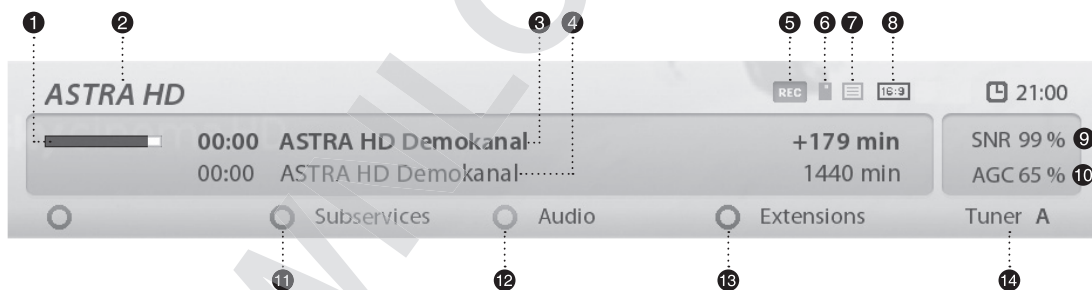


6. Program Information (Infobar)

[**i**] : Press OK (**OK** key)

Whenever you change the channel, infobar is always displayed for 5 seconds (default setting). Infobar is designed to provide you comprehensive information of the channel that you are currently watching.

- Press **OK** to call up infobar.



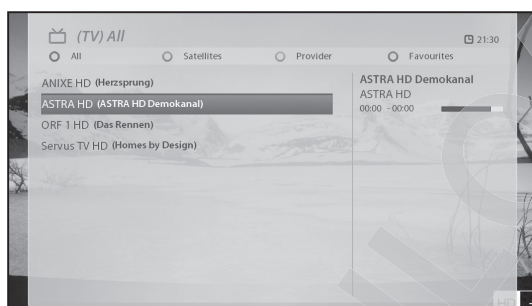
- ① Remaining time of the current program
- ② The name of the current channel
- ③ The current program
- ④ The next program
- ⑤ **REC** : Highlighted in red when recording is in progress.
- ⑥ **CAS** (■) : Encrypted program
- ⑦ **Teletext** (≡) : Highlighted when the program provides Teletext.
- ⑧ **16:9** : Screen ratio

- ⑨ **SNR** (Signal to Noise Ratio) : Signal Level
- ⑩ **AGC** (Automatic Gain Control) : Signal Strength
- ⑪ **GREEN** : to call up Subservices, if available
- ⑫ **Audio** : to display available audio tracks.
- ⑬ **Extensions** : to call up a Picture in Picutre.
- ⑭ **A** : The tuner being used for the current channel.

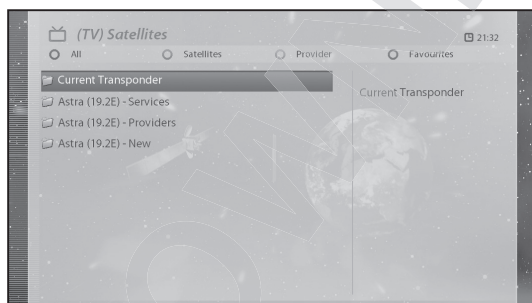
7. Channel List (Channel Selection Menu)

[**i** : Press **▲** / **▼**, CHANNEL **+** / **-** key]

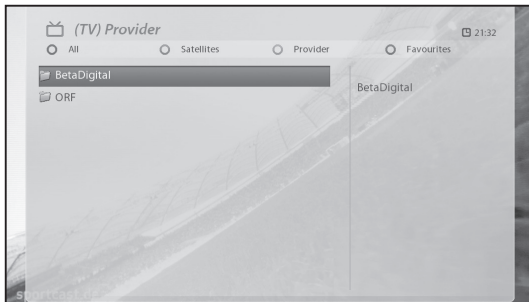
If press **UP/DOWN** key, this will activate *Channel Selection* Menu as below.
Four types of the channel lists are available to help you manage your channel selection.



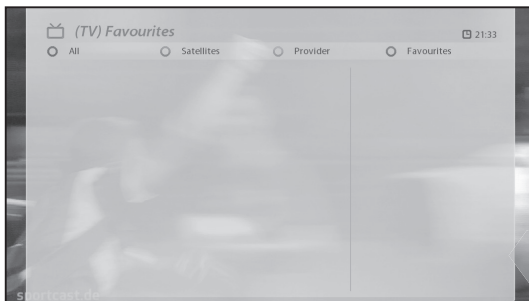
- **RED** displays the list of all scanned channels.



- **GREEN** displays the list of all scanned satellites.
Per each satellite, channels are arranged according to *Services*, *Provider*, and *New*.



- **YELLOW** displays the list of providers.



- **BLUE** displays the list of your favorite channels.

In order for you to add certain channels to this *Favourites* list,

- ① Call up the *Channel Selection* list by pressing **UP** or **DOWN** key.
- ② Go to the *All* list by pressing **RED**.
- ③ Select the channel that you want to add to the *Favourites* list.
- ④ Press **MENU** key on the selected channel and the following menu appears.

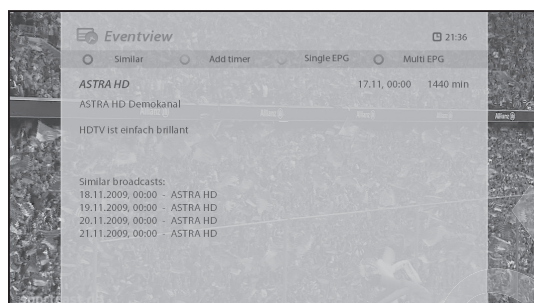


- ⑤ Choose “**add service to favourites**” and press **OK**.
- ⑥ Go to the **Favourites** list by pressing **BLUE** to confirm that the selected channel is correctly included in the list.

8. Electronic Program Guide (Event View)

[**i**] : Press EPG (**EPG**) key]

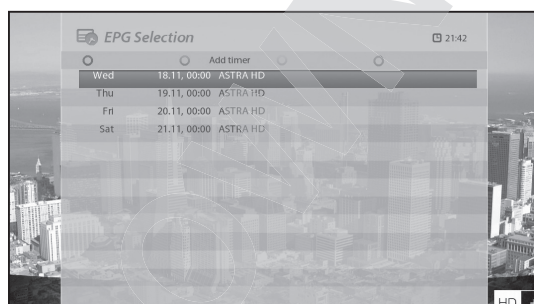
The Electronic Program Guide (EPG) displays the program information of each channel, if provided, in time and date order. You can view the detailed program information by pressing **EPG** key and the following menu, **Eventview** appears.



Detailed information of the current channel will be displayed on EPG. On this menu, three options are provided.

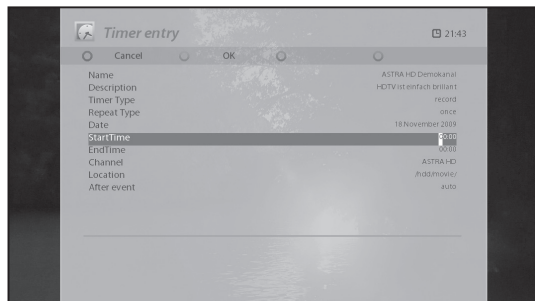
- **RED (Similar)**

This option helps you find similar programs. If there are one or more programs that are similar to the current program, **EPG Selection** window displays them as below.



• GREEN (Add Timer)

If you press **GREEN** key, *Timer entry* menu appears as below. This option is used to set up a new timer for recording or zapping.



- Name

Displays the name of the selected program.

- Description

Displays a short description of the selected program.

- Timer Type

- Select **Zap** for channel tuning reservation.
- Select **Record** for recording reservation.

- Repeat Type

- Select **Once** for one time of zapping or recording reservation.
- Select **Repeated** for repeated zapping or recording reservation.
- Repeats - This option is given only when you selected "**Repeated**" in the Repeat Type. You can reserve zapping or recording per Daily / Weekly / Mon-Fri / User-defined.

- Date

Displays the current date. This entry is on when you selected **Once**, in the Repeat Type.

- Start Time

You can set the time to begin recording or zapping.

- End Time

You can set the time to end recording or zapping

- Channel

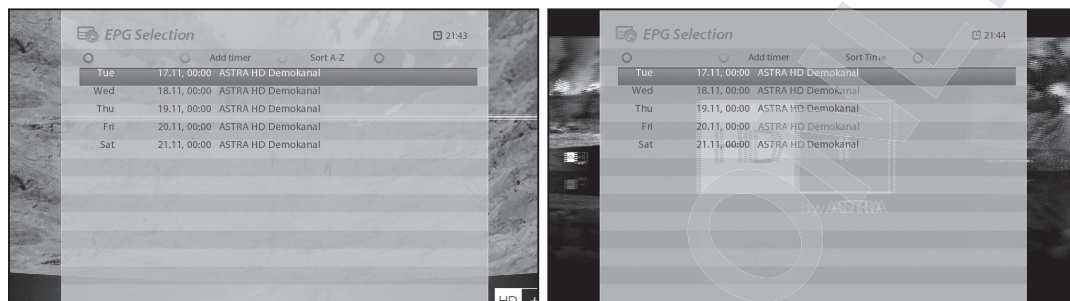
This entry allows you to change the channel. Press **LEFT/RIGHT** key to call up *Channel Selection* menu. You can select a different channel from this list using this option. To return to *Timer entry* menu, press **EXIT**.

- After event

This option allows you to choose from auto, do nothing, go to standby, and go to deep standby after the timer event is done.

• YELLOW (Single EPG)

Press **YELLOW** while *Eventview* menu is on, to call up the program event schedules of the selected channel.



In this state, you can sort the list according to A-Z order or Time by pressing **YELLOW**.

NOTE : To add a timer for recording or zapping, press **GREEN**.

• BLUE (Multi EPG)

Press **BLUE** to activate *EPG Selection Multi* window.

- You can move the previous or next program within the same channel by using **YELLOW** (Previous)/ **BLUE** (Next).



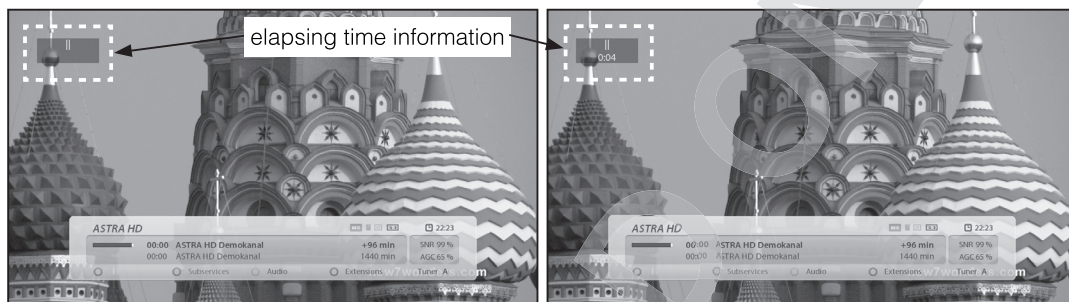
NOTE : Not all channels provide EPG information and thus in case of no EPG data, nothing will be displayed except for the channel name.

- You can switch to another channel by using **UP/DOWN** key.
- **RED** key is used to instantly tune into the selected channel.
- **GREEN** key is used to reserve recording or zapping of the selected program.

9. Timeshift

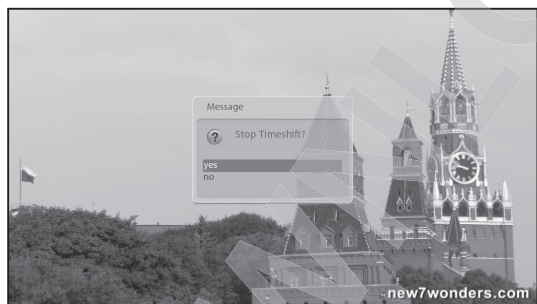
[**i**] : Press **▶** or **⏸** key]

For your information, Timeshift is an instant recording of the current program that you are watching. Press **PLAY** or **PAUSE** key, it will instantly pause the audio and video of the program, and a small window displaying elapsing time information will appear on the left upper side of the screen as below.



In this state, Timeshifted recording is running until you press either **PLAY** or **PAUSE** again. You can restart viewing of the program.

If you want to stop Timeshifted recording and to return to the live mode, press **STOP** key.



You will be asked of **Yes** or **No** to stop Timeshift.

NOTE : What is different from normal recording is that Timeshifted recording is not meant to be stored on HDD. If you stop Timeshift, you cannot replay the Timeshifted recording.

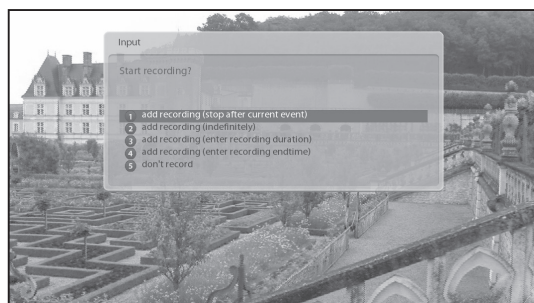
10. Recording

Vu+ Ultimo supports multiple recordings up to 8 recording at the same time.

① Instant Recording

[**i**] : Press REC **○** key]

Press REC key to start the recording of the current program.



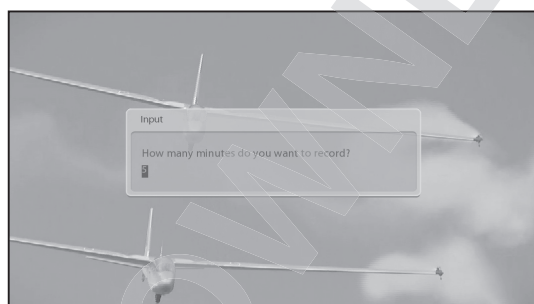
Five recording options are given.

- Add recording (stop after current event)

This option is used when you want to end recording when the current program ends.

- Add recording (enter recording duration)

This option is used when you want to manually set the length of recording by entering a certain number as below:



- Add recording (enter recording end time)

This option is used when you want to define a certain date and time when the recording is stopped.



- Add recording (indefinitely)

This option is used when you want to keep recording running without a specific end time. Recording will continue unless you stop it.

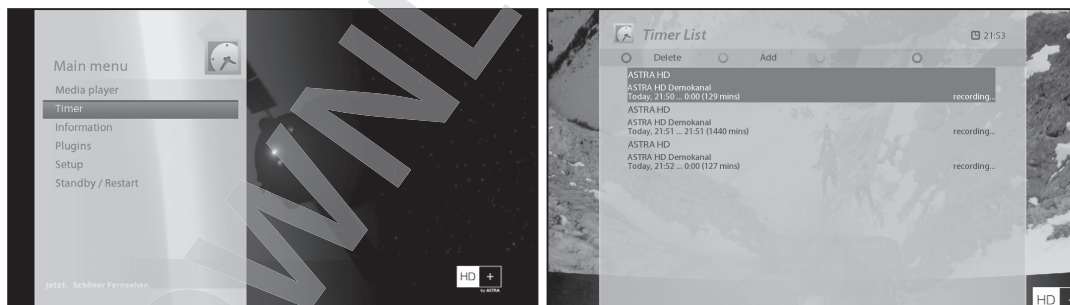
- Don't record

This option is used to exit from this menu without recording.

② Recording by Timer

[**i**] : Press MENU (MENU) key > Select Timer]

You can manage recording process using *Timer List* menu. Press **MENU** and select *Timer* on the menu.



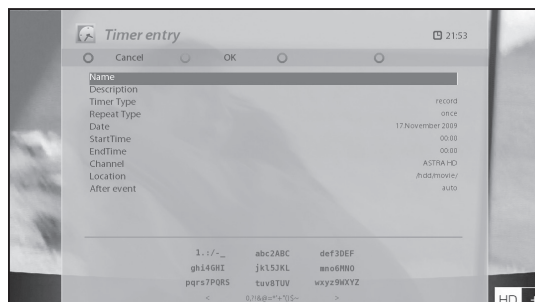
In this menu, color keys are assigned for each different function.

- RED (Delete)

This option is used to delete a timer.

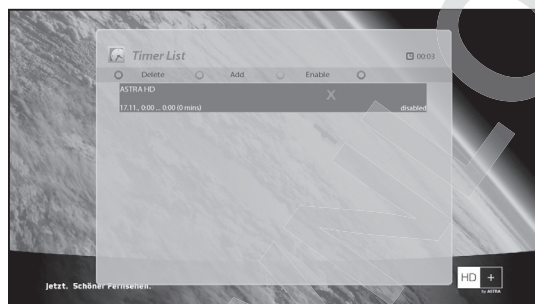
- GREEN (Add)

This option is used to add a timer.



- YELLOW (Disable)

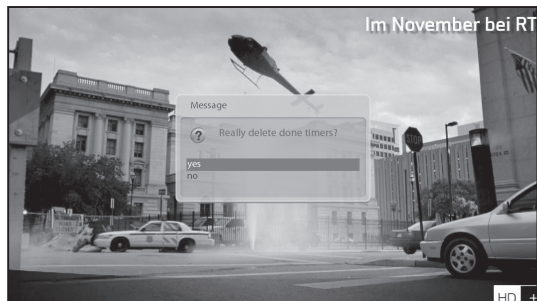
This option is used to disable the timer and X mark will appear.



NOTE : if you want to enable the disabled timer, press **YELLOW** again.

- BLUE (Cleanup)

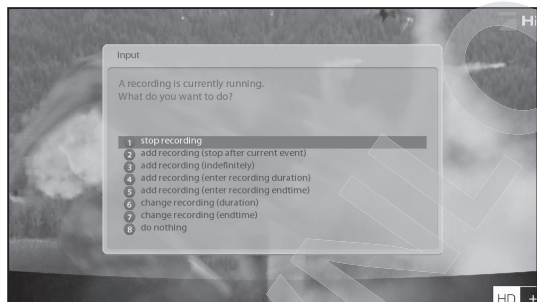
This option is used to remove those finished timers from the *Timer List*.



NOTE : Make sure that the HDD on your Vu+ has enough free space available for recording. If the free space on the HDD is not sufficient, recording might stop before the defined end time.

- Stop Recording [i] : Press REC ● key > Select “Stop Recording”]

If you want to stop recording, press **REC** again while recording is running. Select *Stop Recording*.



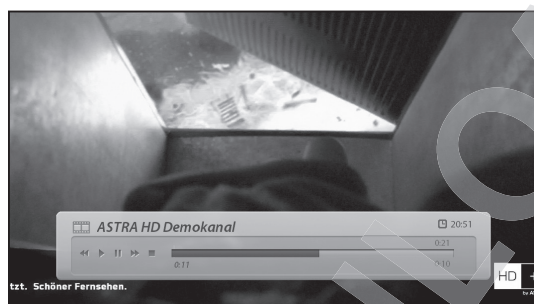
11. Recording Play

[**i**] : Press Recording List (**ER**) key]

You can view recorded files on the *Recorded files* menu. Press **Recording List** (**ER**) to activate this menu.



Select the file that you want to play. It will instantly replay the file and display the recording infobar.



This infobar gives you the following information of the recording.

- ① Title of the recording
- ② Total duration of recording
- ③ Remaining time
- ④ Progressive bar
- ⑤ Elapsed time

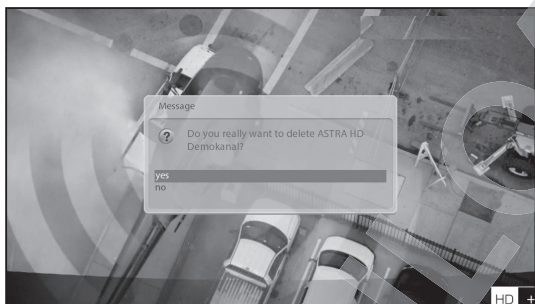
12. Managing Recording Files

[**i**] : Press Recording List (**ER**) key > Press MENU key]

If you want to delete a recording file, press **MENU** key while *Recorded files* menu is on.



Select “*delete*” and confirm *OK* to delete.



Other than “*delete*”, in this menu, you have options in sorting and listing of the recording files.

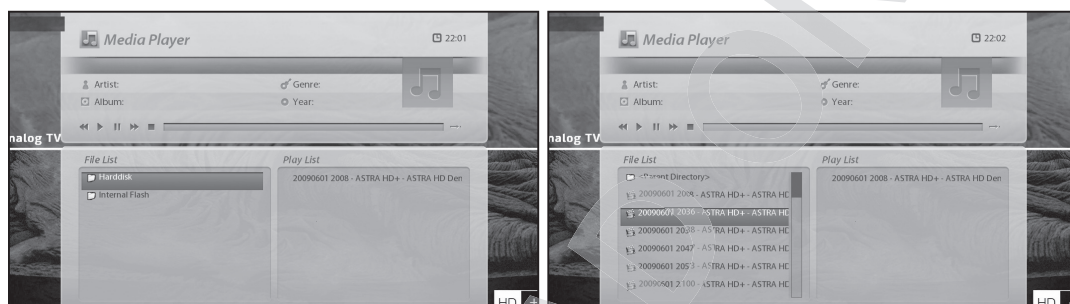
- Sort by date
- List style default
- List style compact with description
- List style compact
- List style single line
- Hide extended description.

13. Media Player

[**i**] : MENU (MENU) > Media Player]

Vu+ is truly a multimedia receiver capable of playing media contents. Using Media Player, you can enjoy Music, Photo and Video contents stored on the internal HDD and/or an USB memory stick plugged into Vu+.

If you play **Media Player**, the following player will appear.



- ① Go into any directory of the HDD or plugged USB.
- ② Select a file in the **File List** to play and press **OK**. The selected file will be displayed in the **PlayList**.
* Supported formats are mainly JPG, MP3, AVI, etc.
- ③ In the same way, you can play the recording files stored on the HDD.
- ④ To move between **File List** and **Play List**
 - Press **CH-** to go into **Play List**
 - Press **CH+** to go into **File List**
- ⑤ To call up **Media Player** window
 - Press **Play**(▶), or **Pause**(⏸) or **Stop**(■)
- ⑥ To play
 - Select a file in the **Play List** and press **OK**.

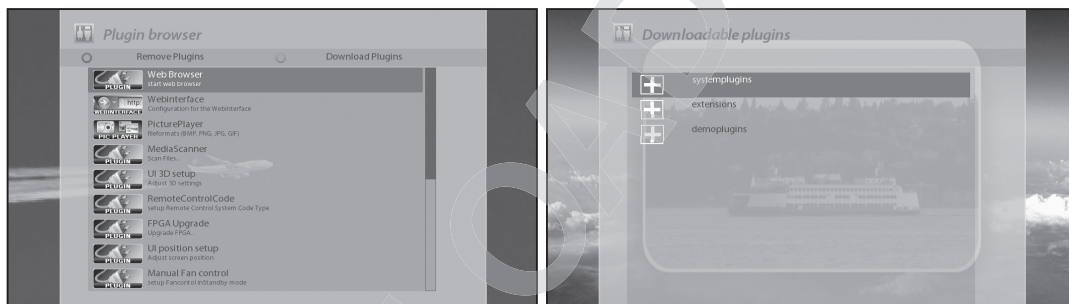
14. Plug-ins

[**i** : MENU **MENU** > Plugins]

Vu+ is integrated with standard 10/100Mbps Ethernet with RJ 45 connector. You are recommended to use this network capability of Vu+ to fully enjoy the system. If your Vu+'s network connection is established, you can directly download plug-ins from a designated website of Vu+.

- ① Press **MENU** and select **Plugins** menu to active **Plugin browser**.
- ② Press **GREEN** key to download a list of plug-ins available.
- ③ Once the download is done, a list of plug-ins will be displayed.
- ④ Select a plug-in to download.
- ⑤ You can check if the download is done properly on the Plugin browser

From this site, you can check available plug-ins to download as below.



15. Sleep Timer

[**i** : MENU **MENU** > Standby/ Restart > Sleep Timer]

You can set a specific time when your Vu+ goes into Standby mode or Deep Standby mode, using this menu. Three color keys are used to set up this sleep timer.

① RED

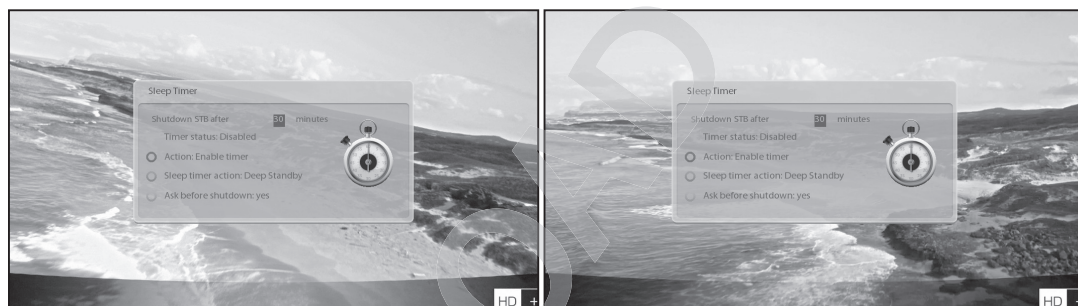
This option is used to enable or disable *Sleep Timer*.

② GREEN

This option is used to choose between *Standby mode* and *Deep Standby mode*.

③ YELLOW

This option is used to choose whether to be asked of confirmation before system shutdown.



IV. System Configuration

Vu+ is a very sophisticated device designed to allow users a variety of system setting options. You can fine-tune your Vu+ to be your OWN system to fit your taste. This chapter will guide you through the entire menu of system configuration.

Prior to System Configuration, please take a notice on the menu structure of Vu+ first.

1. Main Menu

[**i**] : Press MENU (MENU)

The main menu of Vu+ consists of the following sub menus.

① **Media player**

Activate Media player of Vu+. For more information, please refer to Media Player section

② **Timer**

Activate Media player of Vu+. For more information, please refer to Media Player section

③ **Information**

Has two sub menus for *Service* / *About*. *Service* menu provides the detailed information of the current channel. *About* menu provides the detailed information of the H/W and S/W system of your Vu+.

④ **Plugins**

Activates Plugin browser of Vu+. Using this browser, you can log onto the designated website and you can download a variety of new plug-ins.

⑤ **Setup**

Provides all of the system settings.

⑥ **Standby / Restart**

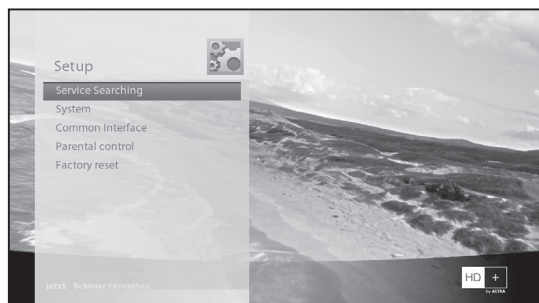
Provides options for power on/off and sleep timer.



2. System Setup

[**i**] : Press MENU (MENU) > Select Setup]

The Setup menu consists of the following sub-menus.



- ① Service Searching
- ② System
- ③ Common Interface
- ④ Parental Control
- ⑤ Factory reset

2-1. Service Searching

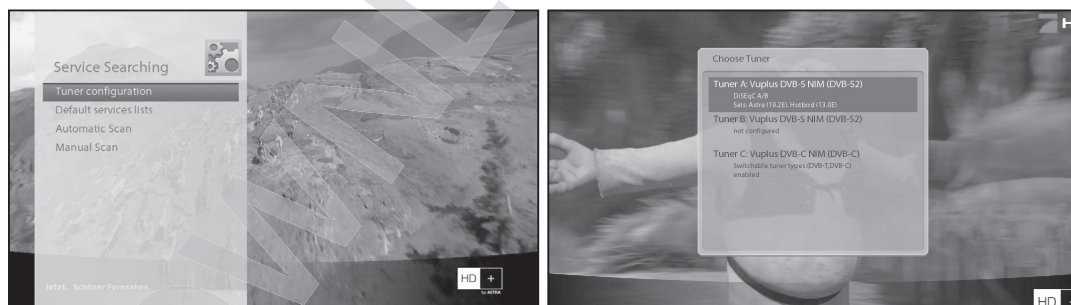
[**i**] : Press MENU (MENU) > Setup > Service Searching]

Here you set up the tuners of your Vu+ and run channel scanning automatically or manually.

A. Tuner Configuration

[**i**] : MENU (MENU) > Setup > Service Searching > Tuner Configuration]

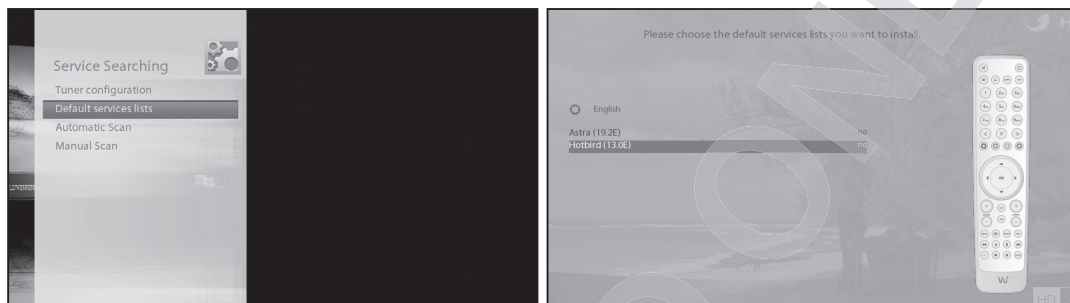
If you run the First Time Installation process, the Tuner A is already configured. You can check the information of Tuner A and which satellites are scanned, as follows.



B. Loading Default Service Lists

[**i**] : MENU (MENU) > Setup > Service Searching > Default Service List]

In case there are service lists available for certain satellites, for example, Astra or Hotbird, you can install the lists in the channel list of your Vu+.

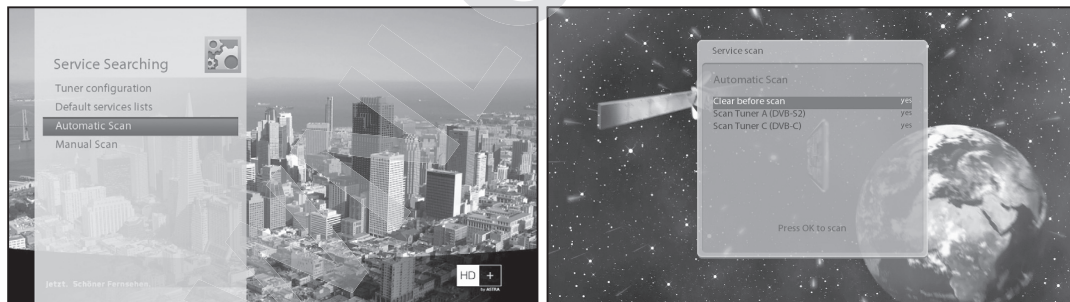


If default service lists are not available, you can run the service scan automatically or manually to add TV and radio channels into the channel list of your Vu+.

C. Automatic Scan of Services

[**i**] : MENU (MENU) > Setup > Service Searching > Automatic Scan]

The easiest way to scan services is to use **Automatic Scan**. In the **Automatic Scan** menu, there are two options to choose from as below.



• Clear Before Scan

YES is used when you want to delete the existing channel list before you start the automatic scan. If you want to keep the existing list, select **NO**.

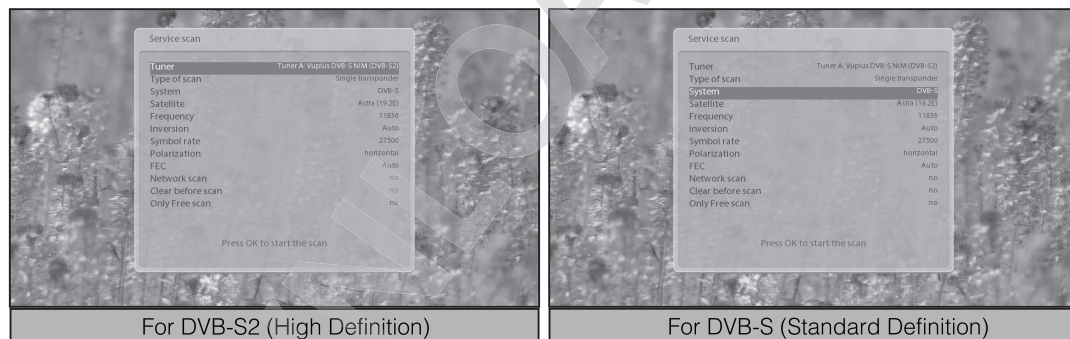
Press **OK** to activate the automatic scan. This will take some minutes. As the scan proceeds, you will see the progressive bar and the newly found services underneath.



D. Manual Scan of Services

[**i**] : MENU [MENU] > Setup > Service Searching > Manual Scan]

If you know well enough to configure each exact setting required for manual search of services, you can do manual scan as well. There are many parameter values that you need to decide as below.



For DVB-S2 (High Definition)

For DVB-S (Standard Definition)

Amongst other things, the below parameters are what you need to decide prior to manual scan.

① Tuner

You need to decide which tuner you want to use for manual scan.

② System

Here you have two options between DVB-S (SD) and DVB-S2 (HD), if DVB-S2 tuner is mounted.

③ Frequency

You need to enter the exact frequency of the transponder that you want to scan.

④ Symbol Rate

You need to enter the exact symbol rate of the transponder that you want to scan

⑤ Polarity

Here, you have options for Horizontal, Vertical, Circular Left and Circular Right. You need to know the polarity of the transponder that you want to scan.

⑥ FEC (Forward Error Correction)

You need to enter the exact FEC value of the transponder that you want to scan

⑦ Modulation

Here you have two options for QPSK (SD) and 8PSK (HD).

⑧ Network Scan

Here you have two options for **YES** and **NO**. **NO** is used to scan the transponder (TP) based on the data that your Vu+ currently has. **YES** is used to scan the TP not just based on the existing TP data but also using new TP data, if there is TP data newly transported from the TP. Naturally, **YES** option takes longer while it may results in a better scan result.

⑨ Clear Before Scan

YES is used when you want to delete the existing channel list before you start the automatic scan. If you want to keep the existing list, select **NO**.

⑩ Only Free Scan

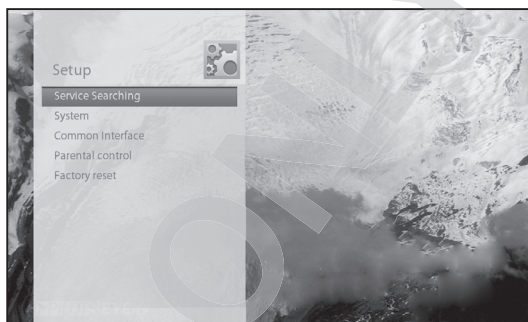
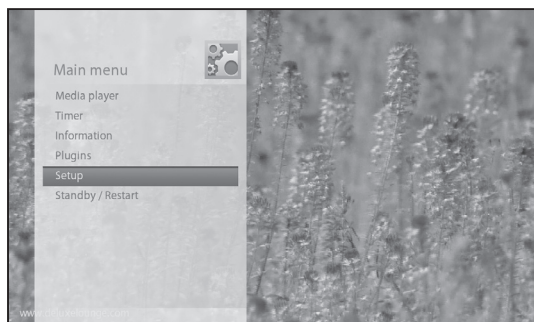
Here you have two options for **YES** and **NO**. If you want to scan only Free To Air channels without any encryption, select **YES**. Otherwise, select **NO** to scan all FTA and CAS channels.

Press **OK** to activate the manual scan. This will take some minutes. As the scan proceeds, you will see the progressive bar and the newly found services underneath.

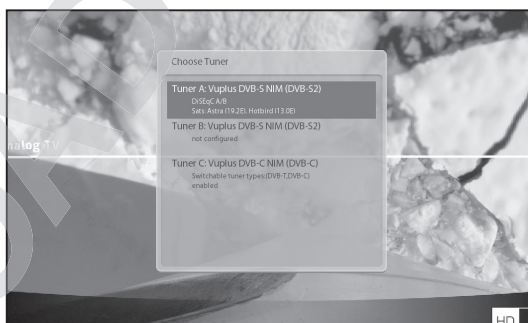
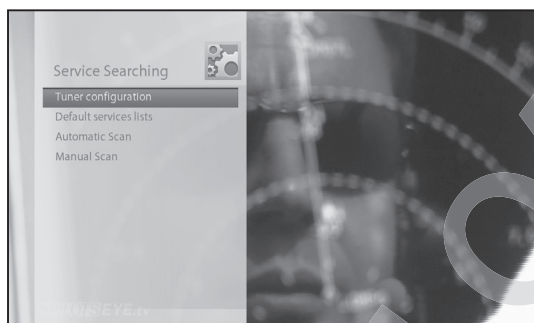


E. Selecting Tuner Type (for DVB-C/T Tuner)

If you have installed DVB-C/T Tuner of Vu+, you need to configure it as follows:

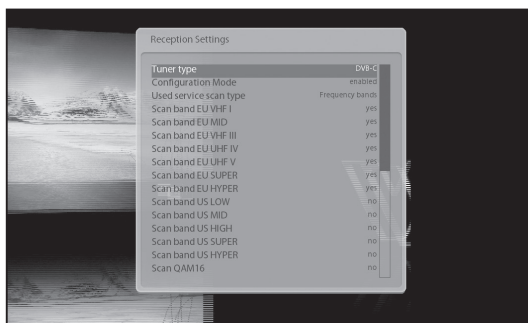


1. Go to Setup => Service Searching => Tuner Configuration

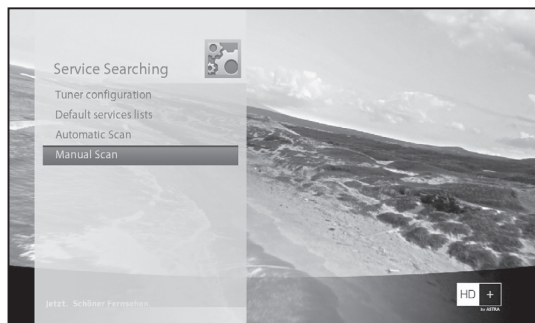


2. Press OK to activate Tuner A window

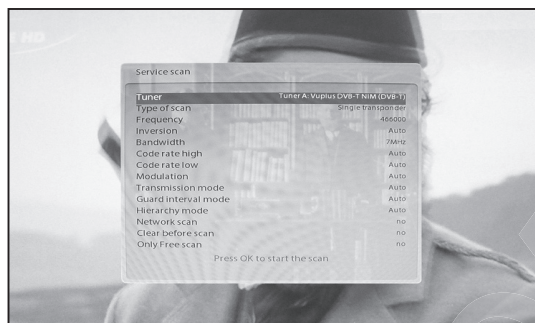
3. Press OK again Reception Setting window



4. You can select DVB-C or DVB-T tuner by using LEFT/RIGHT button. Now the tuner configuration is done.



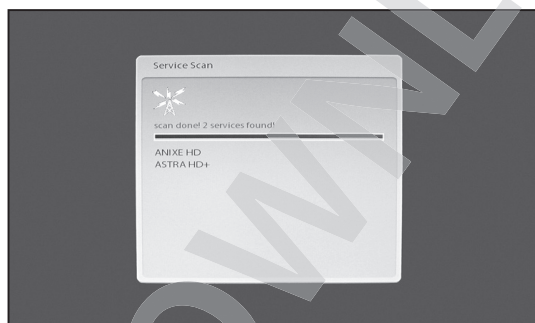
5. Go to Setup => Service Searching
For the channel scan, you can select between Automatic Scan and Manual Scan.



6. Press OK to call up Service Scan window.

If the tuner is configured for DVB-T, channel scanning will be done in DVB-T mode.

If the tuner is configured for DVB-C, channel scanning will be done in DVB-C mode.



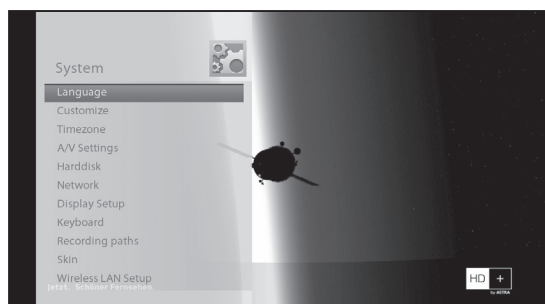
7. Press OK to begin the channel scan.

Once the scan is done, the scan results will be displayed.

2-2. System Configuration

[(i) : Press MENU (MENU) > Setup > System]

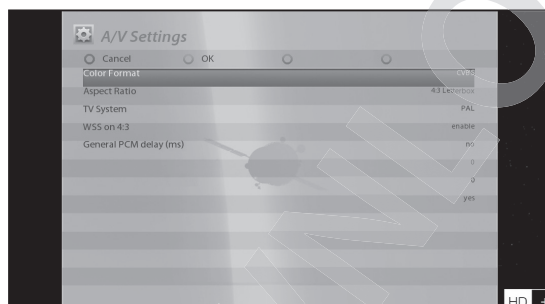
Here you can find most of the necessary settings that you might need to optimize your Vu+ in the way you like it. Please read the followings carefully.



A. A/V Settings

[(i) : MENU (MENU) > Setup > System > A/V Settings]

Here you will find options necessary to set up the audio and video configuration of your Vu+.



NOTE : RED is for cancel and GREEN is OK. OK key of RCU is not working in this mode.

Amongst the parameters given in this menu, the following ones are generally what you need to decide for the audio and video.

① Video output

Here you need to decide which video output you want to use between your TV and Vu+.
The available options are as below.

- CVBS
- S-Video
- RGB

② Mode

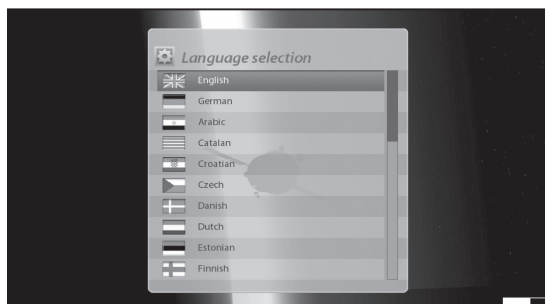
You need to decide which resolution to use according to the video output above and your TV amongst the following options.

	Scart
Resolution	PAL NTSC Multi

B. Language Selection

[**i**] : MENU (MENU) > Setup > System > Language]

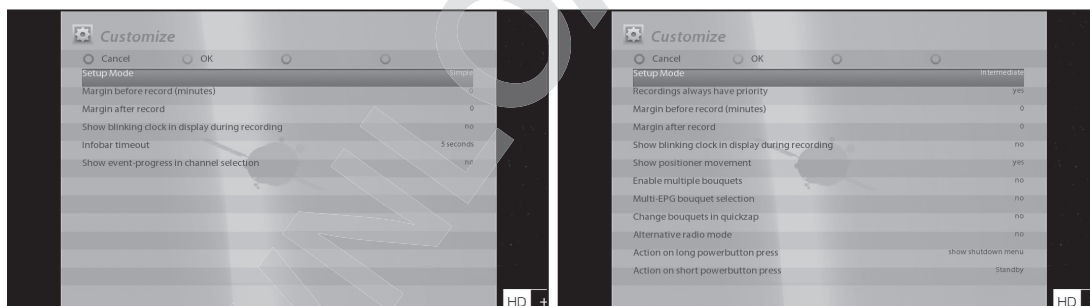
A variety of languages are available for the OSD(On-Screen Display) of Vu+.

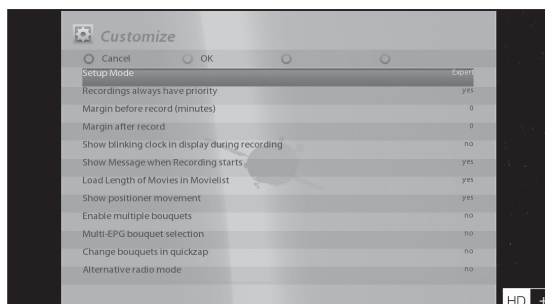


C. Customization

[**i**] : MENU (MENU) > Setup > System > Customize]

In this menu you will find various customization options and this menu can be displayed in three different formats: *Simple*, *Intermediate*, and *Expert*.





NOTE : RED is for cancel and GREEN is OK. OK key of RCU is not working in this mode.

Amongst the options given in this menu, the following ones are generally what you may need to know.

① Recording always have priority

YES option is used to set the recording to have a priority over any existing timer. If there occurs a conflict between a timer and a recording in progress, the recording has a priority over the timer. If you set this option at **NO**, you will be asked whether to switch to the service to record or not.

② Margin before record (minutes)

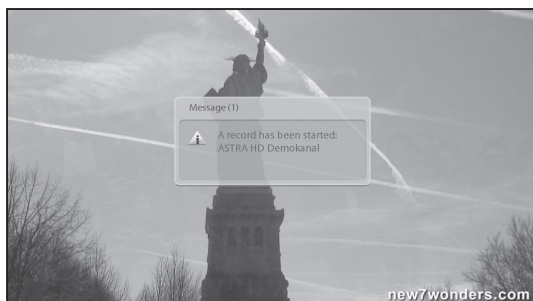
If you enter a number here, for example, 5, the recording will begin 5 minutes before the defined time. If it is "0", it means that the recording starts exactly at the defined time. This option comes in handy, just in case that a program starts earlier than the original schedule.

③ Margin after record

If you enter a number here, for example, 5, the recording will stop 5 minutes after the defined time. If it is "0", it means that the recording stops exactly at the defined time. This option comes in handy, just in case that a program ends later than the original schedule.

④ Show Message when Recording starts

If you set this option at **YES**, a message saying that a recording has started appears as below.



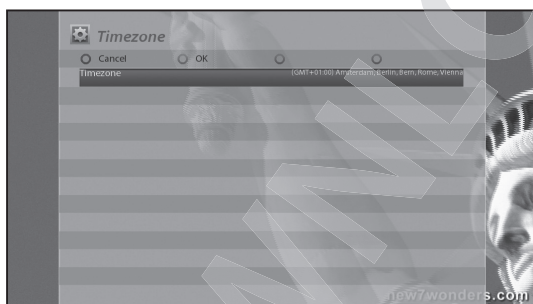
⑤ Enable multiple bouquets

If you set this option at **YES**, it will enable multiple bouquets.

D. Selecting Time Zone

[**i**] : MENU **(MENU)** > Setup > System > Timezone]

You can set your time zone in this menu.

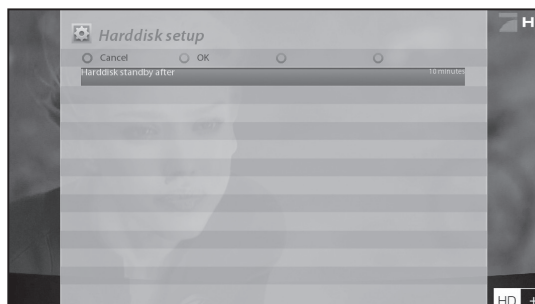


Using **LEFT/RIGHT** key, you can find a time zone that you want to use for your Vu+. After selecting a time zone, press **GREEN** to confirm and save the changed setting.

E. Hard Disk Set Up

[**i**] : MENU (MENU) > Setup > System > Harddisk > Harddisk setup]

You can set the duration of time after which HDD is to be put into standby mode.



Here, you can choose from

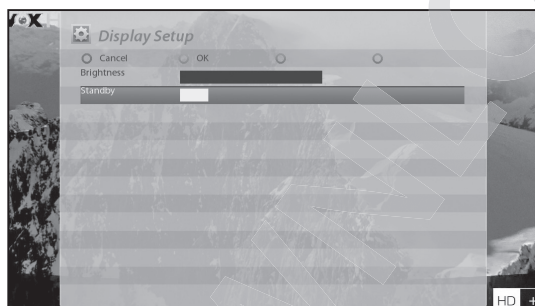
- No standby
- 10 or 30 seconds
- 1, 2, 5, 10, 20, 30 minutes
- 1, 2, 4 hours.

Once you set this option, press **GREEN** key to confirm the change.

F. Front Display Setup

[**i**] : MENU (MENU) > Setup > System > Display Setup]

There is a Large graphicVFD display on the front panel of Vu+. This display shows various information like the current menu, channel, HD icon, and so on. You can adjust the brightness of this display using this menu.



▪ Brightness

You can change the brightness of the front VFD display using **LEFT/RIGHT** key when Vu+ is in use.

▪ Standby

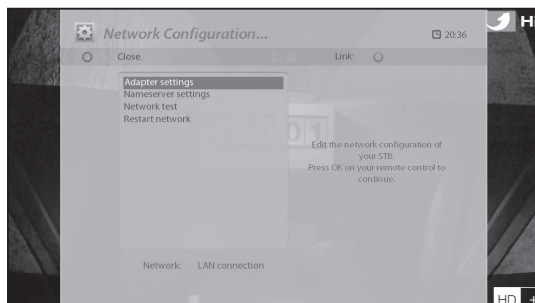
You can change the brightness of the front VFD display using **LEFT/RIGHT** key when Vu+ is in standby mode.

Once you completed this option, press **GREEN** key to confirm the change.

G. Network Setup

[**i**] : MENU (MENU) > Setup > System > Network]

Vu+ is integrated with standard 10/100Mbps Ethernet with RJ 45 connector. You are recommended to use this network capability of Vu+ to fully enjoy the system. You can set up the network settings through this *Network Configuration* menu.



In the *Network Configuration* menu, you will see five sub menus as follows:

① Adapter settings

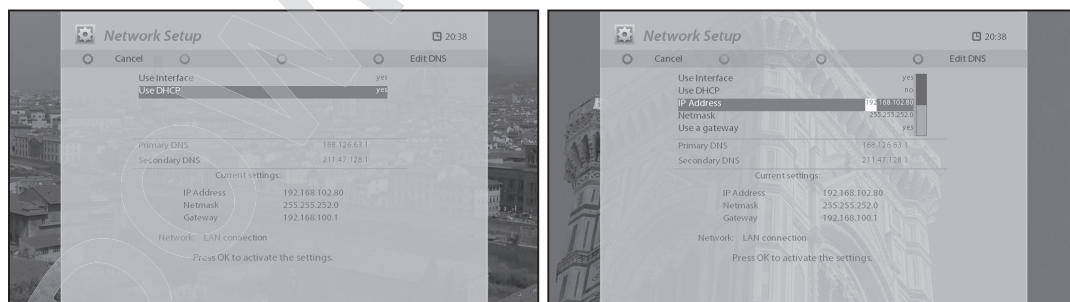
Through this menu, you can set the basic Ethernet configuration.

▪ User Interface

YES is used to activate the Ethernet. If you set this option at **NO**, the Ethernet will not work.

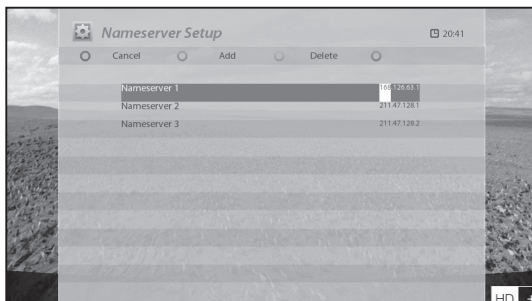
▪ Use DHCP

YES is used to use *DHCP (Dynamic Host Configuration Protocol)*. If you set this option at **YES**, it will automatically detect the correct IP address. **NO** is used when you want to use a certain fixed IP address. In this case, you need to enter correct addresses in each field.



② Nameserver settings

This option is required when you selected not to use DHCP. You need to enter the address of the Nameserver.



③ Network test

When you are not sure whether the network configuration has been done correctly or not, you can run this test.



④ Restart Network

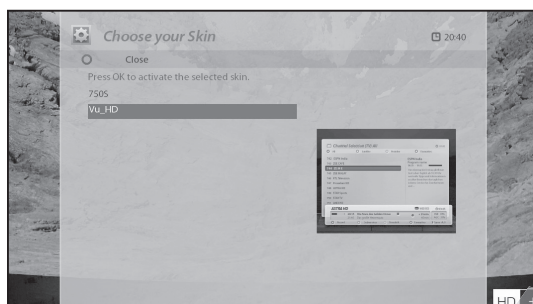
This option is used when you want to reboot the Ethernet of your Vu+.

H. Skin Change

[**i**] : MENU (MENU) > Setup > System > Skin]

Vu+ is a Linux based set top box and there are a lot of Skins available for Linux set top box. Using this menu, you can use a different Skin other than the default one.

NOTE : It takes some minutes since the change of Skin requires a complete system shutdown. Please wait patiently until the system reboots with a newly selected Skin.

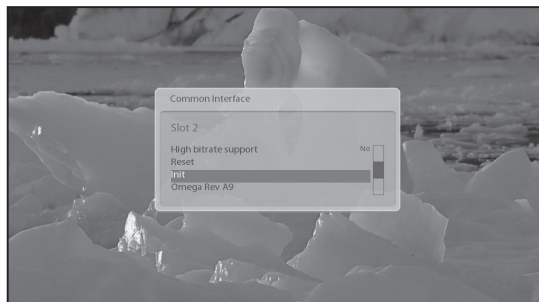


2-3. Checking CAM

[**i**] : MENU (MENU) > Setup > Common Interface]

To be able to watch CAS channels, you need to have a proper CAM and a Smartcard. Vu+ is integrated with two Common Interface slots. If you have two CAM modules and keep them inserted in your Vu+, it will reduce the trouble of changing CAM.

If you have inserted one or two CAMs, you can check the information of the inserted CAMs, through this menu as below:



2-4. Parental Control

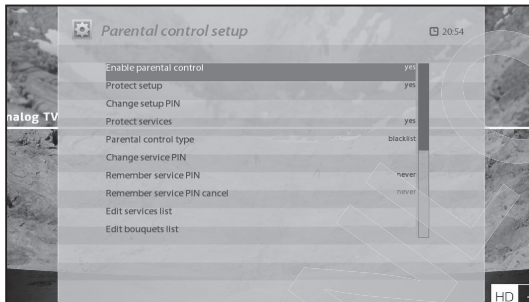
[**i**] : MENU (MENU) > Setup > Parental Control]

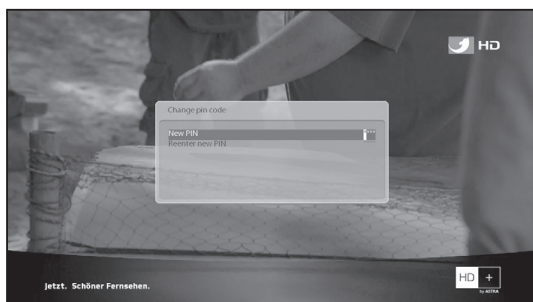
If you want to prevent certain channels from being accessed by others, you can do so using this menu.

- ① Go to Parental Control menu by pressing MENU > Setup > Parental Control.



- ② Set the parental control option at **YES** using LEFT/RIGHT key. The menu will change as below.





■ Protect setup

If you set this option at **YES**, you will be asked to enter PIN code when you enter this **Parental setup** menu.

■ Change setup pin

If you want to change the existing PIN code for Parental setup, you can do so using this menu.

You need to enter a new PIN code twice.

■ Protect services

You need to set this option at **YES**, if you want to lock certain channels with PIN code.

■ Parental control type

This option will be activated only when you set **Protect services** at **YES**. Here there are two options:

- **White list** : This option is used to block all channels except those channels in the parental control list.
- **Black list** : This option is used to block only those channels included in the parental control list.

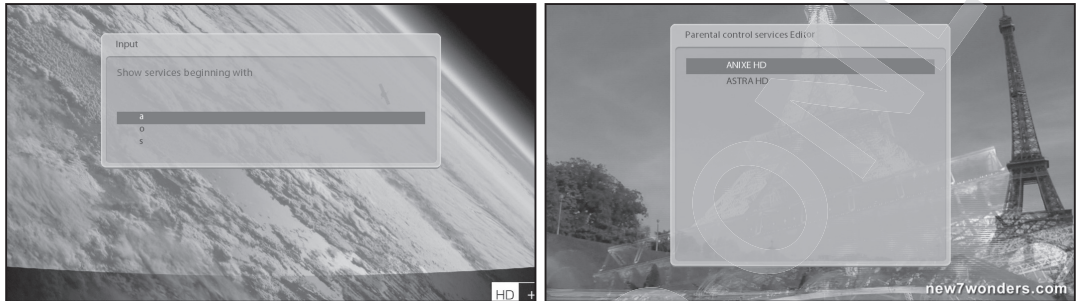
■ Change service pin

Here you can define a PIN code required to change services to be included in the parental control list.

NOTE: PIN code here is used for Change service and thus you are recommended to use a PIN code different from that used for **Protect services**.

- Edit service list

Here you can add services that you want to lock with PIN code. Services will be arranged in the alphabetical order and you can select an alphabet to enter into the list where you can find the channel that you want to lock.



Here, T is selected and TV5 is locked in the list as an example.

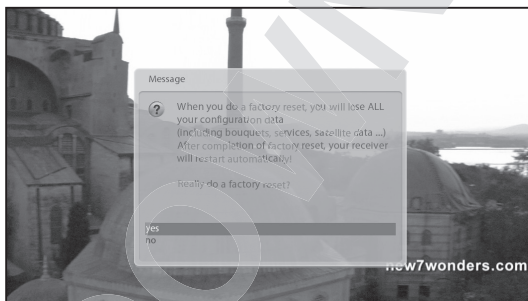
Next time when you or anyone else want to tune into this service, the menu asking for PIN code will appear instantly as below.

NOTE : It is very important not to lose this PIN code.

2-5. Factory Reset

[**i**] : MENU (MENU) > Setup > Factory Reset]

If you want to erase all installed service list as well as all configurations, run the **Factory Reset** process. Select **YES** in the below menu to run the factory reset.



Upon the completion of factory reset process, your Vu+ will reboot automatically and start the **First Time Installation** process.

NOTE : If you do this factory reset, all of your configuration data including bouquets, service lists, satellite parameters, and so on will be erased.

2-6. Checking H/W & S/W Information

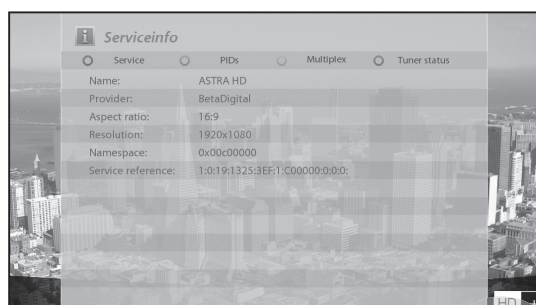
[**i**] : MENU (MENU) > Information]

If you want to check the H/W or S/W system of your Vu+, this is the menu that you need to use. Also, here you can check very detailed information of a specific service.

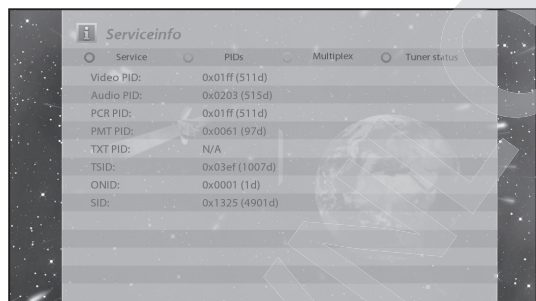
A. Service Information

[**i**] : MENU (MENU) > Information > Service]

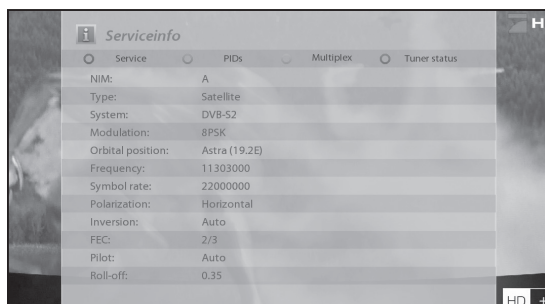
In this menu, you can see all the parameter data of the current channel. The service information is well arranged in four sections as below:



① Service info



② PIDs



③ Transponder

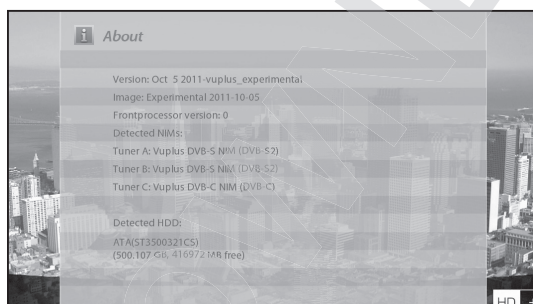


④ Tuner Status

B. System Information

[**i** : MENU **MENU** > Information > About]

This menu is for you to check the current system of your Vu+. You can see the following information:



① S/W version

② Detected NIMs

③ Detected HDD

2-7. Wi-Fi Dongle Installation

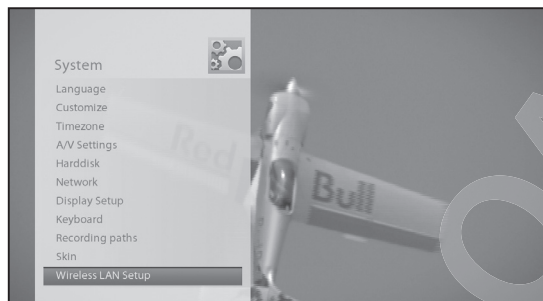
Vu+ provides USB Wi-Fi dongle for convenient network connection. Please read the following guide carefully in order for successful setup.

1. Insert the dongle into the UBS port of Vu+.
2. Turn on the power of Vu+.

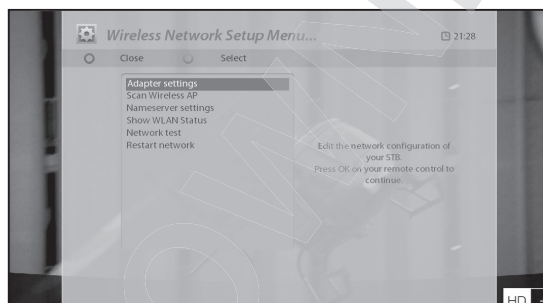
NOTE

- If the set is already turned on, you can try the following sequence as well.
Go to Menu > Standby / Restart > Restart GUI (or Restart).
- "Restart GUI" is displayed on the menu only on Expert mode.
Go to Menu > Setup > System > Customize > Setup Mode. Set the Setup Mode as in "Expert" by using Left/Right button.

3. Go to Menu > Setup > System > Wireless LAN Setup. Press OK.



4. The connected USB Wi-Fi device will be listed. Select the device by pressing "Green" button.
5. Select "Adapter Settings" for wireless configuration.



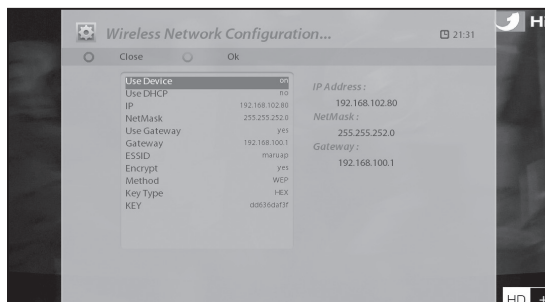
6. Configure each setting by using Left/Right button and save the changed settings by using Green button.

- (a) Use Device: Activate/Deactivate Wireless LAN module.
- (b) Use DHCP: If select "NO", "IP, NETMASK, GATEWAY need to be configured manually.
- (c) ESSID: Select AP
- (d) Input Hidden ESSID: If the AP to select is set as "hidden mode", select "Input hidden ESSID" in "ESSID", and enter ESSID of AP directly.

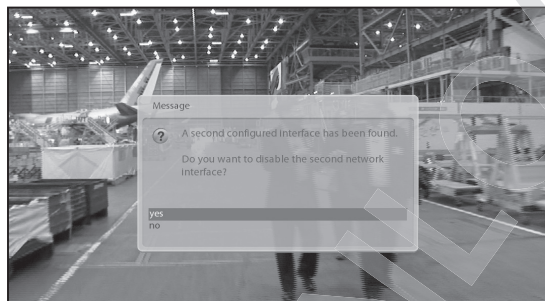
7. Encrypt: If the chosen AP requires wireless security configuration, select “Yes”.

(a) Configuration

- Wireless security method – WEP, WPA, WPA2, WPA-WPA2.
- Key Type – ASCII, HEX
- Network Key

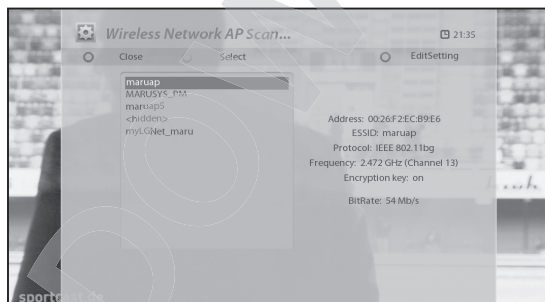


8. If the ethernet is activated, decide whether to deactivate it or not. In order to avoid conflicts between network devices, deactivation is recommended.



9. Select “Scan Wireless AP” to check accessible AP.

(a) Place the highlight bar on the AP to connect, and press “Blue” button to move to “Adapter Setting” menu.



10. You can change the settings of name server in “Nameserver settings”.

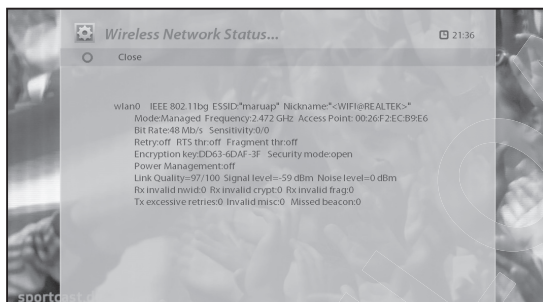
(a) It is possible to add up to 4 name servers by using “Add”(Green) button.

(b) And it is also possible to delete name server by using “Delete” (Yellow) button.

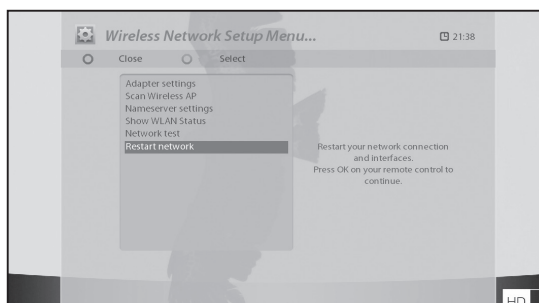
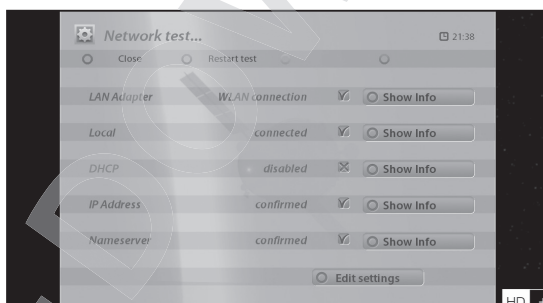


NOTE : If DHCP is used, nameservers are automatically configured.

11. "Show WLAN Status" displays the status of the wireless network that is currently connected.
 (a) If wireless network is not connected, this menu is not to be displayed.



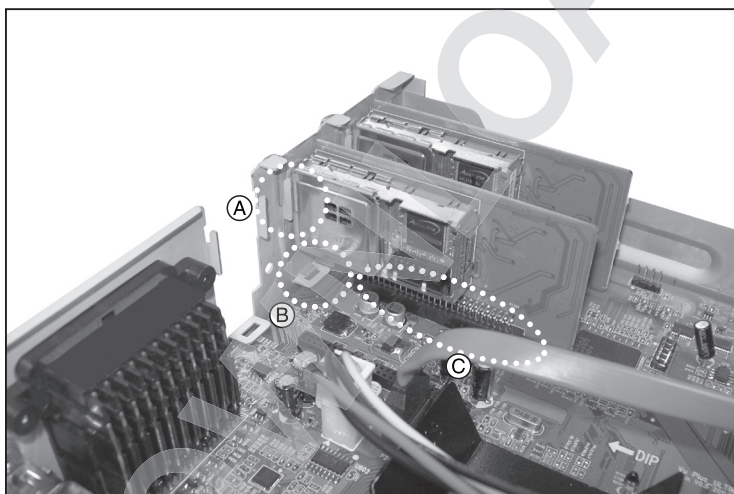
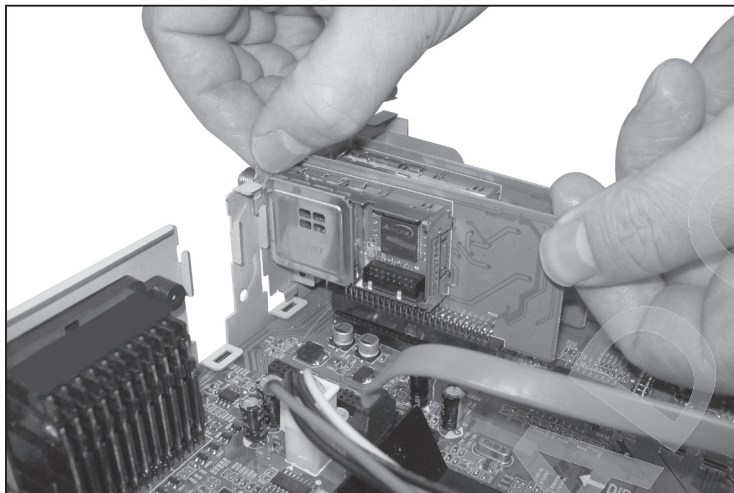
12. Test the network status in "Network test"
 (a) Start the test by using "Green" button.
 (b) After the five test items are finished, you can check further information ("Show Info") on each test item by press "OK".
 (c) If the test result is not satisfactory, try reconfiguring the wireless.
 (d) network setting by selecting "Edit settings" menu.



13. If necessary, it is possible to restart the wireless network connection by "Restart network" menu.

2-8. Inserting Tuner

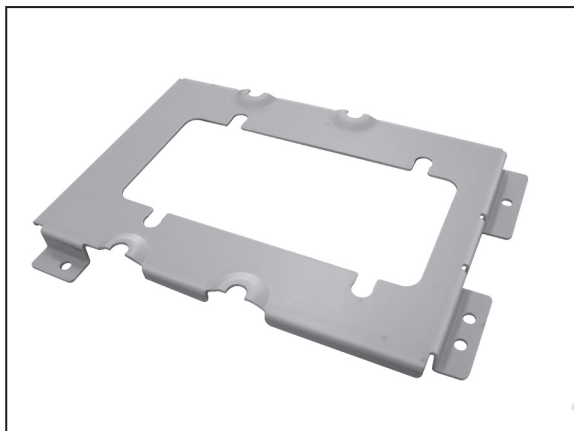
Vu+ Ultimo adopts triple pluggable tuner system. You can additionally purchase DVB-S2 and DVB-C/T Tuner.



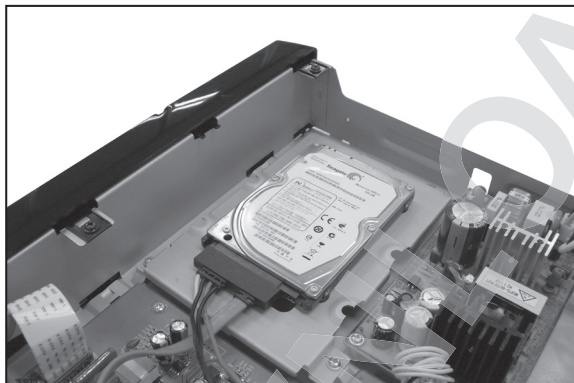
When you install a new tuner, please make sure that three points described in A, B and C be correctly mounted.

2-9. HDD Mounting

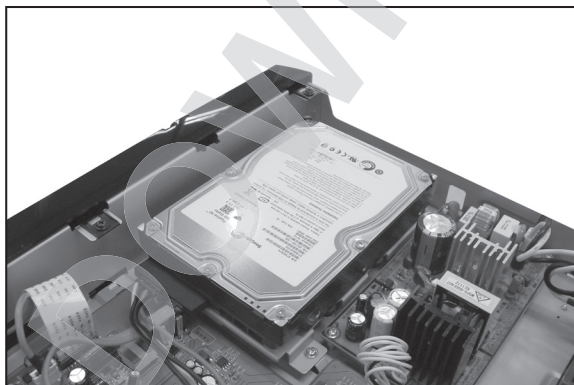
Vu+ HDD bracket is designed to mount 2.5" and 3" HDD.



You can mount 2.5" HDD or 3" HDD using this bracket.



When 2.5" HDD is mounted.



When 3" HDD is mounted.

2-10. Remote Control Unit (RCU) Set-up

Vu+ RCU is a universal RCU that can be used for TV and STB at the same time.

A. User Guide of Vu+ Universal RCU

Pre-note

- << >> means long press
- < > means normal press
- 4 digit code can be found in the TV brand code list of the user manual.

The new RCU of Vu+ is a universal type and you can control your Vu+ STB and TV at the same time. This universal RCU is a modeless design. While offering the basic control functions of your TV (TV Power, Volume +/-, Mute, AV), you can control STB without having to select mode between TV and STB every time. Compared to those universal RCU of mode selection types, the modeless universal RCU of Vu+ is clearly a smarter choice by eliminating unneeded control functions.

1. TV setting

Set-up Sequence: <<1 + 3>>, <4digit brand-code>, <<Mute or Power>>

1. Press number 1 and 3 for three seconds until LED is on.
2. Find your TV brand-code from the TV code list and insert 4 digit code.
 - If you press "0000", Full Automatic Scan will start. This will take a while.
3. Keep Mute button (or Power) pressed until your TV is muted (or turned off).
4. If your TV is muted (or turned off), stop pressing Mute button.
5. Now, your RCU is in test mode and press Volume +/- to check if your TV responds.
6. If the volume buttons are operational, Press <OK + STOP (⏻)> to escape from the set-up mode.

2. AV setting

AV button is for the selection of TV video source. AV button may be automatically set up depending on TV models. In case it is not automatically configured, please follow the instructions below.

Set-up Sequence <<1 + 9>>, <<AV>>

1. Press 1 and 9 for three seconds until LED is turned on.
2. Keep AV button pressed until your TV responds and displays the video input source.
3. If AV button is working, check if AV button is properly working several times.
4. Press <OK + STOP (⏻)> to escape from the set-up mode.

3. RCU Buttons for TV

- * Buttons for TV only: TV Power, AV
- * Buttons switchable between TV and STB: Volume +/- and Mute
 - These buttons are for STB only before the RCU set-up is done.
 - It is switchable only after the configuration is done.
- * All the other buttons are for STB only

4. Mode Switch of Volume +/- and Mute

For the sake of easy volume control, please set the STB volume at 50% of the maximum level and set this level as the default volume level from STB. Then, you just have to control your TV volume only without having to adjust STB volume at the same time.

Set-up Sequence: <<1 + 6>>, <9>, <9>, <3>, <TV Power or STB Power>

1. Press 1 and 6 for three seconds until LED is on.
2. Press <9>, <9>, <3>.
3. If you want to control of TV volume, press TV Power button. If you want to control STB volume, press STB Power button.

5. Reset of TV Set-up

In case you want to reset the configured TV set-up of your RCU,

Press Sequence: <<1 + 6>>, <9>, <9>, <6>

1. Press 1 and 6 for three seconds until LED is on.
2. Press <9>, <9>, <6>.
3. This will reverse the RCU into no configuration state.

6. System Code Change.

You can change the system code of your Vu+ universal RCU according to the Vu+ model that you want to control. The default system code is Mode 2.

Mode 1 : SOLO / DUO

Mode 2 : UNO / Ultimo (*Note : The keyboard of Ultimo remote cannot be used for SOLO,DUO & UNO.)

Mode 3 & 4 : reserved for future models.

Press <<2 + 7>>, <HELP>, <0001 or 0002 or 0003 or 0004>

1. Press 2 and 7 for three seconds until LED is on.
2. Press HELP
3. Press <0001 or 0002 or 0003 or 0004>

DISCLAIMER

Vu+ universal remote controller (RCU) is developed with Philips Electronics. The database used in the Vu+ RCU supports more than 90% of the TV brands available on market. This means that your TV may not be compatible with this universal RCU in some rare cases. In this case, Vu+ RCU can be used only for Vu+ set top box.

B.Function Key Table

Number	Key description	STB mode description	TV mode description
1	STB Power	STB Power Toggle	-
2	TV Power	-	TV Power toggle*
3		STB TELETEXT	-
4		STB SUBTITLE	-
5	AV	-	TV AV*
6	MUTE	STB Mute	TV Mute*
7	Digit 1	STB Digit 1	-
8	Digit 2	STB Digit 2	-
9	Digit 3	STB Digit 3	-
10	Digit 4	STB Digit 4	-
11	Digit 5	STB Digit 5	-
12	Digit 6	STB Digit 6	-
13	Digit 7	STB Digit 7	-
14	Digit 8	STB Digit 8	-
15	Digit 9	STB Digit 9	-
16		STB Delete previous character	-
17	Digit 0	STB Digit 0	-
18		STB Delete next character	-
19	Red	STB Red	-
20	Green	STB Green	-
21	Yellow	STB Yellow	-
22	Blue	STB Blue	-
23	Up	STB Cursor Up	-
24	Left	STB Cursor Left	-
25	OK	STB OK	-
26	Right	STB Cursor Right	-
27	Down	STB Cursor Down	-
28	VOL+	STB Volume up	TV Volume Up*
29	EXIT	STB EXIT	-
30	CH+	STB Channel Up	-
31	VOL-	STB Volume down	TV Volume Down*
32	EPG	STB EPG	-
33	CH-	STB Channel Down	-
34	MENU	STB MENU	-
35		STB ARCHIV	-
36	AUDIO	STB AUDIO	-
37	HELP	STB HELP	-
38	Fast Rewind	STB Fast Rewind	-
39	Play	STB Play	-
40	Pause	STB Pause	-
41	Fast Forward	STB Fast Forward	-
42	TV	STB Go to TV channel list	-
43	Record	STB Record	-
44	Stop	STB Stop	-

* Shall only be available when the user configure the related feature (TV-setup and/or Volume Punch through)

C.TV Code List

Brand ID for Device TV:

A.R. Systems	0012	Ampro	0139
Abex	0014	Amstrad	0140
ABS	0016	Anam	0146
Accent	0019	Anam National	0147
Acer	0028	Andersson	0148
Acoustic Solutions	0032	Anglo	0151
Action	0033	Anitech	0154
Acura	0036	Ansonic	0156
ADA	0038	AOC	0165
ADC	0040	Apex Digital	0170
Addison	0043	Apollo	0171
Admiral	0046	Apple	0172
Advent	0054	Arc En Ciel	0178
Adventura	0055	Arcam	0179
Adyson	0058	Ardem	0184
AEG	0059	Aristona	0192
Agashi	0063	ART	0199
AGB	0064	Arthur Martin	0200
Aiko	0069	ASA	0202
Aim	0070	Asberg	0205
Aiwa	0072	Astar	0218
Akai	0074	Astra	0221
Akashi	0075	Asuka	0227
Akiba	0078	ATD	0229
Akira	0079	Atlantic	0233
Akito	0082	Atori	0237
Akura	0083	Auchan	0240
Alaron	0085	Audiosonic	0264
Alba	0086	Audioton	0266
Albatron	0087	Audiovox	0268
Alcyon	0093	Audioworld	0269
Alienware	0099	Ausind	0276
Allorgan	0105	Autovox	0280
Allstar	0108	Aventura	0287
America Action	0123	Awa	0296
Amoi	0132	Axxon	0303
Amplivision	0138		

Baird	0311
Bang & Olufsen	0314
Barco	0319
Basic Line	0325
Bastide	0327
Baur	0331
Baysonic	0333
Bazin	0335
Beaumark	0340
Beijing	0345
Beko	0346
Belcor	0348
Bell & Howell	0350
Belson	0355
Belstar	0357
BenQ	0359
Beon	0361
Berthen	0363
Best	0364
Bestar	0368
Bestar-Daewoo	0369
Binatone	0378
Black Diamond	0384
Black Star	0386
Blackway	0388
Blaupunkt	0390
Blue Sky	0395
Blue Star	0396
Boca	0399
Bondstec	0403
Boots	0405
BPL	0413
Bradford	0414
Brandt	0416
Brilliant	0422
Brinkmann	0423
Brionvega	0424
Britannia	0425
Brockwood	0430
Broksonic	0432
Bruns	0435
BskyB	0436
BSR	0437
BTC	0439
Bush	0445
Byd:sign	0448

C-Tech	0449
Caihong	0462
Caishi	0465
Candle	0480
Capsonic	0486
Carad	0488
Carena	0489
Carnivale	0491
Carrefour	0492
Carver	0494
Cascade	0496
Casio	0499
Cathay	0501
CCE	0504
Celebrity	0509
Celera	0510
Celestial	0511
Centrex	0516
Centrum	0519
Centurion	0520
Century	0521
CGE	0523
Changcheng	0526
Changfei	0527
Changfeng	0528
Changhai	0529
Changhong	0530
Chun Yun	0545
Chunfeng	0546
Chung Hsin	0547
Chunsun	0549
Cimline	0552
Cinex	0563
Citizen	0567
City	0569
Clarion	0575
Clarivox	0576
Clatronic	0581
Clayton	0582
CMS	0590
CMS Hightec	0591
Coby	0597
Commercial Solutions	0615
Concerto	0625
Concorde	0626
Condor	0627
Conia	0628

Conrowa	0634
Contec	0635
Continental Edison	0637
Cosmel	0647
Craig	0650
Crosley	0655
Crown	0658
CS Electronics	0663
CTC	0664
CTX	0665
Curtis	0666
Curtis Mathes	0667
CXC	0670
CyberPower	0674
Cybertron	0675
Cytron	0680
D-Vision	0684
Daewoo	0692
Dainichi	0694
Dansai	0699
Dantax	0702
Datsura	0703
Dawa	0707
Daytron	0710
De Graaf	0716
DEC	0717
Decca	0718
Deitron	0722
Dell	0725
Denon	0731
Denver	0733
Desmet	0738
Diamant	0746
Diamond	0747
Diamond Vision	0748
Dick Smith Electronics	0750
Digatron	0751
Digihome	0758
Digiline	0759
Digital Life	0772
Digitex	0780
Digitor	0781
DirecTV	0794
Dixi	0807
DL	0810
Domeos	0817
Dongda	0820

Donghai	0821
Drean	0832
DSE	0833
DTS	0837
Dual	0838
Dumont	0840
Durabrand	0842
Dux	0843
DVX	0847
Dwin	0848
DX Antenna	0849
Dynatron	0855
Easy Living	0860
Ecco	0864
ECE	0865
Elbe	0880
Elcit	0883
Electroband	0888
Electrograph	0889
Electrohome	0890
Elektra	0896
Elfunk	0899
ELG	0900
Elin	0902
Elite	0903
Elman	0907
Elta	0910
Emerson	0917
Emperor	0921
Emprex	0922
Envision	0933
Enzer	0934
Epson	0937
Erres	0942
ESA	0943
ESC	0945
Etron	0949
Eurofeel	0954
EuroLine	0955
Euroman	0956
Europa	0957
Europhon	0959
Evesham	0972
Evolution	0973
Excello	0975
Expert	0976
Exquisit	0978

Feilang	0990
Feilu	0991
Feiyue	0993
Fenner	0994
Ferguson	0996
Fidelity	0998
Filsai	1000
Finlandia	1003
Finlux	1004
Firstline	1008
Fisher	1009
Flint	1014
FNR	1016
Formenti	1023
Formenti-Phoenix	1024
Fortress	1027
Fraba	1030
Friac	1040
Frontech	1042
Fujitsu	1052
Fujitsu General	1053
Fujitsu Siemens	1054
Funai	1056
Furichi	1058
Futronic	1061
Futuretech	1064
Galaxi	1068
Galaxis	1069
Gateway	1076
GBC	1078
GE	1081
Geant Casino	1082
GEC	1083
Geloso	1087
General Technic	1095
Genesis	1096
Genexxa	1097
Giant	1113
Gibraltar	1114
Go Video	1126
Goldfunk	1135
GoldHand	1136
Goldline	1138
GoldStar	1140
Goodmans	1142
Gorenje	1144

GP	1147
GPM	1149
GPX	1150
Gradiente	1151
Graetz	1152
Granada	1154
Grandin	1156
Gronic	1160
Grundig	1162
Grunkel	1164
Grunpy	1165
Haaz	1172
Haier	1175
Haihong	1176
Halifax	1179
Hallmark	1180
Hampton	1183
Hankook	1188
Hannspree	1189
Hanseatic	1190
Hantarex	1192
Hantor	1193
Harley Davidson	1197
Harman/Kardon	1198
Harvard	1202
Harwa	1203
Harwood	1204
Hauppauge	1206
Havermy	1208
HCM	1210
Helios	1219
Hello Kitty	1221
Hema	1222
Hemmermann	1223
Hewlett Packard	1229
Hifivox	1233
Higashi	1234
Highline	1236
Hikona	1237
Hinari	1243
Hisawa	1247
Hisense	1249
Hitachi	1251
Hitachi Fujian	1252
Hitec	1253
Hitsu	1257
Hoehner	1262

Hongmei	1272
Hornyphon	1277
Hoshai	1278
Howard Computers	1281
HP	1283
Huafa	1287
Huanghaimei	1288
Huanghe	1289
Huanglong	1290
Huangshan	1291
HuanYu	1292
Huari	1294
Humax	1298
Hush	1304
Hygashi	1308
Hyper	1309
Hypson	1312
Hyundai	1315
Iberia	1320
iBUYPOWER	1322
ICE	1324
ICeS	1325
iLo	1341
Imperial	1346
Indesit	1349
Indiana	1350
Infinity	1352
InFocus	1353
Ingelen	1354
Ingersol	1355
Initial	1356
Inno Hit	1358
Innova	1359
Innovation	1360
Inotech	1364
Insignia	1368
Inteq	1373
Interbuy	1376
Interfunk	1377
Internal	1379
International	1380
Intervision	1386
Irradio	1396
IRT	1397
Isukai	1402
ITC	1404
ITS	1405

ITT	1406
ITT Nokia	1407
ITV	1408
Janeil	1414
JBL	1420
JCB	1421
Jean	1424
JEC	1426
Jensen	1429
Jiahua	1435
Jinfeng	1438
Jinhai	1439
Jinxing	1442
JMB	1445
JNC	1446
Jocel	1448
Jubilee	1460
JVC	1464
Kaisui	1471
Kamp	1475
Kangchong	1476
Kanghua	1477
Kapsch	1483
Karcher	1484
Kathrein	1486
Kawa	1487
Kawasho	1489
KDS	1494
KEC	1496
Ken Brown	1499
Kendo	1500
Kennedy	1504
Kennex	1505
Kenwood	1507
Khind	1511
KIC	1512
Kingsley	1520
Kiota	1522
Kioto	1523
Kiton	1525
KLH	1529
KLL	1531
Kloss	1532
Kneissel	1535
Kolin	1541
Kolster	1543
Konig	1547

Konka	1548
Korpel	1552
Korting	1554
Kosmos	1557
Koyoda	1561
KTV	1572
Kunlun	1578
Kuro	1579
Kyoshu	1583
Kyoto	1585
L&S Electronic	1588
LaSAT	1597
Lavis	1602
Lecson	1606
Lenco	1615
Lenoir	1617
Lesa	1622
Lexsor	1626
Leyco	1627
LG	1628
Liesenk & Tter	1630
Liesenkotter	1631
Lifetec	1633
Linksys	1640
Lloyd's	1648
Local India TV	1653
Local Malaysia TV	1656
Lodos	1659
Loewe	1660
Logik	1661
Logix	1663
Luma	1674
Lumatron	1676
Lux May	1680
Luxman	1682
Luxor	1683
LXI	1686
M Electronic	1688
Madison	1698
MAG	1701
Magnadyne	1702
Magnafon	1703
Magnasonic	1704
Magnavox	1706
Magnin	1708
Magnum	1709
Majestic	1713

Mandor	1717
Manesth	1718
Manhattan	1719
Marantz	1724
Marelli	1729
Mark	1731
Mascom	1738
Mastro	1743
Masuda	1744
Matsui	1750
Matsushita	1751
Maxdorf	1756
Maxent	1757
Maxim	1759
McMichael	1768
Meck	1775
Media Center PC	1777
Mediator	1784
Medion	1787
Medison	1788
Megapower	1791
Megatron	1795
MEI	1796
Melvox	1799
Memorex	1800
Memphis	1802
Mercury	1804
Mermaid	1806
Metronic	1809
Metz	1810
MGA	1811
Micromaxx	1822
Microsoft	1826
Microstar	1827
MicroTEK	1829
Midland	1831
Mikomi	1833
Minato	1835
Mind	1837
Minerva	1838
Minoka	1840
Mintek	1845
Minutz	1847
Mitsubishi	1855
Mivar	1857
Monivision	1872
Morgan's	1875

Motion	1877
Motorola	1878
MTC	1889
MTEC	1890
MTlogic	1892
Mudan	1896
Multistandard	1904
Multitec	1906
Multitech	1907
Murphy	1911
Musikland	1915
Myryad	1922
NAD	1926
Naiko	1930
Nakimura	1933
Naonis	1936
NAT	1941
National	1942
NEC	1950
Neckermann	1951
NEI	1952
Nesco	1960
Netsat	1966
NetTV	1967
Network	1968
Neufunk	1970
New Tech	1979
New World	1980
Newave	1981
Nicamagic	1994
Nikkai	1998
Nikkei	1999
Nikko	2000
Nintaus	2006
Niveus Media	2012
Noblex	2013
Nobliko	2014
Nogamatic	2016
Nokia	2017
Norcent	2020
Nordic	2021
Nordmende	2022
Normerel	2024
Northgate	2027
Norwood Micro	2029
Novatronic	2035
NTC	2045

Nu-Tec	2048
NuVision	2053
Oceanic	2061
Okano	2065
Olevia	2067
Omni	2074
Onida	2081
Onimax	2082
Onwa	2087
Opera	2090
Oppo	2092
Optimus	2095
Optoma	2097
Optonica	2099
Orbit	2103
Orion	2111
Online	2113
Ormond	2114
Orsowe	2116
Osaki	2118
Osio	2121
Oso	2122
Osume	2123
Otic	2125
Otto Versand	2126
Pacific	2135
Packard Bell	2138
Pael	2140
Palladium	2145
Palsonic	2147
Panama	2149
Panasonic	2153
Panavision	2154
Panda	2155
Pathe Cinema	2168
Pathe Marconi	2169
Pausa	2171
Peng Sheng	2181
Penney	2182
Perdio	2185
Perfekt	2186
Petters	2189
Philco	2192
Philharmonic	2194
Philips	2195
Phocus	2198
Phoenix	2199

Phonola	2201
Phonotrend	2202
Pilot	2207
Pioneer	2212
Pionier	2213
Plantron	2219
Playsonic	2224
Polaroid	2230
Poppy	2236
Portland	2238
Powerpoint	2241
Precision	2244
Premier	2248
President	2250
Prima	2253
Princeton	2258
Prinston	2259
Prinz	2260
Prism	2261
Profex	2269
Profilo	2272
Profitronic	2273
Proline	2274
Promax	2275
Proscan	2279
Proscoc	2280
Prosonic	2282
Protech	2284
Proton	2288
Protron	2289
Proview	2290
ProVision	2291
Pulsar	2296
Pye	2302
Pymi	2304
Qingdao	2308
Quasar	2320
Quelle	2322
Questa	2324
R-Line	2327
Radialva	2329
Radiola	2330
Radiomarelli	2331
Radionette	2332
RadioShack	2333
Radiotone	2334
Rank	2345

Rank Arena	2346
RBM	2350
RCA	2351
Realistic	2354
Recco	2358
Recor	2359
Rectiligne	2362
Rediffusion	2364
Redstar	2366
Reflex	2368
Relisys	2374
Remotec	2377
Reoc	2379
Revox	2383
Rex	2385
RFT	2386
Rhapsody	2387
Ricavision	2388
Rinex	2392
Roadstar	2398
Robotron	2401
Rolson	2410
Rowa	2416
Royal Lux	2420
Runco	2423
Saba	2429
Sagem	2434
Saisho	2437
Saivod	2439
Salora	2443
Sambers	2445
Sampo	2446
Samsung	2448
Samsux	2449
Sandra	2454
Sansui	2458
Sanyo	2462
Sanyuan	2464
SBR	2492
Sceptre	2498
Schaub Lorenz	2500
Schneider	2501
Scimitsu	2505
Scotch	2506
Scott	2508
Sears	2514
Seaway	2515

Seelver	2520
SEG	2522
SEI	2524
Sei-Sinudyne	2525
Seleco	2528
Semivox	2529
Semp	2530
Sencora	2531
Sentra	2534
Serie Dorada	2538
Serino	2539
Shanghai	2547
Shaofeng	2549
Sharp	2550
Shencai	2553
Sheng Chia	2554
Shenyang	2555
Sherwood	2557
Shintoshi	2564
Shivaki	2567
Shogun	2568
Shorai	2569
Siam	2572
Siarem	2573
Siemens	2574
Siera	2576
Siesta	2577
Signature	2582
Silva	2591
Silva Schneider	2592
Silver	2594
SilverCrest	2595
Simpson	2598
Singer	2599
Sinotec	2600
Sinudyne	2601
Skantic	2605
SKY	2610
Skysonic	2627
Skyworth	2631
SLX	2638
Sogera	2649
Solavox	2654
Sole	2655
Sonawa	2663
Soniko	2669
Sonitron	2671

Sonneclair	2673
Sonoko	2675
Sonolor	2676
Sontec	2677
Sony	2679
Sound & Vision	2680
Soundesign	2684
Soundwave	2689
Sova	2690
Sowa	2691
Soyea	2692
Soyo	2693
Spectroniq	2701
Squareview	2703
SSS	2708
Stack 9	2710
Standard	2713
Starlite	2728
Stenway	2739
Stern	2741
Strato	2745
Strong	2748
Studio Experience	2750
Stylandia	2752
SunBrite	2759
Sunkai	2762
Sunny	2764
Sunstar	2768
Sunwood	2772
Superla	2782
Superscan	2786
Supersonic	2787
SuperTech	2789
Supervision	2791
Supra	2792
Supre-Macy	2794
Supreme	2795
Susumu	2797
Sutron	2798
SVA	2800
Svasa	2801
Swisstec	2806
Sydney	2808
Sylvania	2809
Symphonic	2810
Synco	2811
Syntax	2814

Sysline	2815
Systemax	2817
Sytong	2820
Tacico	2823
Tactus	2825
Tagar Systems	2831
Taishan	2835
Talent	2838
Tandberg	2842
Tandy	2843
Tashiko	2850
Tatung	2852
TCL	2856
TCM	2857
Teac	2860
Tec	2861
Tech Line	2863
Techica	2865
Technema	2866
Technica	2868
Technics	2869
Technika	2870
TechniSat	2873
Technisson	2874
Technol Ace	2875
Technosonic	2878
Techview	2883
Techwood	2884
Tecnimagen	2885
Teco	2886
Tedelex	2889
Tek	2892
Teknika	2895
Teleavia	2901
Telecor	2910
Telefunken	2914
Telefusion	2915
Telegazi	2917
Telemeister	2924
Telesonic	2930
Telestar	2931
Teletech	2934
Teleton	2935
Televideon	2938
Televiow	2939
Televiso	2941
Temco	2946

Tennessee	2952
Tensai	2954
Tenson	2955
Tevion	2962
Texet	2963
Thomas	2971
Thomson	2972
Thorn	2974
TMK	2994
TML	2995
TNCi	2996
Tobo	2999
Tokai	3001
Tokaido	3002
Tokyo	3004
Tomashi	3006
Topline	3016
Toshiba	3021
Totevision	3024
Touch	3025
Towada	3028
Toyoda	3030
Trakton	3036
Trans Continens	3037
TRANS-continents	3039
Transonic	3041
Transtec	3042
Triad	3049
Trident	3054
Tristar	3057
Triumph	3058
TVS	3081
TVTEXT 95	3082
Uher	3089
Ultra	3093
Ultravox	3095
Unic Line	3100
United	3106
Universal	3113
Universum	3115
Univox	3116
US Logic	3124
Vector Research	3137
Venturer	3143
VEOS	3144
Vestel	3148
Vexa	3149

Vibrant	3154
Victor	3155
Videocon	3163
Videologic	3165
Videologique	3166
Videosat	3170
VideoSystem	3172
Videotechnic	3173
Videoton	3174
Vidikron	3178
Vidtech	3179
Viewsonic	3186
Viking	3188
Viore	3192
Visiola	3197
Vision	3198
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VI. Menu Structure

Main menu				
1st level	2nd level	3rd level	4nd level	5nd level
Media player	Media Player			
Timer	Timer List			
Information	Service	Service info		
	About	About		
Plugins	Plugin browser			
Setup	Service Searching	Tuner Configuration	Tuner A,B,C	
		Default Service lists		
		Automatic Scan	Service scan Window	
		Manual Scan	Service scan Window	
		Language	Language Selection Window	
		Customize	Customize Window	
		Timezone	Timezone Window	
		Harddisk	Harddisk setup	Harddisk setup
			Initialization	Initialization
			Filesystem Check	Filesystem Check
		A/V Settings	A/V Settings Window	
		Display Setup	Display Setup Window	
		Network	Network Configuration Window	
		Keyboard	Keyboard Setup Window	
		Skin		
	Common Interface			
	Parental control	Parental control setup		
	Factory reset			
Standby / Restart	Sleep Timer			
	Standby			
	Restart			
	Deep Standby			

VII. Troubleshooting

Before you contact your local service center, please read the following tips carefully.

NOTE : if the antenna is covered with snow or the RF signal is weakened by heavy rain, the quality of audio and video may become temporarily poor. If you experience poor audio and video quality due to bad weather conditions, please check if your satellite antenna is oriented in the original direction. And see if it is covered by snow. Also, check if your LNB is not damaged.

1. No video on TV

- Check first if the product is powered on and in operation mode.
- Check if the video cable is properly connected between TV and Vu+.
- Check if the satellite cable is properly connected to Vu+.
- Check if the selected channel is currently on air.
- Check if the selected channel is encrypted and if you have a corresponding access smartcard.

2. Problem with audio quality

- Check if your audio cable is connected correctly.
- Check the volume level of your TV and Vu+.
- Check if Vu+ or TV is on mute.
- Check the audio option if it is correctly selected for the program that you are currently watching.

3. Remote control problem

- Check if the batteries are correctly mounted.
- If your remote control has been used for long, change the batteries.
- Point the remote control directly toward Vu+.
- Make sure that nothing blocks the front panel display.

4. Channel search problem

- Make sure if tuner configurations are all correctly made.
- Check if the antenna cable(s) are properly connected.

5. Encrypted channel viewing problem

- Check if you have the appropriate Smartcard and/or CAM.
- Take the Smartcard and CAM out and re-insert them to re-initialize.
- Check if your system correctly detects the smartcard and CAM.

6. Recording problem

- Check if the HDD has a sufficient space for recording.
- Check if there is a conflict between recording timer.

7. Noise

- Vu+ has an integrated FAN. This may create a noise but is inevitable to make sure the safety of the product.
- Also, when HDD is running, you may hear a noise.

VIII. Glossary

8PSK	8-PSK is usually the highest order PSK constellation deployed. With more than 8 phases, the error-rate becomes too high and there are better, though more complex, modulations available such as quadrature amplitude modulation (QAM). Although any number of phases may be used, the fact that the constellation must usually deal with binary data means that the number of symbols is usually a power of 2 — this allows an equal number of bits-per-symbol.
CAM	Conditional Access Module is an electronic device, usually incorporating a slot for a smart card, which equips an Integrated Digital Television or set-top box with the appropriate hardware facility to view conditional access content that has been encrypted using a conditional access system. They are normally used with direct broadcast satellite (DBS) services.
Composite Video	Composite video is the format of an analog television (picture only) signal before it is combined with a sound signal and modulated onto an RF carrier. Composite video is often designated by the CVBS acronym, meaning "Color, Video, Blank and Sync". In German (with PAL being a German invention by Telefunken's Walter Bruch) the abbreviation FBAS (Farbe-Bild-Austastung-Synchron) means the same. It is usually in standard formats such as NTSC, PAL, and SECAM. It is a composite of three source signals called Y, U and V (together referred to as YUV) with sync pulses. Y represents the brightness or luminance of the picture and includes synchronizing pulses, so that by itself it could be displayed as a monochrome picture. U and V represent hue and saturation or chrominance; between them they carry the color information. They are first modulated on two orthogonal phases of a color carrier signal to form a signal called the chrominance. Y and UV are then combined. Since Y is a baseband signal and UV has been mixed with a carrier, this addition is equivalent to frequency-division multiplexing.
Conditional Access System	Several companies provide competing Conditional Access Systems; Irdeto Access, Nagravision, Viaccess, Verimatrix and NDS are among the most commonly used CAS systems.
DiSEqC	Stands for Digital Satellite Equipment Control. It is a special communication protocol for use between a satellite receiver and a device such as a multi-dish switch or a small dish antenna rotor. DiSEqC was developed by European satellite provider Eutelsat, which now acts as the standards agency for the protocol.
EPG	Electronic Program Guide is a digital guide to scheduled broadcast television or radio programs, typically displayed on-screen with functions allowing a viewer to navigate, select, and discover content by time, title, channel, genre, etc. by use of their remote control, a keyboard, or other input devices such as a phone keypad. Content can also be scheduled for future recording by a personal video recorder (PVR). The on-screen information may be delivered by a dedicated channel or assembled by the receiving equipment from information sent by each program channel.

eSATA	A variant of SATA meant for external connectivity with the following characteristics: * Minimum transmit potential: Range is 500–600 mV. * Minimum receive potential: Range is 240–600 mV. * Identical protocol and logical signaling (link/transport-layer and above), allowing native SATA devices to be deployed in external enclosures with minimal modification.
FEC	Stands for Forward Error Correction. This is a system of error control for data transmission, whereby the sender adds redundant data to its messages, also known as an error-correction code. This allows the receiver to detect and correct errors (within some bound) without the need to ask the sender for additional data. The advantages of forward error correction are that a back-channel is not required and retransmission of data can often be avoided (at the cost of higher bandwidth requirements, on average).
HDMI	Stands for High-Definition Multimedia Interface. It is a compact audio/video interface for transmitting uncompressed digital data. HDMI connects digital audio/video sources—such as set-top boxes, Blu-ray Disc players, personal computers (PCs), video game consoles (such as the PlayStation 3 and some models of Xbox 360), and AV receivers—to compatible digital audio devices, computer monitors, and digital televisions. As an uncompressed connection, HDMI is independent of the various digital television standards used by individual devices, such as ATSC and DVB, as these are encapsulations of compressed MPEG video streams (which can be decoded and output as an uncompressed video stream on HDMI).
LNB	Stands for Low-Noise Block converter. This is the (receiving, or downlink) antenna of what is commonly called the parabolic satellite dish commonly used for satellite TV reception. The LNB is usually fixed on or in the satellite dish. The purpose of the LNB is to take a wide block (or band) of relatively high frequencies, amplify and convert them to similar signals carried at a much lower frequency (called intermediate frequency or IF). These lower frequencies travel through cables with much less attenuation of the signal, so there is much more signal left on the satellite receiver end of the cable. It is also much easier and cheaper to design electronic circuits to operate at these lower frequencies, rather than the very high frequencies of satellite transmission.
PID	Stands for Packet Identifier. This is a set of numbers identifying stream packets contained within a single data stream
Polarization	The orientation of the electrical and magnetic fields of a signal. Satellites use mainly vertical and horizontal polarization.
S/PDIF	Stands for Sony/Philips Digital Interconnect Format. A common use for the S/PDIF interface is to carry compressed digital audio as defined by the standard IEC 61937. This mode is used to connect the output of a DVD player to a home theater. Another common use is to carry uncompressed digital audio from a CD player to a receiver. This specification also allows for the coupling of personal computer digital sound (if equipped) via optical or coax to receivers.

SCART	A French-originated standard and associated 21-pin connector for connecting audio-visual (AV) equipment together. SCART is one of the most common method of connecting audio-visual equipment together. However, transferring analogue standard-definition content, SCART is becoming obsolete with the introduction of new digital standards such as HDMI, which can also carry high-definition content and multichannel audio.
Smartcard	A pocket-sized card with embedded Integrated Circuits which can process data. It can receive input which is processed and delivered as an output. The card may embed a hologram to avoid counterfeiting. It is used for accessing encrypted TV channels or services.
Teletext	A television information retrieval service developed in the United Kingdom in the early 1970s. It offers a range of text-based information, typically including national, international and sporting news, weather and TV schedules. Subtitle (or closed captioning) information is also transmitted in the teletext signal, typically on page 888 or 777.
Xcrypt	One of the Conditional Access Systems by Xcrypt.
YPbPr	A color space used in video electronics, in particular in reference to component video cables. YPbPr is the analog version of the YCBCR color space; the two are numerically equivalent, but YPBPR is designed for use in analog systems whereas YCBCR is intended for digital video. YPbPr is commonly called "component video", but this is a misnomer, as there are many other types of component video (mostly RGB with sync either on green or one or two separate signals). YPbPr is converted from the RGB video signal, which is split into three components, Y, PB, and PR. * Y carries luma (brightness) and sync information. * PB carries the difference between blue and luma (B - Y). * PR carries the difference between red and luma (R - Y). Sending a green signal would be redundant, as it can be derived using the blue, red and luma information.