Introduction

Dear customer,

Thank you for choosing Xtrend.

This user manual will assist you to install the Xtrend box successfully and to get familiar with numerous features.

The Xtrend ET7500 and ET7000 is a new generation of Full HD Linux receiver with 2,000 DMIPS, 512MB DDR3, and an eSATAp port, which you can also use as an USB port. You can experience unlimited possibilities with the new Xtrend receivers.

The ET7500 and ET7000 allow you to experience various features such as web browser, media player, HbbTV, and other multimedia features.

In order to extend your experience, you can install various plugins on your Xtrend box.

We strongly recommend reading the user manual before using your Xtrend box.

For any further questions, please visit http://www.et-view.net

We wish you a great experience with your Xtrend Box.

Best regards,

Xtrend Team

Table of Contents

(A) Safety Instructions

This Linux Set-Top-Box 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 AC 100V~250V 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 vases 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 & 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 uncontrolled waste disposal.

Dolby Digital: Manufactured under license from Dolby Laboratories. 'Dolby' and the 'double-D' symbol are trademarks of Dolby Laboratories.

MP3: MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson

(B) Main Features

ET7000/ET7500

- 2,000 DMIPS CPU Processor
- 1 x integrated DVB-S2 Tuner (ET7000)
- 1 x integrated DVB-S2 Tuner and 1 x Plug & Play tuner slot for DVB-C, DVB-S2, or hybrid DVB-T2 Tuner (ET7500)
- Resolution: 1080p, 1080i, 720p, 576p, 576i
- Digital tone with AC-3-support via S/PDIF
- 12 Digit-Dot Matrix VFD (ET7500)
- eSATAp + USB Port in one (eSATAp Port provides power supply for external eSATA hard drives)
- 1 x Common Interface
- 1 x Smartcard Reader (ET7000)
- 2 x Smartcard Reader (ET7500)
- Power Touch-button with 2 LED (ET7500)
- User-friendly Linux Menu system
- Various Channel editing programs
  (Favorite, lock, rename, delete, and sort)
- Fully compatible with MPEG2/4 and DVB-S/S2
- Easy and fast Software-Upgrade via USB or Internet
- 512MB DDR 3/256MB Nand Flash
- 10/100MB Ethernet Interface
- 2.5" internal HDD Support (ET7500)
- HDMI CEC Support
- Unicable Support
- Play Multimedia files in HD quality.
- EPG Support
- Multi LNB support via DiSEqC 1.0, 22 kHz
- Video connections: HDMI, RCA

(C) Specification

	Property	ET7000	ET7500
CPU/Memory	CPU	2,000 DMIPS	2,000 DMIPS
	Nand Flash	256MB	256MB
	DDR 3	512MB	512MB
FRONT PANEL	Display	2-LED	VFD(dot Matrix)
I/O PORTS	USB	1 port	1 port
	SMART CARD	1 port	2 port
	CI SLOT	X	1 port
	BUTTON	1 port	1 port(Touch/2led)
	IR	1 port	1 port
REAR PANEL I/O PORTS	Power	Adapter (12V 2A)	Adapter (12V 2A)
	CI SLOT	1 port	X
	RCA AV Out	CVBS	CVBS
		Audio R/L	Audio R/L
	S/PDIF	OPTICAL	OPTICAL
	Tuner	1xFixed	1xFixed +
			1xPlug&Play
	LAN(RJ45)	1Port(10/100M)	1Port(10/100M)
	e-SATAP/USB 2.0	1 port	1 port
	HDMI Output	1 port	1 port
	HDD	X	2.5"
	Dimension (L x W x H)	211 x170x 40mm	260x213x45mm

(D) Packaging Contents (ET7000)
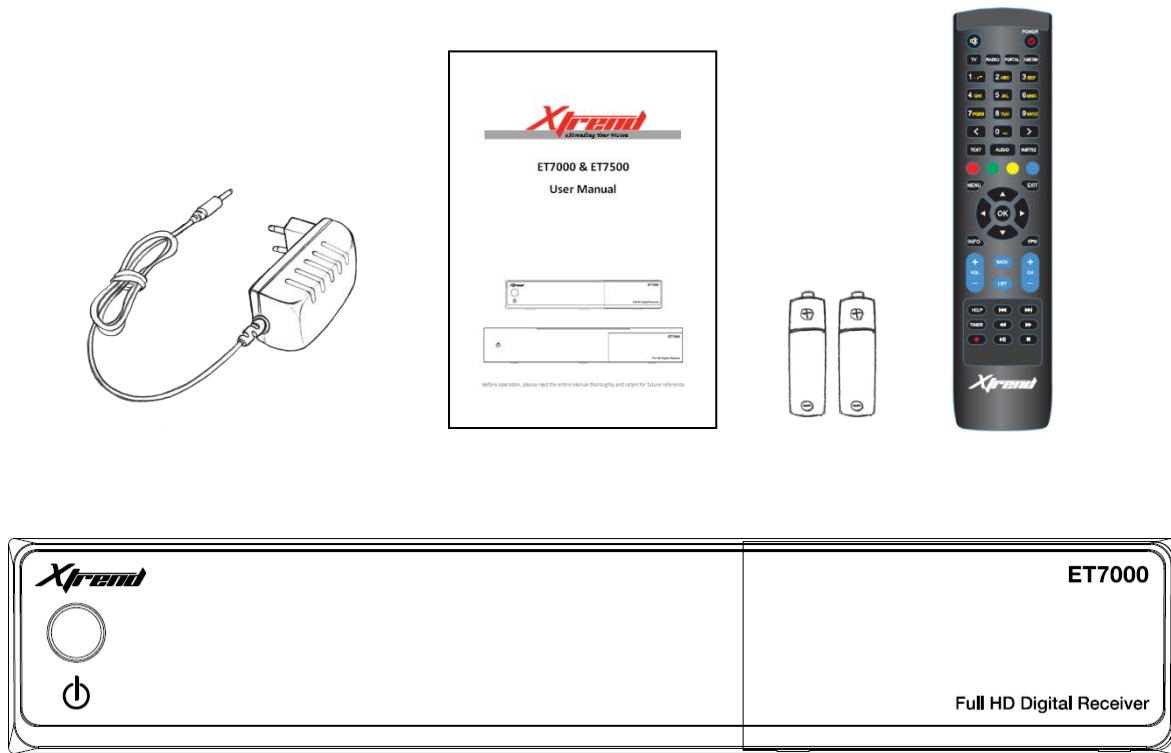
Please check all package contents before using your product.
- STB
- Remote Control
- Batteries
- User Manual
- DC Power Adapter

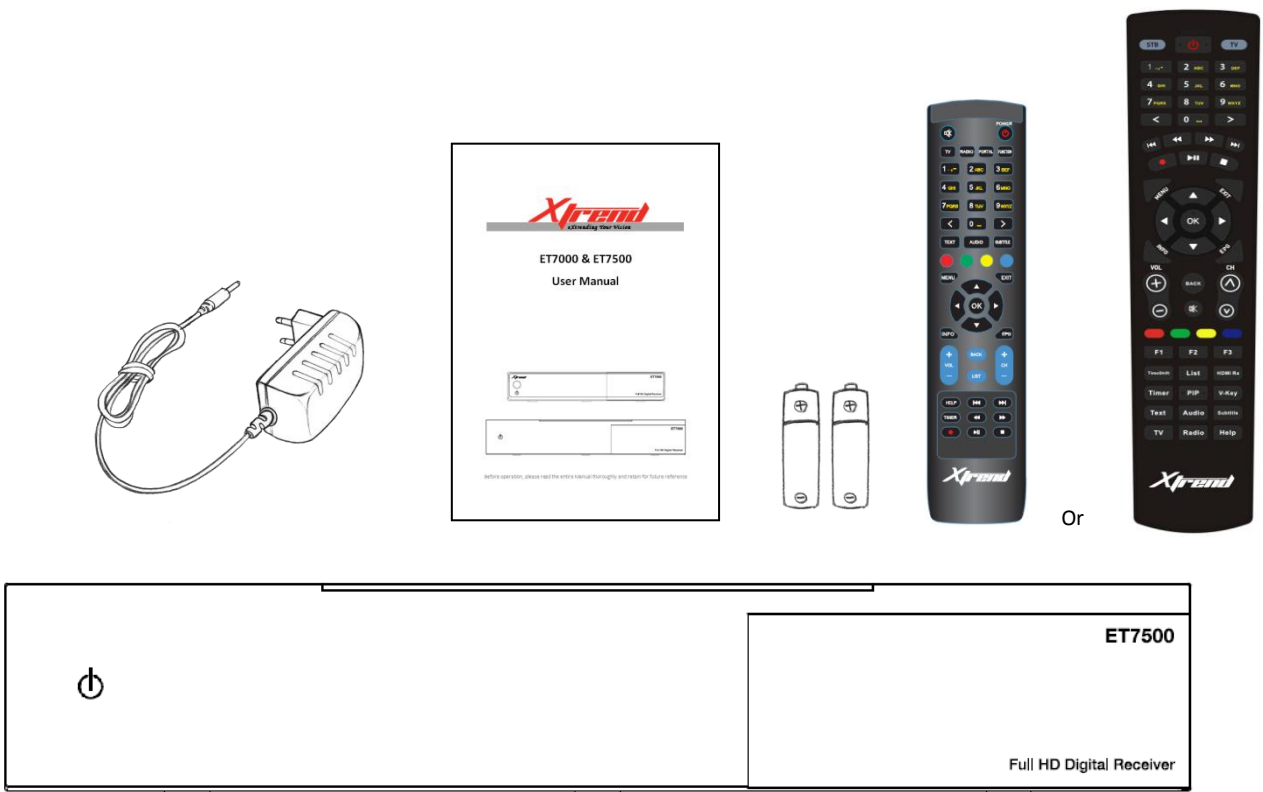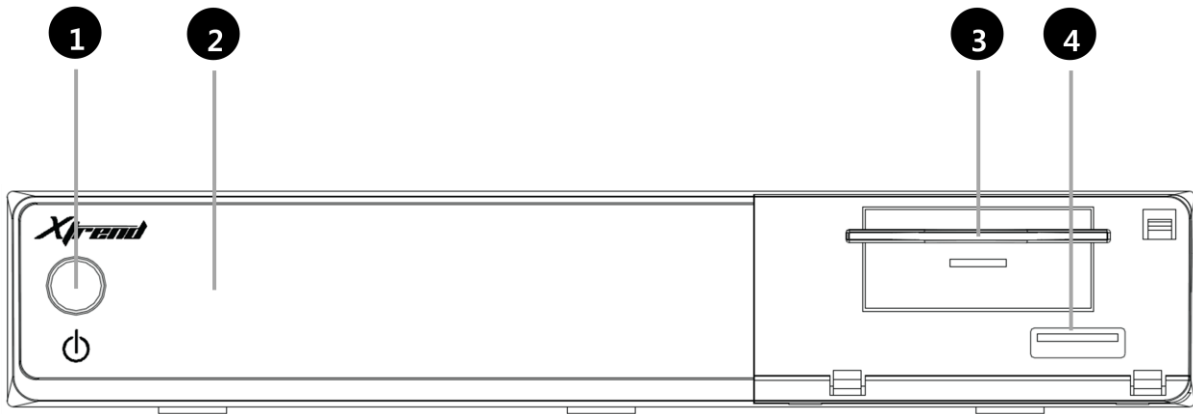## Packaging Contents (ET7500)

Please check all package contents before using your product.

- STB
- Remote Control
- Batteries
- User Manual
- DC Power Adapter
- Sata Cable
- HDD bracket (installed)
- Screws for HDD

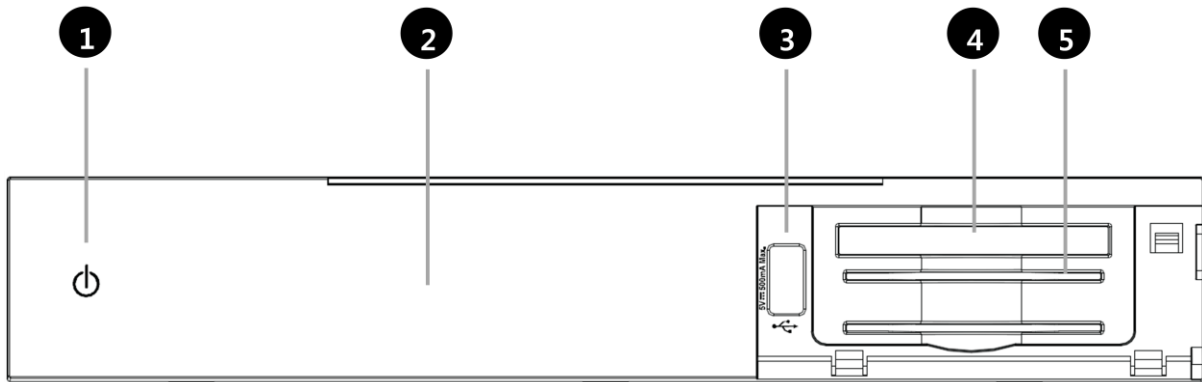# (E)   Product Descriptions

Front Panel (ET7000)

1.   **Power :** Sets your Xtrend box into standby mode

2.   **2 LED :** Red LED will be displayed when booting/ Green LED will be displayed during operation

3.   **Smartcard reader slot:** Insert a Smartcard

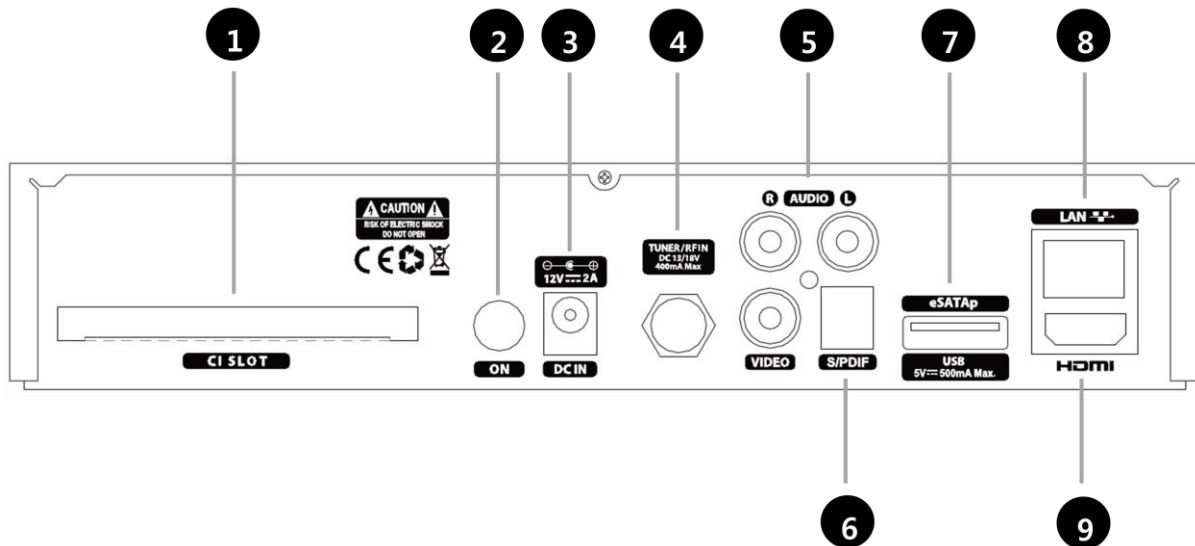4.   **USB:** Connect a USB storage device

Product Descriptions

Front Panel (ET7500)


1. **Power :** Sets your Xtrend box into standby mode

2. **Display:** Displays the current menu information. 12 character dot matrix VFD.

3. **USB :** Connect a USB storage device

4. **CI Module slot:** Insert a CAM

5. **Smartcard reader slot:** Insert 2 Smartcards

Rear Panel (ET7000)

1. **CI Module slot:** Insert a CAM

2. **On/Off Switch:** Power on/off.

3. **Power Input :** Connect DC Power Adapter

4. **TUNER :** DVB-S/S2 integrated

5. **Composite (CVBS, L, R) :** Video/Audio connection via RCA

6. **S/PDIF :** Digital Output

7. **e-SATAp :** Connect external E-SATA device or USB-storage device

8. **Ethernet Port :** Connect LAN connection 10/100 Mbit

9. **HDMI out :** HDMI output to connect to your Television

Rear Panel (ET7500)
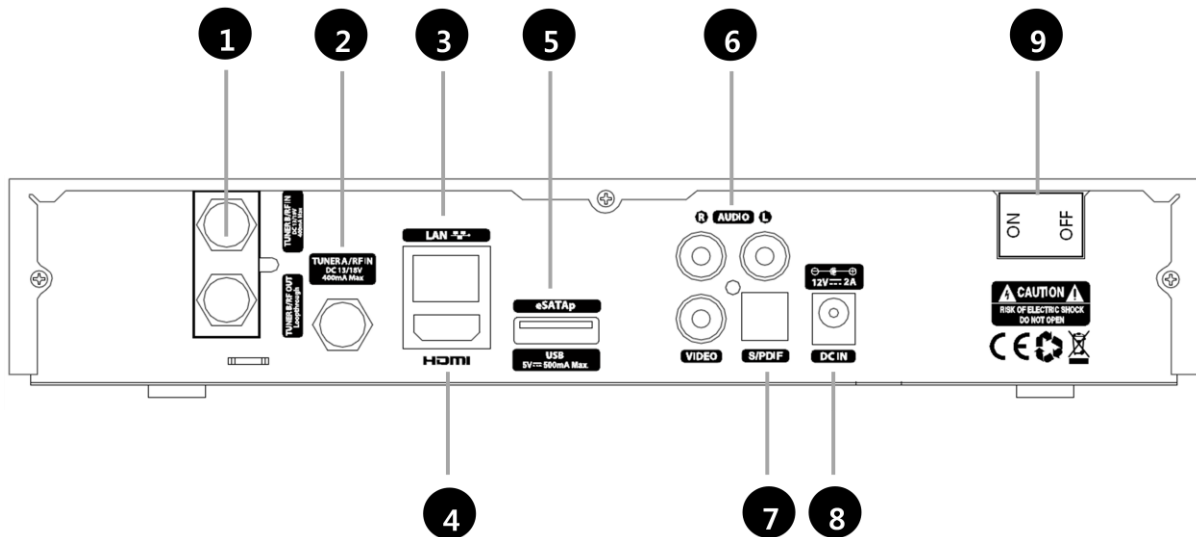
1. **TUNER   B :** Plug & Play Tuner Slot for DVB-C/T/T2/S/S2

2. **TUNER   A :** Single Tuner DVB-S/S2 integrated

3. **Ethernet Port :** Connect LAN connection 10/100 Mbit

4. **HDMI out :** HDMI output to connect to your Television

5. **e-SATAp :** Connect external E-SATA device or USB-storage device

6. **Composite (CVBS, L, R) :** Video/Audio connection via RCA

7. **S/PDIF :** Digital Output

8. **POWER input :** Connect DC Power Adapter

9. **On/Off Switch:** Power on/off.

(F)   Smartcard Reader & CAM

ET7000 provides a Smartcard Reader slot and ET7500 provides two Smartcard Reader slots.

Insertion of Smartcard

① Open the door on the right.

② Insert Smartcard as the image below
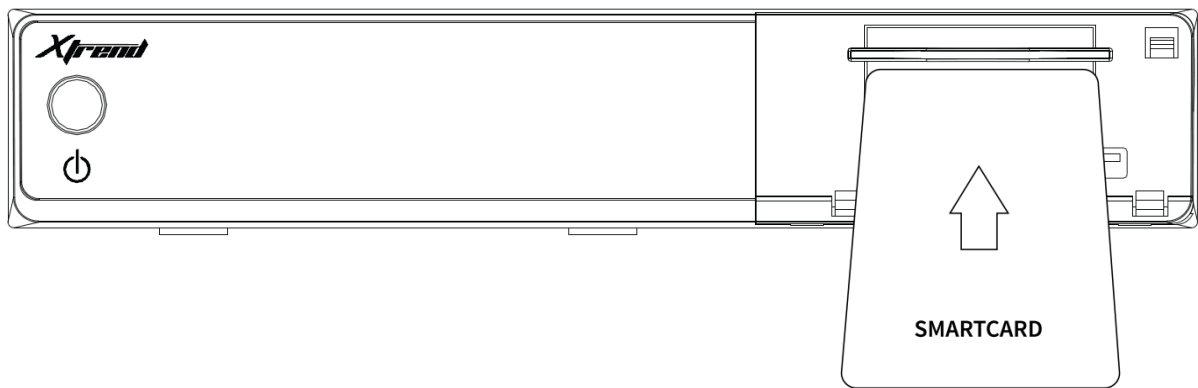
[ET7000]
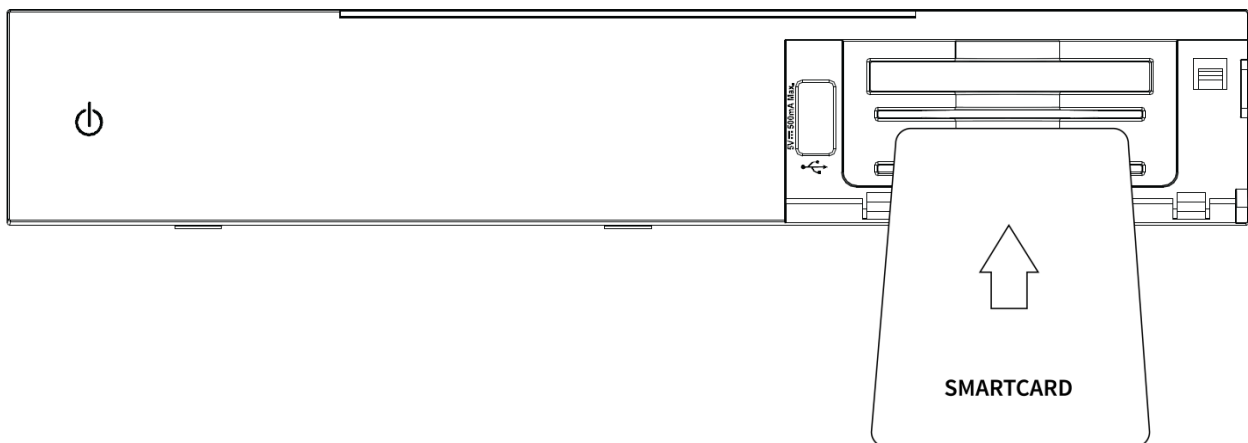
[ET7500]

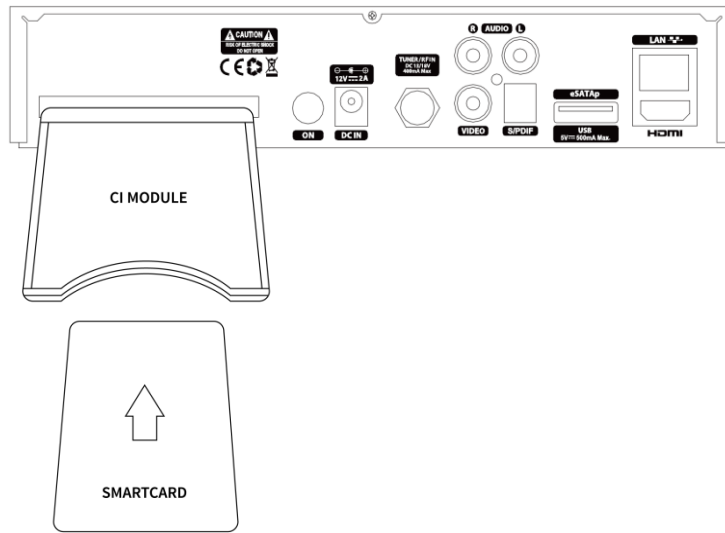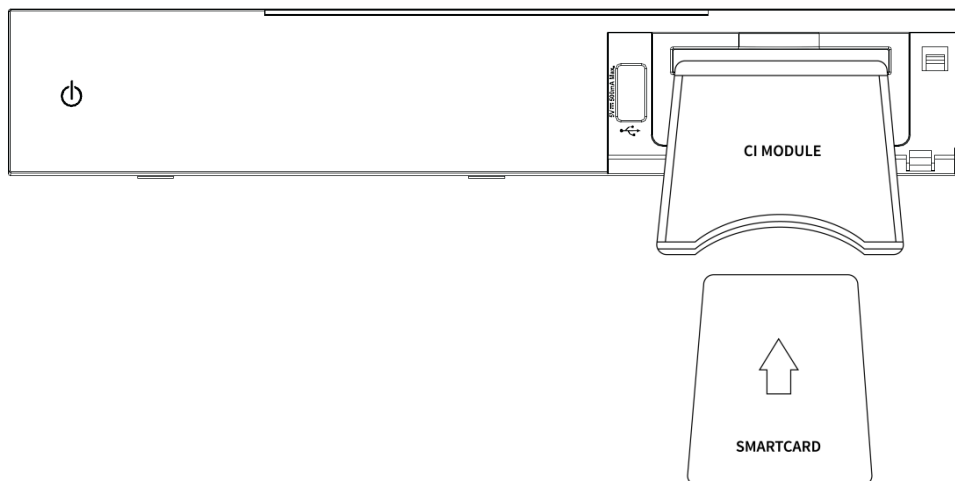## *Insertion of CAM (Conditional Access Module)*

ET7000 & ET7500 provide a CI slot.

①   Insert a Smartcard into the CAM as in the image below

②   Once the Smartcard inserted into the CAM, insert the CAM into the CI slot

[ET7000]

[ET7500]

(G) Remote Control -Type A (ET7000/ET7500)

0.   **Power:** puts your Xtrend box to standby mode
1.   **Mute:** tone off/on
2.   **Function:** function button
3.   **TV**: zap to TV Mode
4.   **Portal:** ET-Portal
5.   **Radio:** zap to Radio Mode
6.   **Number field**
7.   **One step backward/delete text**
8.   **One step forward/skip text**
9.   **Text:** displays videotext
10. **Subtitle:** displays subtitle
11. **Audio:** select Audio Track
12. **Color buttons:** Functional buttons that is defined respectively by the feature of menu.
     Red: activates HbbTV Web browser (HbbTV Plugin must be installed)
     Green: configurable
     Yellow: select Audio Track
     Blue: choose extensions
13. **Menu :** displays main menu
14. **Exit:** Exit
15. **Arrow buttons**

     Left: Channel ▼-

     Right: Channel ▲+

     Up: displays bouquet list/channel list

     Down: displays bouquet list/channel list

16. **OK :** confirm
17. **Info**: displays information of the current program
18. **EPG:** displays Electronic Program Guide
19. **VOL+/-:** Volume ▲+ ▼ −
20. **CH+/-:** Channel ▲+ ▼-
21. **Back:** back to previous channel
22. **LIST:** Film archive
23. **Help :** displays the function of remote control
24. ◄◄ **: Fast skip**
25. ►► **: Fast skip**
     Timer: program a Timer event
26. ►► : **Fast forward**)
27. ◄◄ **: Fast rewind**
28. **STOP: s**top playing media files/recordings
29. **REC:** record button
30. ►‖ **: Play & Pause :** Plays and pauses selected media files

Remote Control - Type B (ET7000/ET7500)

0. **Power:** switch the receiver to stand-by mode.

1. **STB:** switch the remote control to receiver mode.

2. **Number field**

3. < : Navigates left on the menu options or delete

4. << : Fast Rewind

5. ►II : Play and Pause

6. **MENU:** displays the main menu.

7. **Information:** Displays the service information box.

8. **VOL +/-:** Adjusts the audio volume.

9. **BACK:** back to previous channel

10. **Mute:** Mutes the audio.

11. 4 **Color Keys:**
    Red: activates HbbTV Web browser
    (Only on channels which provide HbbTV services).
    Green: configurable
    Yellow: select Audio Track
    Blue: selection extensions

12. **F1**: Assign a key function of your own

13. **Timeshift:** Used to start Timeshift function.

14. **Timer :** program a Timer event

15. **TEXT:** displays videotext

16. **TV :** Zap to TV mode

17. **F2:** Assign a key function of your own

18. **List:** Displays the list stored on HDD if any.

19. **PIP:** Activates Picture-in-Picture mode if this feature is available

20. **Audio:** Displays the audio track option to choose (e.g. AC3, Stereo)

21. **Radio:** Zap to radio mode

22. **TV:** Switch the remote control to Television mode
    (TV brand codes for this RCU can be found at www.et-view.net)

23. **>> :** Fast Forward

24. **Stop:** Stops playing and goes to the live mode.

25. **EXIT:** Exit

26. **Navigation Keys:**
    Left: Channel ▼-

    Right: Channel ▲+

    Up: displays bouquet list/channel list

    Down: displays bouquet list/channel list

27. **EPG:** Displays the Electronic Program Guide

28. **CH +/- :** Navigates through the channel list

29. **F3**: Assign a key function of your own

30. **HDMI Rx** (For ET10000 only): Switch to HDMI input mode

31. **V-Key:** Recalls Virtual Keyboard

32. **Subtitle:** displays subtitle

33. **Help:** displays the feature of the remote control

(H) Basic Installation

This chapter explains the installation of the Xtrend box. For information about installing devices such as the satellite dish, LNB, see the corresponding manuals of the manufacturer. When installing a new device, please refer to this basic installation chapter.

## 1.   Installation of Satellite dish or Cable/Terrestrial connection

One of the first steps is to connect satellite cable(s) to STB in order to gain optimal signal quality. You can either choose one of the following connection methods depending on the equipment you have.

A.   ET7500 Tuner A & B
If you have received the ET7500 with a built-in Plug & Play DVB-S2 tuner, you can connect 2x Satellite connections to Tuner B / RF IN and Tuner A / RF IN as the image below
B.   ET7000 integrated DVB-S/S2
The ET7000 has a built-in DVB-S/S2 tuner which allows you to connect a Satellite connection on Tuner A / RF IN.
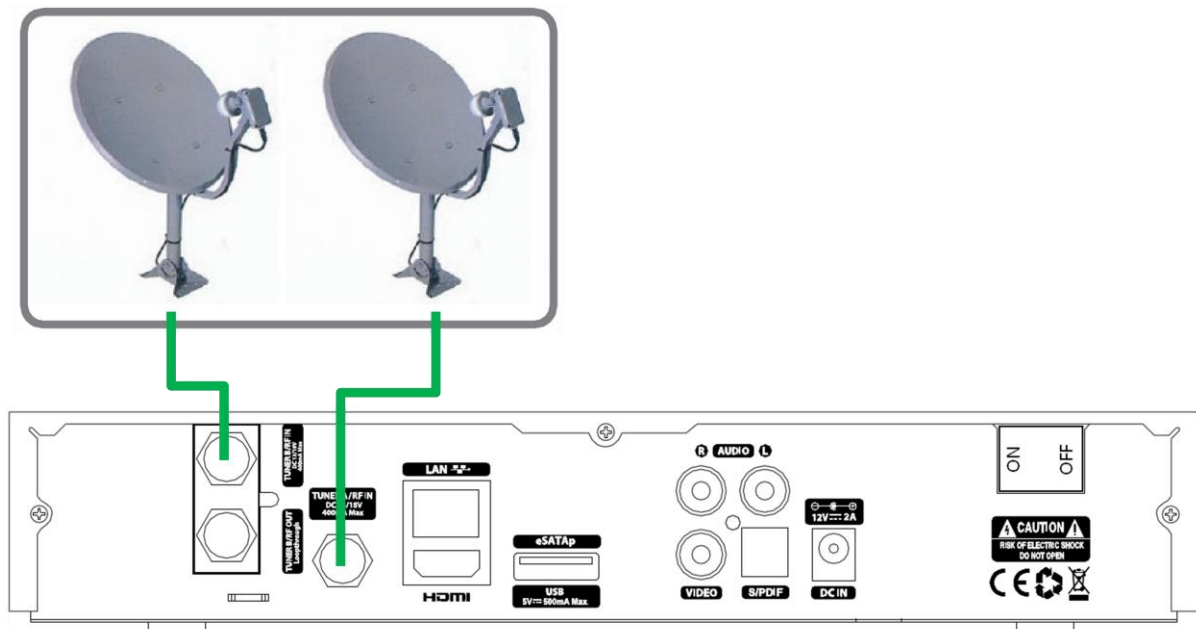
C. ET7500 Plug and Play DVB-S/S2 Tuner: Tuner B Loop-through/RF OUT
If you have only one Satellite connection, you can connect your Satellite cable on Tuner B / RF IN. You can now connect a loop-through cable to Tuner B / RF OUT and the other end to Tuner A / RF IN.

D. ET7500: Plug & Play DVB-C or DVB-T2 tuner
If you have a terrestrial or Cable connection, you can install a Plug & Play DVB-C or a hybrid DVB-T2 tuner on the tuner B slot.

2. Connecting the TV (and VCR)

STB provides a variety of audio/video connection methods.

A. Connecting TV via HDMI Cable

Connect your ET7500/ET7000's HDMI output with a HDMI Cable to your Television's HDMI input.
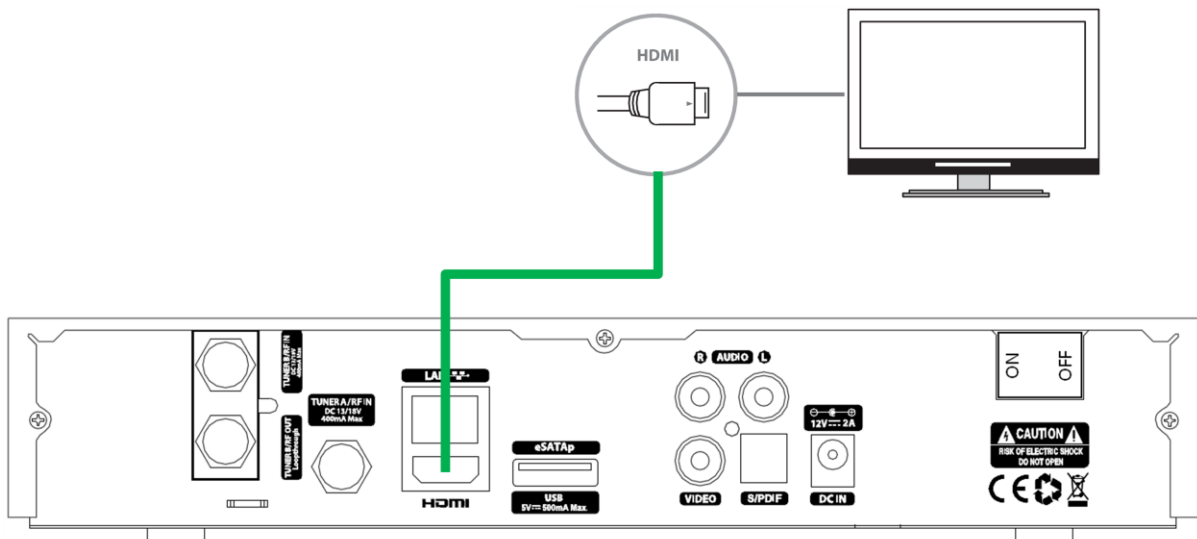
B.   Television with RCA

If you connect your Xtrend the box via audio / video (also called RCA) please follow the graphic shown below. The individual connections are color coded for both the TV and the Xtrend box. Note that if you use Component for connecting an additional audio output for the audio connection must be used.

C.   Dolby Digital amplifier

The Xtrend box has an optical output (AC3). You can choose the Dolby Digital amplifier using an optical cable. (Follow the graphic shown below)
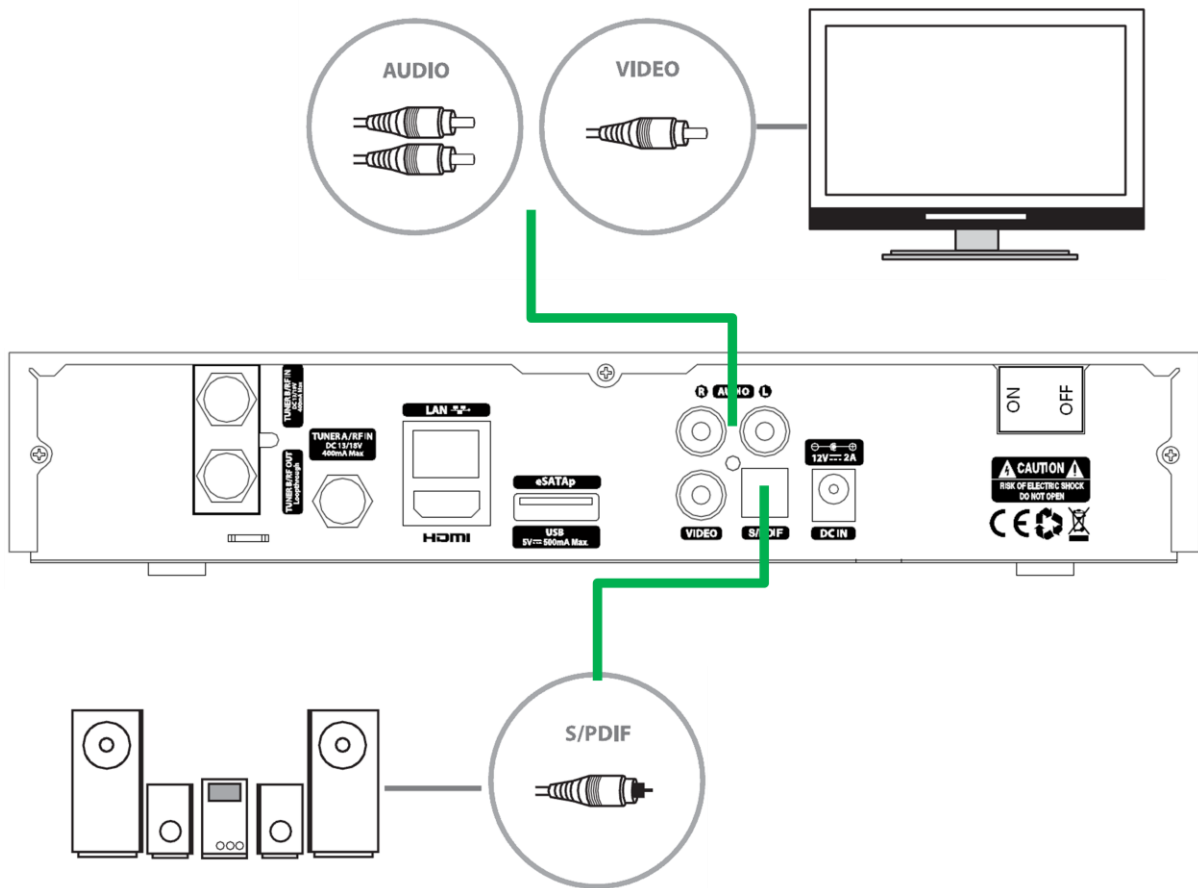
(I)   Replacing Tuner (For ET7500)

The Xtrend ET7500 offers as standard a built-in DVB-S/S2 tuner with an additional tuner slot. The Plug and Play DVB-S/S2, DVB-C and DVB-T/T2/C tuners are all pluggable. To protect your Electronic from unwanted static discharges, they should be carefully handled only by the edge of the board.

Instruction

A.   Disconnect the power connection from your ET7500
B.   Remove 5 screws of the top cover -> Remove the screws by turning them counterclockwise(Refer image in Figure 1 below)
C.   Remove the top cover by sliding backwards (Refer image in Figure 2 below)
D.   Remove screws of tuner bracket -> remove the screws by turning them counterclockwise (Refer image in Figure 3 below)
E.   Gently remove the tuner from the main board if there are any installed
F.   After your desired DVB-S/-S2, DVB-C, or hybrid DVB-T2 tuner has been replaced, tighten the tuner bracket with the a screw and put the top cover on again -> tighten the top cover with the screws by turning them clockwise
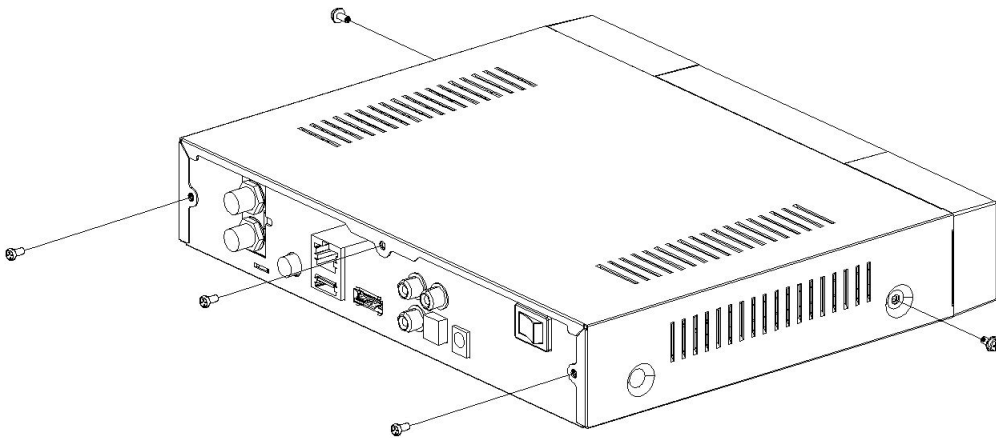
[Figure 1]
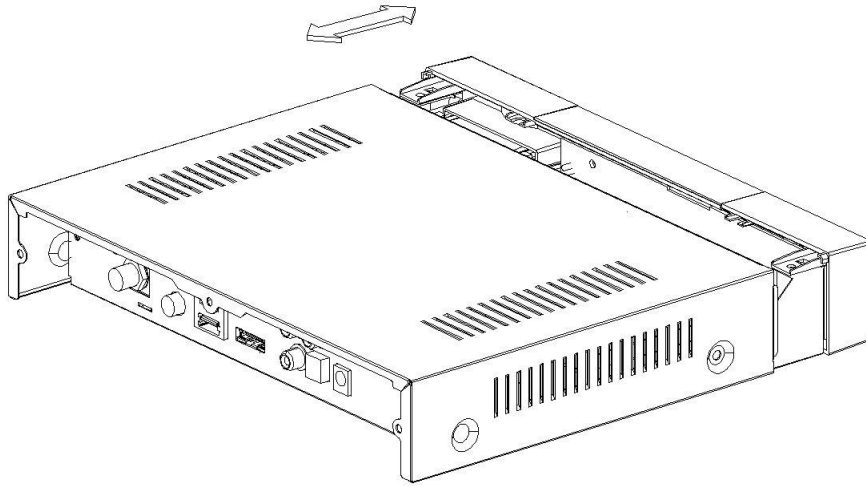
[Figure 2]
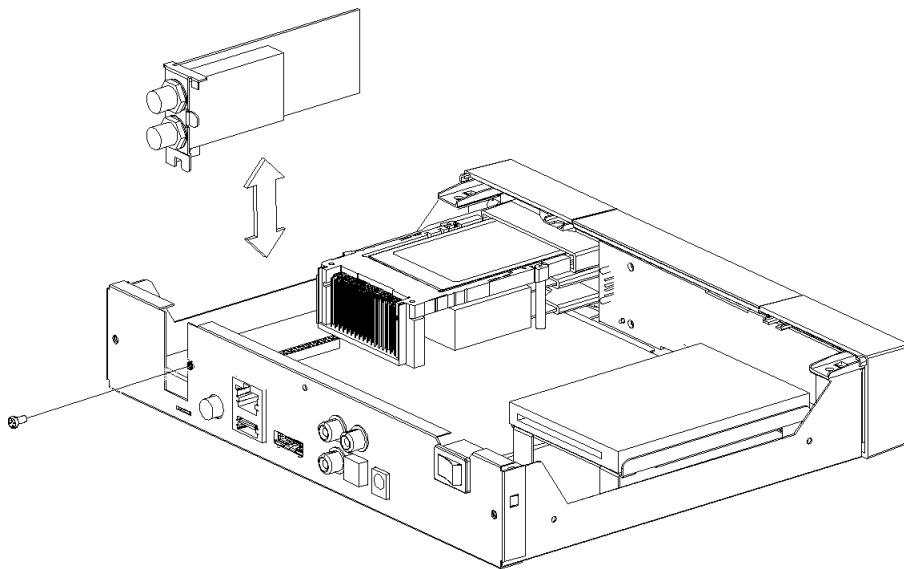
[Figure 3]

(J)   Turn on Xtrend ET7000/ET7500

Wizard Guide

The Wizard Guide will assist you to help configure the Xtrend ET7000/ET7500 in a simple way.

Step 1. Choose Video input selection

The first step of the wizard guide allows you to choose the desired Video input between HDMI, Scart, or YPbPr.
(Fig. 1) After you select your desired video input, configure the corresponding video mode. (Fig. 2) Use the
up/down arrow buttons and OK button on your remote control to control the wizard guide.

Fig. 1

Fig. 2

Step 2. Language Selection

Xtrend provides various languages and here you can choose the main language for your Xtrend box. Use UP/DOWN key to scroll up and down to find the language you want. Use the OK button to confirm your choice. (Fig.3)

Fig. 3

Step 3. Configuring Basic Setup

Now the wizard guide will ask you to configure your internet connection as well as tuner setup. There are 2 options:

●   Use wizard to setup basic features

●   Exit Wizard

You are strongly recommended to use wizard as it is designed to guide you through the configuration process (Fig. 4)

Fig. 4

Step 4 Check the internet connection

Please connect your Xtrend receivers with a LAN connection or a WiFi USB stick (optional). Then select "Check the Internet Connection". (Fig. 5) If the Internet connection is successfully initialized, you will see an IP Address with the following message: "Your internet connection is working (ip: xxx.xxx.x.xx)" (Fig. 6)

Fig. 5

Fig. 6

Step 5. Configuring Tuner A and Tuner B (ET7500 includes a Plug&Play Tuner B Slot)

A. DVB-S/S2 Configuration Mode

Using LEFT/RIGHT key, you can choose one of the following Configuration Modes:
- Not configured.
- Simple
- Loop-through to: mode to make the TUNER 1 be externally connected to the TUNER 2.
- Equal to: mode to use the same configuration as that of Tuner B.
- Advanced: for an advanced user configuration, where you can setup Unicable LNB, C-band, motor, and other settings.

We recommend using the "Simple" configuration mode with DiSEqC A / B or Single mode according to your satellite system. Port A and Port B are set to Automatic so that the DVB-S2 tuner can automatically find a lock on the corresponding satellite signal furnished. (Fig. 7)

Fig. 7

B. DVB-C Configuration Mode

Using LEFT/RIGHT key, you can choose one of the following Configuration Modes:
- Enabled
- Nothing connected

Please select „Enabled" as configuration mode, then you can choose the following types for **"**Used serivce scan type**"**
- Frequency steps
- Frequency bands
- Provider

We recommend "Provider" as "Used service scan type". Select the appropriate cable provider according to your cable system and press the OK button on your remote control. (Fig. 8)

Fig. 8

C.   DVB-T2 Configuration Mode

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

● Enabled
● Nothing connected

Once you have set "Enabled" as a configuration, select the appropriate region for your DVB-T2
System and press the OK button (Fig. 9)

Fig. 9

Step 6. Automatic Scan & Manual Scan

After you have configured the tuner(s), you can perform an automatic search or manual search on the desired tuner. (Fig. 10)

Fig. 10

Select on which tuner you want to do an automatic or manual search. (Fig. 11)

Fig.11

Manual Scan

If you know well enough to configure each exact setting required for manual search of services, you can select manual scan as well. There are many parameter values that you need to configure as below. (Fig. 12)

Fig. 12

Amongst other things, the below parameters are what you need to decide prior to performing 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).

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 STB 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"*. 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.

After an automatic or manual search, your Xtrend box is now ready for use. Press "OK" to continue. (Fig. 13)

Fig. 13

(K)   System Configuration – Network Setup

[Menu -> Setup -> System -> Network]

The ET7000/ET7500 is equipped with a standard 10/100Mbps Ethernet RJ 45 connector. It is recommended to use this connection to enjoy your Xtrend box with all properties. The network settings can be adjusted with the menu displayed in the image below. (Fig. 14)

Fig. 14

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.

If your Ethernet port is not active for any reason, please select "network restart"

This option is used when you want to restart the Ethernet interface of your Xtrend box.

(L)   Mounting HDD (For ET7500)

Xtrend ET7500's HDD bracket is designed to mount 2.5" HDD

1.   You can mount a 2.5" HDD using the already installed bracket in the image below.

2.   After inserting a 2.5" HDD on to the bracket, tighten 4 screws on the bottom side of the HDD bracket where 4 arrows are marked in the image below.
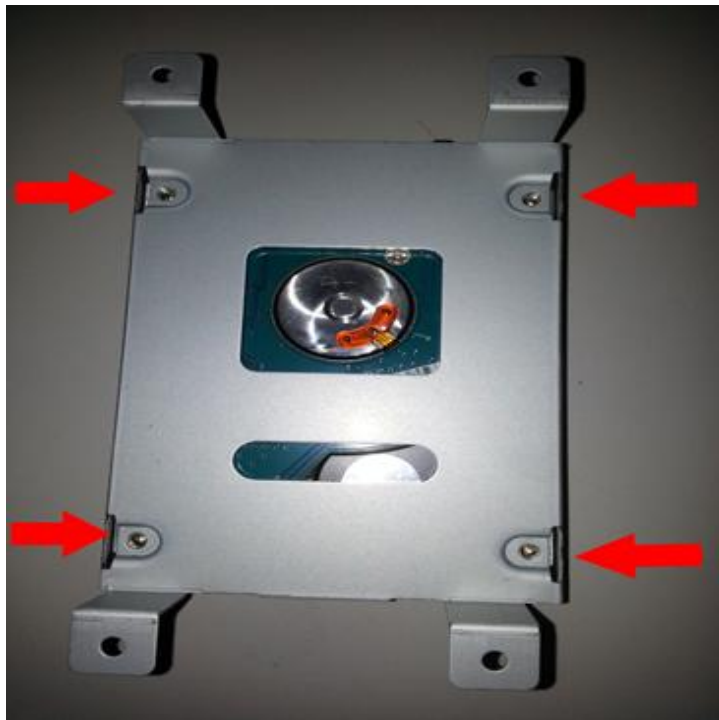
3. Insert the HDD bracket into the case of ET7500 as in the image below. Then tighten the 4 screws of the HDD bracket where 4 arrows are marked in the image below.

4. Connect the HDD Cable with your 2.5" HDD on to your main board using the 3 connections port where 3 arrows are marked in the image below:

(M) Download and Install Plugins

[Menu -> Plugins -> Download Plugins]

In order to download and install more Plugins, please go to the Plugin Browser and press the green button on your remote control. You will be able to see a list of available plugins and you can choose which plugins you want to download and install. After the installation of a plugin, we strongly recommend to restart the graphical user interface.

(N) Copyright - GNU GPL

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