

OPTIBOX[®]

panthera

MPEG4(H.264) HDTV Digital Satellite Receiver

User's Manual

Optibox PANTHERA



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Please read the entire manual thoroughly and retain it for future reference.

Important safety instructions

Safety Warnings

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION : To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts inside. Refer any servicing to qualified Service personnel.		



This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Read this manual carefully before using the product. The cautions described below contain important information about safety, and are categorized into: Danger, Warning and Notice.

The company will not take any responsibility for accidents or damage resulting from careless handling by the user.



Danger

If the user mishandles the product, there is a risk of loss of life or critical injury.

- Connect the power cord only to A/C outlets as specified by the user manual or product specification. If the power code is connected to a non-specified A/C outlet, it could result in fire or electric shock.
- The product must not be exposed to water or liquid of any sort, or be exposed to drips or splashes. It could result in fire or electric shock.
- Do not place heavy objects, including the product itself, on top of the power cord. If it is damaged, it could result in fire or electric shock.
- Do not place metal objects on top of the apparatus. If metal objects fall into the apparatus, it could result in fire or electric shock.
- Do not repair, disassemble or modify this apparatus yourself. It might cause fire or electric shock. If internal checking or maintenance is needed, please contact your service center or agency.
- Do not block or cover any ventilation opening. A fire might result from overheating.
- Turn off and unplug the power as quickly as possible during electric storms. Failure to do so could result in fire or electric shock.
- Remove the antenna's power plug from the outlet as quickly as possible during electric storms. Failure to do so could result in fire or electric shock.
- Do not drop the apparatus (for example by putting it in a place where it may fall) or subject it to impact. The product might be damaged. If it is damaged, please turn off the power and remove the plug from the power outlet, or fire or electric shock may result.
- Never touch the power cord with wet hands. It could result in an electric shock.



Warning

If the product is mishandled, the user might receive a serious or minor injury. Damage or loss to the user's property might also result.

- The product must not be exposed to water or liquid. If the apparatus is exposed to drips or splashes, it might cause a problem that cannot be repaired.
- Do not repair, disassemble or modify this apparatus yourself. It might be seriously damaged, possibly beyond repair.
- Turn off the power and unplug the power cord as quickly as possible during electric storms. They might damage the apparatus.
- Remove the antenna's power plug from the outlet as quickly as possible during electric storms, or the apparatus might be damaged.
- Data recorded in the HDD might be lost due to a shock, lightening or electricity failure. The user must back up his or her own data, and the company does not take any responsibility for failure to do so.



Notice

If the product is mishandled, it might cause minor damage.

- If the apparatus becomes marked, clean it gently with a soft cloth or towel. Never use chemical solvents such as benzene, thinner, acetone or other solvents. The surface of the apparatus might become discolored and the paint might peel.
- Do not place or keep the apparatus in the following situations. Doing so might cause problems.
 - Where it is too hot or cold.
 - Where there is high humidity.
 - Where there are excessive temperatures, for example in front of airconditioners or heating vents.
 - Where there is dust or soot.
 - In confined areas where the heat cannot be released.
 - Where it is exposed to direct sunlight.
- Turn the apparatus off or unplug the power cord if it is to remain unused for a long period of time.
- Do not place heavy objects on top of this apparatus. It might cause malfunction or damage.
- If the apparatus is so seriously damaged that it cannot be repaired, or has stopped working altogether, dispose of it properly in accordance with the local laws or regulations in your area.

Disposal

Batteries and packaging material do not belong in domestic waste. The batteries must be delivered to a collection center for old batteries. The separate disposal of packaging materials protects the environment.

Disposal old electrical & electronic equipment

(Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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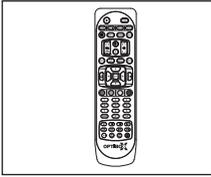
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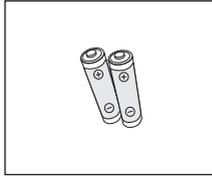
1. Getting Start

1.1 Package Contents

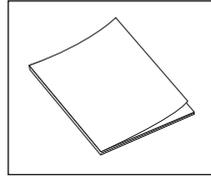
Make sure that the following accessories are supplied with your receiver.



Remote Control Unit



AAA Batteries (2 EA)



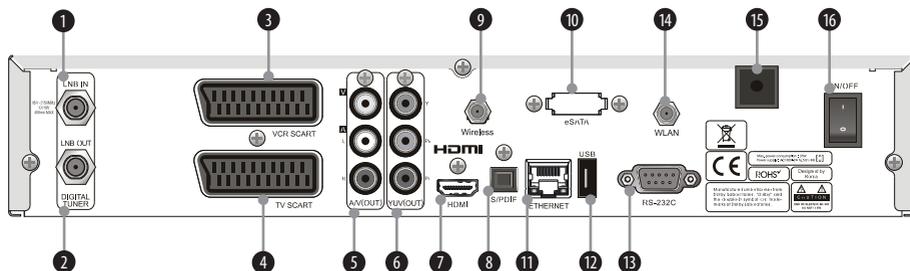
User's manual

1.2 Front Panel



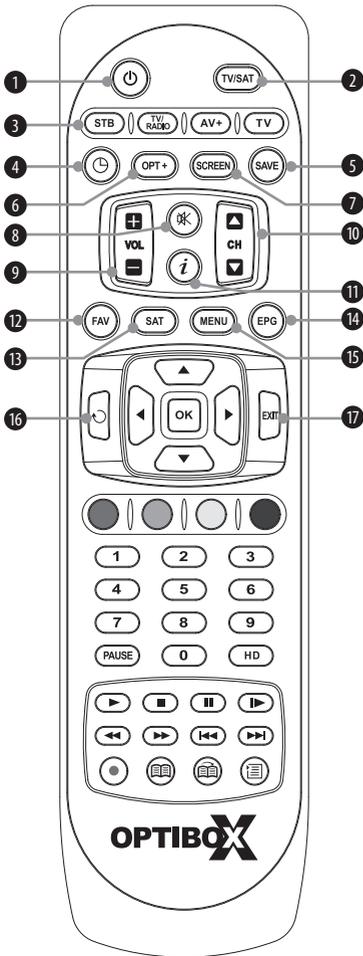
①	▲	Normal Mode	Change to the next channel.
		Menu Mode	Move to the upper item.
	▼	Normal Mode	Change to the previous channel.
		Menu Mode	Move to the lower item.
	▶	Normal Mode	Volume up.
		Change item	Change item.
◀	Normal Mode	Volume down.	
	Change item	Change item.	
②	Menu	Normal Mode	Display the Main Menu.
		Menu Mode	Go to the sub menu.
③	Display window		Displays the current state such as channel, time, and message.
④	POWER		Turn on & off the power.
⑤	Exit		Return from menu.
⑥	Smartcard Slot		Insert a Smartcard.

1.3 Rear Panel



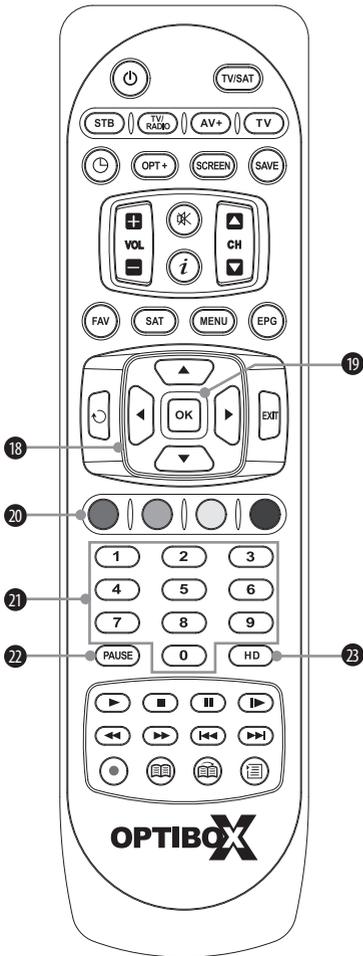
1	LNB IN	Connect satellite antenna.
2	LNB OUT	Connect to the other satellite receivers.
3	VCR SCART	Connect VCR.
4	TV SCART	Connect TV.
5	A/V(OUT)	Connect TV (Left/Right)
6	YUV(OUT)	Connect TV through Y/Pb/Pr.
7	HDMI	Connect TV through HDMI.
8	S/PDIF	Connect TV Digital Amplifier (Optical).
9	Wireless	Internal Wireless Module(Optional).
10	eSATA	Support SATA hard disk for PVR.
11	ETHERNET	Connect TV LAN cable.
12	USB	Connect USB memory.
13	RS-232C	Connect PC for software upgrade.
14	WLAN	Wireless LAN(Optional).
15	POWER Supply	100-240V~, 50/60Hz, MAX 35W.
16	POWER SWITCH	Switch Power ON/OFF.

1.4 Remote Control Unit



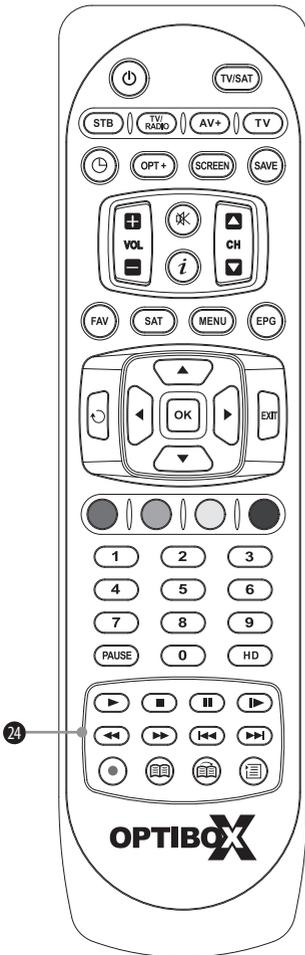
1	Power	Power On/Off.	
2	TV/SAT	Switch TV or SAT mode.	
3	STB	Select STB.	
	TV/RADIO	Switch TV/Radio mode.	
	AV+	Digital Audio, Teletext, Subtitle menu.	
	TV	Select TV.	
4		Sleep timer.	
5	SAVE	Save current volume & channel.	
6	OPT+	Show additional function menu.	
7	SCREEN	Set screen format.	
8		Mute the sound.	
9	VOL	Adjust the volume.	
10	CH	Normal mode	Change channel.
		Menu mode	Move menu item.
11	i	Show the current channel information.	
12	FAV	Show Favorite Channel List.	
13	SAT	Selects satellite.	
14	EPG	Show the Electronic Program Guide.	
15	MENU	Normal mode	Show the main menu.
		Menu mode	Return to the previous menu.
16		Go back to previous channel.	
17	EXIT	Return to the previous menu.	

1.4 Remote Control Unit



18	VOL ◀▶	Normal mode	Adjust the volume.
		Menu mode	Change the left/right item
	CH ▲▼	Normal mode	Change channel.
		Menu mode	Move menu item.
19	OK	Normal mode	Show the channel list.
		Menu mode	Execute the select item.
20	Color Key	Normal mode	Additional Menu Red - Fine tune menu. Yellow - Configure Disseq1.2 / Positioner. Green - Additional Menu.
		Menu mode	Selected function according to the Menu.
21	Numeric buttons	Normal mode	Select channel.
		Menu mode	Directnumeric key entry.
22	PAUSE	Pause screen.	
23	HD	Sort HD channel only.	

1.4 Remote Control Unit



	<p>PLAY</p> <ul style="list-style-type: none"> • Change to normal speed in trick mode. • Show play navigation bar in normal speed.
	<p>STOP</p> <ul style="list-style-type: none"> • Stop file playback and watch live channel in time-shift or playback. • Stop recording.
	<p>PAUSE</p> <ul style="list-style-type: none"> • Pause or resume play.
	<p>SFWD(Slow forward play)</p> <ul style="list-style-type: none"> • Change to slow speed forward play. • Speed: $\frac{1}{2}x$, $\frac{1}{4}x$, $\frac{1}{8}x$.
	<p>FREV(Fast reverse play)</p> <ul style="list-style-type: none"> • Change to fast speed reverse play. • Speed: $-x2$, $-x4$, $-x8$, $-x16$, $-x32$, $-x64$.
	<p>FFWD(Fast forward play)</p> <ul style="list-style-type: none"> • Change to fast speed forward play. • Speed: $x2$, $x4$, $x8$, $x16$, $x32$, $x64$.
	<ul style="list-style-type: none"> • Go to start position.
	<ul style="list-style-type: none"> • Go to end position.
	<p>RECORD</p> <ul style="list-style-type: none"> • Record current channel.
	<p>BOOKMARK</p> <ul style="list-style-type: none"> • Set Bookmark in time-shift or playback.
	<p>BOOKMARK JUMP</p> <ul style="list-style-type: none"> • Jump to bookmark.
	<p>BROWSER</p> <ul style="list-style-type: none"> • Show File List.

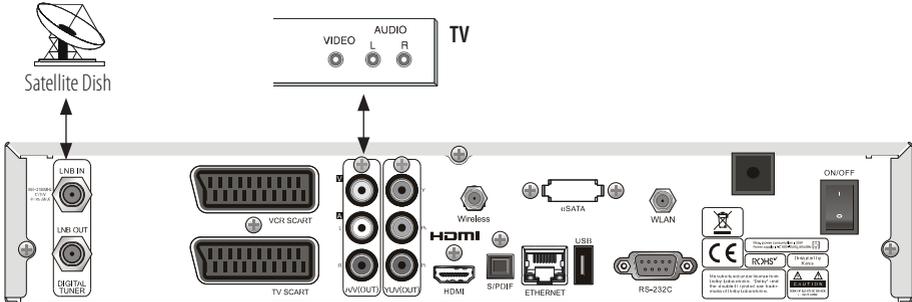
1.5 Connecting Your Equipment

Connect related equipments to STB as below.

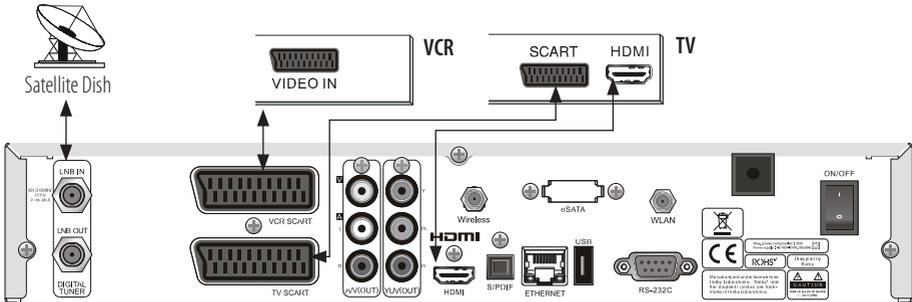
Note

When you connect STB to TV by using SCART, please fit the CLAMP FILTER near SCART jack.

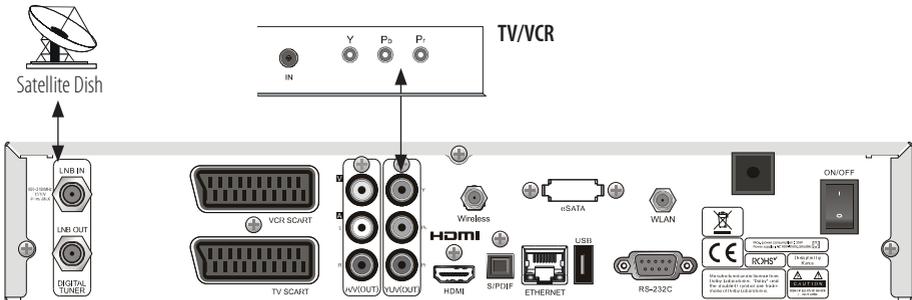
1.5.1 Connect TV with RCA cable



1.5.2 Connect TV/VCR with SCART / HDMI cable

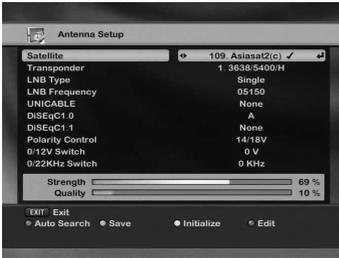


1.5.3 Connect TV/VCR with YUV cable install



2. Installation

2.1 Antenna Setup



- **Satellite :** Select any satellite by pressing ◀▶ keys.
(Press blue key to edit the name of the satellite)
- **Transponder :** Select a transponder.
- **LNB Type :** Dual / Universal, Single, OCS, Wideband, Digiturk MDU1, Digiturk MDU2.
- **LNB Frequency :** Select a proper LNB frequency.
(Press blue key to input local frequency)
- **DiSeq 1.0 & 1.1 :** Select between "None" or "DiSeq1.0 A, B, C, D" and "DiSeq1.1 1 ~ 16".
- **Polarity Control :** Select one out of "14/18V", "0/12V", "0/22KHz".
- **0/12V Switch :** Select between "0V", and "12V".
- **0/22KHz Switch :** Select between "0KHz", "22KHz", "Auto".

Note

Make sure to save searched channels before exit.

Press **YELLOW** button to initialize satellite value.

After Antenna setup, you can move to Auto search menu with **RED** button.

2.2 Motor Setup



You can Select "None", "DiSeqC1.2", or "USALS" by pressing ◀▶ keys.

- **Motor Type :** Select a motor type by pressing ◀▶ keys.
(Press blue key to edit the name of the satellite)
- **Satellite :** Select a Satellite.
- **Transponder :** Select a transponder.

2.2.1 Setting up DiSeqC1.2

In the Motor Setup Menu, select the DiSeqC1.2 then the following menu will be displayed.

- **Satellite :** Select a satellite by pressing ◀▶ keys.
(Press blue key to edit the name of the satellite.)
- **Transponder :** Displaying current TP value.
- **Nudge Size :** Motor move step (1-5).
- **Move Coarse :** Move west (◀ key), Move east (▶ key).
- **Move Fine :** Move by the value of Nudge size.
- **Motor Control :** GOTO, SAVE, GOTOREF.
- **Limit Setup :** Setting limit.
 - EAST LIMIT : Confirming the setting of East Limit.
 - WEST LIMIT : Confirming the setting of West Limit.
 - DELETE LIMIT : Delete the setting of East & West Limits.

Note

Setting DiSeqC 1.2

1. Select DiSeqC 1.2 in the Motor setup menu.
2. Select satellite.
3. Move motor until you see good signal.
4. After searching satellite, SAVE current position.
5. Repeat this operation for other satellites.
6. Go to Auto search menu with RED key.

Setting USALS

1. Select USALS in the Motor setup menu
2. Enter longitude and latitude value
3. Save current setting in move control
4. Move motor to current satellite position and check signal.
5. Go to Auto search menu with RED key

2.2 Motor Setup

2.2.2 Setting up USALS

Select the USALS in the Motor Setup menu, and press OK key to display following menu.

- **Satellite** : Select a satellite by pressing ◀▶ keys.
- **Transponder** : Displaying current TP value.
- **Satellite Position** : You can edit the position of satellite.
- **Longitude** : Setting the longitude position.
- **Latitude** : Setting the latitude position.
- **Move Coarse** : Move DiSeqC1.2 motor manually. Move west (▶), Move east (◀).
- **Move Fine** : Moves depending on the value of Nudge size.
- **Motor Control I** : GOTO, SAVE, GOTOREF.
- **Limit Setup** : Setting limit.
 - EAST LIMIT : Confirming the setting of East Limit.
 - WEST LIMIT : Confirming the setting of West Limit.
 - DELETE LIMIT : Delete the setting of East & West Limits.

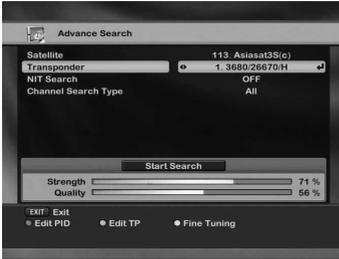
2.3 Auto Search



All channels will be searched if the selected satellite is properly assigned in the Antenna Setup menu.

- **Search Type**
 - Multi Satellite : Search multiple satellites as you select in pop-up window.
 - One Satellite : Search only the current satellite.
 - Multi Transponder : Search multiple TS in transponder pop-up window.
 - One Transponder : Search current transponder.
- **Satellite** : Select one of Satellite.
(Select satellite in the auto search menu and press RED key to Multi Satellite Register)
- **Transponder** : Select one of transponders in TP list.
- **NIT Search** : Activate network search mode.
- **Channel search Type** : Select one of search Type between "ALL", "FTA", "Scramble", "All TV", "FTA TV", "RADIO", "Scramble TV", "All RADIO", "FTA RADIO", "Scramble RADIO".

2.4 Advanced Search



When a new satellite is launched or you want to search channels from a satellite which is not programmed, you can edit all of the transponders of the satellite by this function and then channels can be searched by "Advance Search".

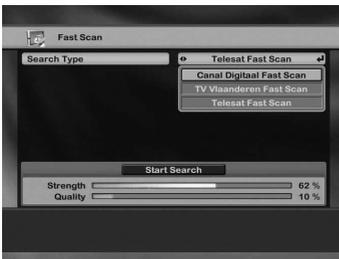
- **Edit TP :** When you press GREEN key, EDIT TP menu It will be displayed, The settings of "Frequency", "Symbol Rate", "Polarization", and the other of selected transponder will be displayed in each field.
- **Edit PID :** When you press RED key, Select any out of $iDEC_i$, $iHEX_i$.
- **Find Tuning :** When you press YELLOW key, You can control $iAGC$ Value, $iBandwidth_i$.

2.5 Blind Search



When a new satellite is selected or you want to search all Transponder from a satellite which is known or unknown transponder.

2.6 Fast Scan



You want to search channels from Canal Didiitaal Fast Scan, TV Viaanderen Fast Scan and Telesat Fast Scan.

3. Channel / Event

3.1 Channel Control

Channel Control consists of TV channel control and Radio channel control.

All kinds of channel editing functions can be performed in this menu like Channel view, Edit Name, Set/Clear favorite, Lock/Unlock, Edit PID, Move and Delete.

Note

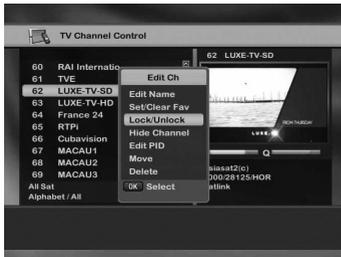
By default, there is no channel list for both TV and Radio.
Be sure to perform search channels before use.



3.1.1 Channel Mode

In order to control various channel lists, Channel Mode function keys assist users to organize many channels within their scope of action.

There are various keys to help you to perform channel control functions in help line.



3.1.2 Edit Mode

Press OK key then select channel Edit mode.

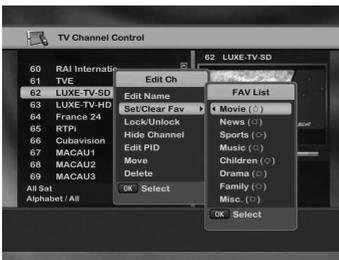
3.1 Channel Control



3.1.3 Edit Name

Edit the name of the selected Channel.

Select one channel and press OK key and then you can edit name.



3.1.4 Favorite Channels

Select Set/Clear FAV in the channel control popup menu, then another popup menu will appear on the right side of the screen (e.g. News, movie, drama).

Select one of them and press OK to add to your favorite list. Then favorite icon will appear beside the channel name. To deselect, go to the selected channel and press OK.



3.1.5 Lock/Unlock Channels

Select Lock/Unlock in the channel control menu. Press OK on the channel that you want to change. Then lock icon will appear beside the channel name. It will confirm that the channel is locked.

To unlock the channel, use ▼▲ key on the remote, and press OK on the channel.



3.1.6 Hide Channel

Select Hide Channel in the edit channel popup menu.

Press OK on the channel that you want to set and clear hide channel.

To Show/disappear the Hide channel, you have to enter private password by pressing REC key.

3.1 Channel Control



3.1.7 Edit PID

Edit Video PID, Audio PID, PCR PID with Hex or decimal code.

If you want to change PID number, press RED key to Enter value by yourself.



3.1.8 Move

Change the position of the selected channel in the channel list.

Select MOVE in the edit channel popup menu, Press OK on the channel that you want to move, use press UP/DOWN key to locate channel position and RED (move channel) key and then Press EXIT key to save.



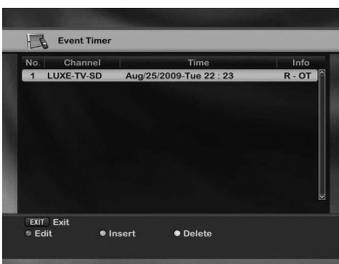
3.1.9 Delete

Delete the selected channel or TP.

Select delete in the edit channel popup menu, press OK on the channel that you want to delete, and RED(delete channel) key or Yellow (delete all)

3.2 Event Timer

Set the STB work in reservation mode to Wake up and Sleep using Timer.



Add the event in the list by the Green key, and edit the selected event in the list by the Red key.

To delete the event, press the Yellow key.

Ch View : Set the watching channel for turn ON/OFF time, cycle, etc.

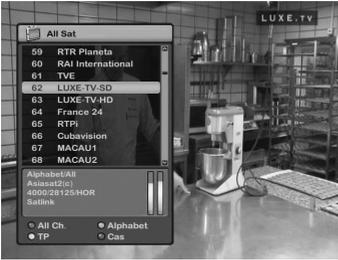
Wakeup : STB will be automatically powered on by setting of Wakeup time.

Sleep : STB will be automatically powered off by setting of Sleep time.

Record : Record the reserved channel.

4. Menu Guide

4.1 Channel List



Press OK key while watching video, then Channel List menu will be shown depends on channel mode (Sort mode). If the channel mode (Sort mode) is favorite mode, then Favorite channel list will be displayed. You can search the channel by sort function.

4.1.1 Satellite sort

If you want to change satellite select mode, press SAT key, and then Small pop-up window will be displayed, select one among them by pressing OK, and then select channel by pressing OK. Then the satellite select will be changed.

4.1.2 Alphabet Sort

If you want to change alphabetical mode, press Green key, and then Small pop-up window will be displayed, select among them by pressing LEFT/RIGHT/UP/DOWN, and then select alphabet by pressing OK. Then the alphabetical mode channel list will be changed.

4.1.3 HD Sort

If you want to change into HD sort mode, press HD key.

4.1.4 Favorite Sort

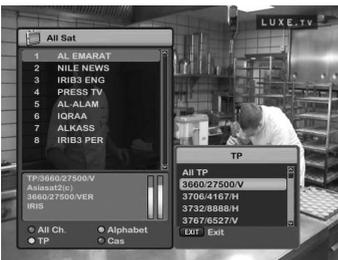
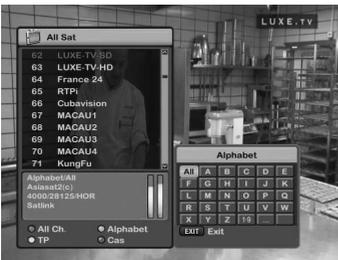
If you want to change Favorite Sorting mode, press FAV key, and then Small pop-up window will be displayed, select among them by pressing UP/DOWN, and then select Fav. list by pressing OK. Then the Favorite channel list will be changed.

4.1.5 TP Sort

If you want to change TP (Transponder) Sorting mode, press Yellow key, and then Small pop-up window will be displayed, select among them by pressing UP/DOWN, and then select TP list by pressing OK. Then the TP channel list will be changed.

4.1.6 CAS sort

If you want to change into CAS Sorting mode, press Blue key, and then Small pop-up window will be displayed, select one among them by pressing UP/DOWN, and then select another CAS list by pressing OK. Then the CAS channel list will be changed.



4.2 Channel Guide



4.2.1 Channel Guide

Press EPG key while watching channel, then TV GUIDE menu will be shown.

The EPG menu consists of Channel number, Event name and the flag of extended event description.

Brief TV guide information of current channel will be displayed on the bottom of the screen.

By pressing RED key, select FULL TV Guide.



By pressing GREEN Key, 7-Days Guide will be displayed. And it is possible to move Now to guide and Next guide by pressing LEFT/RIGHT key.

Information consists of Event Name, Event Description and Extended Event Description



By pressing YELLOW button, you can easily set reservation schedule.

4.3 Normal Mode



For more detailed channel information, some channels are supporting Teletext/ Subtitle service.

There are two types of EBU Teletext service as follows:

This satellite receiver supports the both types.

- **VBI** : Supported by TV and controlled by Teletext key on TV remote controller.
- **STB** : Supported by satellite receiver and controlled by receiver's remote controller.

4.3 Normal Mode

Press AV+ key in the normal mode.

Choosing a Teletext service, then it will display to Teletext from current channel



< Teletext Mode >



< Subtitle >



4.3.1 Audio Control

Press AV+ key, then you can see Audio pop-up window and you can select audio language and audio mode (Left, Right, Stereo).



4.3.2 Fine Tuning

When the signal is very poor, you can change the user value in fine tuning menu, for better reception.

Press RED key in the normal mode, then select Fine Tuning.



4.3.3 Auto Channel Change

Press UP/DOWN key for 2 ~ 3 seconds, then you can see auto Channel message on the channel information and you can change the time of auto channel change.

4.4 System Setup

4.4.1 OSD Setup

In Normal Mode, Press MENU key, then select System Setup Menu and select OSD menu.



4.4.1.1 Language

You can set language which will be used for displaying menu. You can select English, French, Russian, Arabic, Persian, Turkish, Italian, and German.

4.4.1.2 Audio Language

You can set the default audio language.

4.4.1.3 Subtitle Language

You can set the default subtitle language.

4.4.1.4 Banner Time

You can set the displaying duration of Banner menu.

- **Time Range** : From 1 to 30 seconds.

4.4.1.5 Transparency

You can set the transparency of menu screen. 9 levels of the transparency are supported.

Ranges from 0% to 80%.

4.4.1.6 Main Image

You can set the type of main still image for background.

4.4.1.7 Signal Visualize

You can set the display type of signal level in banner information.

4.4.2 Video

Press MENU key in Normal Mode, then select System Setup, and select Video submenu.



4.4.2.1 Screen Ratio

You can select the aspect ratio of TV screen according to your TV type. 4:3 and 16:9 modes are supported.

4.4.2.2 Screen Format

If the Screen Ratio is 4:3, there will be choices as Letter Box, Center, combined, and Full.

If the screen Ratio is 16:9, you will have choice as letter Box and Center and Full.

4.4 System Setup

4.4.2.3 Display Format

You can select Display Format according to your TV type.
“PAL”, “NTSC”, “SECAM”, and “PAL & NTSC” modes are supported.

4.4.2.4 Display Size

1080i, 720p, 576p, 480p.

4.4.2.5 Deinterlacer

You can turn on/off the Deinterlacer.
If you set the deinterlacer value to ON, HDMI/YUV picture quality of SD channels will be improve.
but, channel change speed will be slower.

4.4.2.6 YUV Output

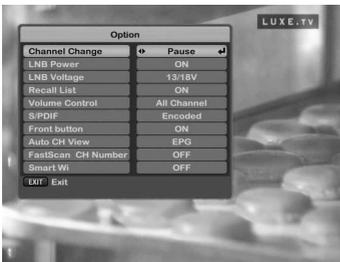
You can turn on/off TV Component output.
If you want to set the video mode for TV SCART(RGB), then turn off the YUV Output and change SCART Output to RGB.

4.4.2.7 SCART Output

You can set the video mode for the TV SCART output, by pressing OK key, then press ▲▼ key on the remote control unit.
2 Video Output as RG/ CVBS are supported.

4.4.3 Option

Press MENU key in Normal Mode, then select System Setup menu, and select Option.



4.4.3.1 Channel Change

You can select the way of changing the channel by pressing OK key, then press ▲▼ key on the RCU.

Supported mode : Blank, Fade

4.4.3.2 LNB Power

You can set the LNB Power ON/OFF by pressing OK key, then press ▲▼ key on the RCU.

4.4.3.3 LNB Voltage

You can set LNB voltage by pressing OK key, then press ▲▼ key on the remote control unit.

Supported voltage : 13/18V, 14/19V.

4.4.3.4 Recall List

If you set it “ON”, you will be able to see the “Recall List” when you press RCL button.

If you set it “OFF”, you can go back to the previous channel only.

Note

Recall list is the menu in which you can see the channels you watched past.

4.4 System Setup

4.4.3.5 Volume Control

You can set the Volume Control by pressing OK key, then press ▲ ▼ key on the RCU.

Supported mode : All Channel – the volume value of all channel same value channel – every channel can have different volume value.

4.4.3.6 S/PDIF

You can set the S/PDIF output mode, Encoded and PCM.

4.4.3.7 Front Button

You can set ON/OFF

- **ON :** Front Key is working
- **OFF :** Front Key is not working

4.4.3.8 Auto CH View

You can set the channel change mode in Channel List and EPG Menu.

If you set the EPG or CH List, you can change channel by moving item in each menu.

4.4.3.9 FastScan CH Number

You can set the logical channel number mode. It is supported by the Program Provider.



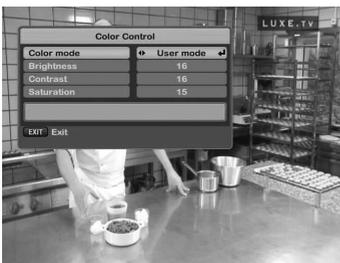
4.4.4 Time

Mode, then select System Setup menu, and select Time menu.

• Time Offset

Press ◀ key to set the Current Time.

For your reference, when you scroll time zone, the name of city will be displayed.



4.4.5 Color Control

If you want fine tuning for color value, press MENU key in Normal Mode, then select System Setup menu, and select Color Control menu.

4.4.5.1 Color Mode

You can set the Color Mode.

Supported mode : User, Movie, News, Sports.

4.4 System Setup



4.4.6 Parental Control

You can prevent children from watching channels, which are unsuitable for them. Only the person who knows the password can watch the prohibited channels. In the parental control menu, you can select four password options.

4.4.6.1 Lock Grade

Change the password options by ◀▶, None, Menu, channel, Menu & Channel. Password is made up of 4 digit numbers; it is never shown on the screen. Only asterisks appears as you input password, when you select the locked channel in "Favorite TV/Radio" or "TV/Radio channel Control", you will find the following message "Key in Password" on screen. Then please insert your password.

4.5 Additional Function



4.5.1 Channel Information

• Basic Box

This is the information box containing "Program Number", "Program Name", "Signal Quality bar", "Current Time", and "Provider name" only.

• Extended Box

This has additional information like and Satellite, channel Frequency and CAS Type as well as basic Channel Information.

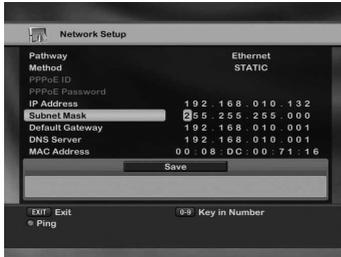
4.6 Module

4.6.1 CI Slots

The CI (Common Interface) is an interface for a standard PCMCIA module in receiver. If you want to watch a scrambled channel, you need CAM (Conditional Access Module) and Smart Card to the channel.

CI menu is provided by CAM and its Smart Card.

This menu will be activated if you insert the CAM In the slot CI menu varies according to the kind of CAM and its Smart Card.



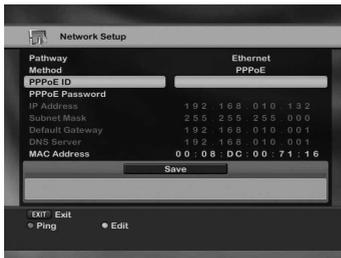
4.6.2 Network Setup

- **Static**

Static IP address can be used by entering the reserved IP address.

- **DHCP**

If DHCP (Dynamic Host Configuration Protocol) is selected, IP address and all the basic TCP/IP protocols set automatically.



- **PPPoE**

It is one of the Ethernet communication protocol and it also can be controlled by ID and PW.

- **Ping**

Verify the status of network connection to the server.

4.6.3 Software Upgrade

For Software upgrade, enter the server IP address which is defined by the Service Operator.

4.6.4 Embedded

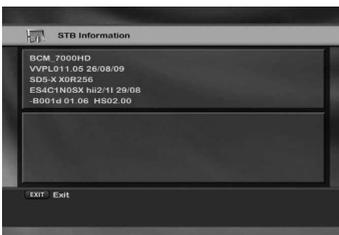
This menu is for Free To Air + Embedded, and This menu allows you to view the information of the smart card such as available entitlements, Maturity Rating and PIN code.

4.7 STB Status



4.7.1 Factory Value

This function will reset all the parameters as factory default value. When this menu is selected, the message will be displayed on the screen. You can change each field into default data in Factory Value.



4.7.2 STB Information

STB Information shows STB software version, data, etc for your reference. At the top of the page you will see the software version of the STB.

5. eSATA PVR Guide

5.1 PVR Setup



You can change the PVR configuration in PVR Setup menu. To enter this menu, press MENU key in normal mode, and go to Channel / PVR menu, then select PVR Setup.

- **Time Shift** : Configuration for recording the current channel automatically. If you set Time Shift to Enable(1 or 2 Hour), you can use time shift without recording a channel explicitly.
- **Default PVR Path** : Configuration for selecting the default recording device. If you attached the storage -SATA, USB-device, then you can select the default recording device.
- **Record Duration** : Configuration for default user record duration. If you select 2 Hour, then you can record a 2-Hour of channel when you record.

5.2 Media Setup



You can see the information of hard disk and format a hard disk in Media Setup menu. To enter this menu, press MENU key in normal mode, and go to Channel / PVR menu, then select Media Setup.

You can use an external SATA storage, external USB storage and USB memory stick. And it supports FAT16, FAT32, EXT2 and EXT3 file systems.

You can select the storage-SATA, USB- device in Media and select its partition. If your storage is not formatted or formatted with an unsupported file system, at first you have to format it. All data in the storage are removed when you format, so please backup your data before format. You can format hard disk by pressing OK key on Format item.

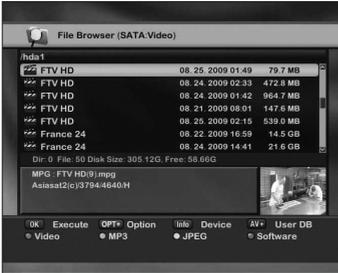
There are two ways of formatting hard disk - Media, Partition.

Media type is to format whole partition in hard disk and Partition type is to format the partition that you select in Partition item.

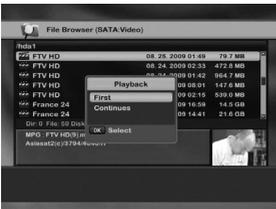
You can delete all files in partition that you select with RED key.

You want to extract the hard disk, please do safe remove by pressing GREEN key.

5.3 File Browser



You can see the files that you recorded and other media files(ex JPEG) in File Browser. To enter this menu, press BROWSER() key in normal mode. You can see the file information (size, date, duration etc) here. You can play a media file by pressing OK key on a file that you want to play. If you select a recorded channel, then you can select how to play.



- **First** : Playback from first position
- **Continues** : Playback from last stop position

Press EXIT key in File Browser, then you can watch a file playback in full screen. If the file is reached to end time, then file playback will be stopped and be changed to live channel

If you want to play other media file(Photo or Music), then please change the Media file type by pressing the color keys as follows.

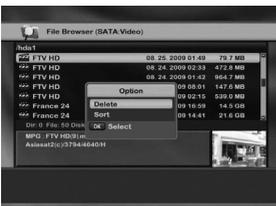
- **Red** : Video (Video Files List)
- **Green** : MP3 (MP3 Files List)
- **Yellow** : JPEG (JPEG Files List)
- **Blue** : Software (Software Files List)



You can select the storage device with INFO key.

You can do the additional functions with OPT+ key.

In these functions you can delete file and you can sort file lists by Alphabet, Date, or Size.



5.4 Instant Recording



You can start recording a channel that you are watching by pressing RECORD() key. You can record 3 channels in same transponder



The default duration is set in PVR Setup Menu and file name is derived from channel information. You can change duration by pressing RECORD() key one more.



To stop recording, press STOP() key then you can stop recording by pressing OK key on the list that you want to stop or stop all recording by pressing RED key.

While you are recording channel, you cannot enter some menu (such as Installation, Media Setup, etc..)

5.5 Time Shift

Time Shift is a time-delayed broadcast of the channel that you are watching. To use time shift, the channel must be recorded. In other word, Time Shift option must be set to 1 or 2 Hour in PVR setup menu or you have to record the channel explicitly.

- 1) Pause a channel by pressing PAUSE() key while you are watching a channel, then you can see the shifted time in message
- 2) Resume the channel by pressing PAUSE() or PLAY() key later, then you can watch the time-delayed channel.
- 3) If you want to jump to live channel, please press STOP() key.

5.5 Time Shift



You can also shift a time with trick play key in normal mode and seek key in the Play Navigation. Please refer to Trick Play and Play Navigation.

5.6 Trick Play

You can change the playback speed while you are in time shift mode or watching a file playback.

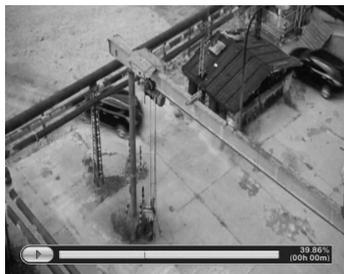
You can use trick function in normal mode or progress bar. Trick play function supports fast forward, fast reverse and slow forward as follows.

- **Slow Forward play** (): $\frac{1}{2}x$, $\frac{1}{4}x$, $\frac{1}{8}x$
- **Fast Reverse play** (): $-x2$, $-x4$, $-x8$, $-x16$, $-x32$, $-x64$
- **Fast Forward play** (): $x2$, $x4$, $x8$, $x16$, $x32$, $x64$

If you press trick key repeatedly, playback speed is changed to each step and speed is changed to normal speed in last step.

If you press PLAY () key in slow or fast speed playback, then playback speed is changed to normal speed also.

5.7 Play Navigation



You can change the time position of playback in Play Navigation Bar.

To enter Play Navigation Bar, press PLAY () key while recording a channel or watching a file in normal speed.

To change the previous or next position of playback, press LEFT, RIGHT key in Play Navigation Bar.

You can also use trick play key in this bar.

5.8 Getting Ready

Please follow below steps to get ready for recording function.

Preparation

This function works with external HDD with Serial ATA interface (eSATA HDD).

Connecting eSATA HDD to the Set Top Box

- 1) Ensure the power of both devices are turned off.
- 2) Connect STB and eSATA HDD with eSATA Cable.
- 3) Turn on the eSATA HDD.
- 4) Turn on the STB.

Formatting eSATA HDD with HDD Manager

Media Setup



HDD information



Format confirmation message box



Format complete



5.9 Recording

- 1) Press REC button on RCU.
- 2) Recording will be started with tiny message box on upper right side displaying recording time & channel name.
- 3) To stop recording, press STOP button on RCU.



- 4) **BACKGROUND RECORDING**: You can switch to other channel to watch it while recording (recording channel and watching channel should belong to same TP)
- 5) As you try to move channel in different TP, recording could be stopped with confirmation message box.



Recording CH : Luxe-TV-HD
Live Viewing CH : RAI Interna

5.10 Play Back

- 1) To browse recorded files in HDD, go to FILE MANAGER MENU.
- 2) Selecting one of them, small preview window opened and play automatically.

Recorded file lists



Small window preview
Rename, Delete, Sort option available

5.10 Play Back

- 3) For full screen playback, press OK button on RCU
- 4) For playback information, press **i** button on RCU

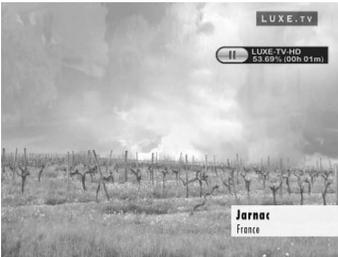
full screen playback



playback information



Pause by II button



2X speed playback by >>> button



- 5) **PLAYBACK while RECORDING** : You can playback recorded file while recording live channel.
Start recording and then follow No.3 PLAYBACK procedure.



Playback file : LUXE-TV-SD
Recording channel : LUXE-TV-HD

6. Appendix.

6.1 Troubleshooting

Problem	Solution
No display LED on the front panel. No power supply.	<ul style="list-style-type: none">• Power cord plug in correctly.
No picture.	<ul style="list-style-type: none">• Ensure that the receiver is switched on.• Check connection and correct.• Check channel and video output and correct.
Poor picture quality.	<ul style="list-style-type: none">• Check the signal level, if it is low.• Check that the RF cable is properly connected.
No sound.	<ul style="list-style-type: none">• Check the volume level of the TV and receiver.• Check the mute status of the TV and receiver.• Check the connection of audio cable.
Remote control does not operate.	<ul style="list-style-type: none">• Point remote control directly towards the receiver.• Check and replace batteries.• Check that nothing blocks the front panel.
Service is not running or scrambled.	<ul style="list-style-type: none">• Check that the smart card is appropriate for the selected service.
You have forgotten your secret PIN code.	<ul style="list-style-type: none">• Refer to change PIN code of this user's manual.

6.2 Remote Control TV Setting

6.2.1 Programing the Remote Control

There are two ways to program the remote control ; Automatic Code Search or Direct Entry.

6.2.2 Using Automatic Code Search

1. Turn on the component(TV) you want to control.
2. Press and hold the TV button until the LED on the remote control turns on, then release the key.
3. Point the remote at the component(TV), press and release the UP button, then wait three seconds or until the LED stops flashing.
At this point the remote control is searching for the correct code to program.
If, after three seconds, the component(TV) you want to control does not turn off, press and release UP button again to tell the remote to search the next set of codes.
Continue pressing and releasing UP button until the component turns off.
4. If the component you want to control does turn off ;
Press and release OK button, then the LED blinks three times.

6.2.3 Using Direct Entry Method

1. Turn on the component(TV) you want to control.
2. Locate the enclosed Code List. Find your brand of the component you want to control.
3. Press and hold the TV button until the LED on the remote control turns on, then release the key.
4. Enter 3-digit code from the code list, then the LED blinks three times.
5. If you get no reponse, repeat these steps using the next code listed for your brand until the component reponds to the remote control command.

6.2.4 Changing Volume Lock

Locking the volume controls to a single device makes it easier to control volume, without having to guess whether the volume will change. If you lock the remote's volume controls to the TV, you will always be able to change the volume to the level you want, without having to adjust it on multiple devices.

If you want to lock the volume for the TV system ;

1. Press and hold the STB component key until the LED on the remote control turns on.
2. Enter 3-digit code, 999.
3. Press and release the STB component key, then the LED blinks three times.

Unlocking volume control ;

If you want to unlock the volume for the STB component ;

1. Press and hold the STB button until the LED on the remote control turns on.
2. Enter 3-digit code, 999.
3. Press and release the STB component key, then the LED blinks three times.

6.2 Remote Control TV Setting

Brand List for TV

RADIX 298	SAMSUNG 205 206 208 209 215	SIAREM 329 362 384 397 410	STENWAY 274
RANK 395	216 218 224 229 253	SCATEL 320	STERN 244 270 275 309 312
RANK ARENA 207 395 416 417 418	260 270 277 286 287	SIEMENS 208 250 251 269 286	410
419	296 325 337 374 410	307	STRATO 208 224 270 286
RBM 395	SAMSUX 209	SIERA 208 286	STYLANDIA 253
RCA 210 211 228 229 230	SANDRA 252 253	SIESTA 374	SUNIC LINE 208 286
235	SANSEI 282	SIGNATURE 226 242	SUNKAI 208 286 310 311 389
REALISTIC 205 206 209 215 229	SANSUI 208 283 286 389 402	SILVA 208 286 307	SUNSTAR 208 224 270 286
239 245 260 262 296	SANTON 224	SILVER 207 208 261 286 307	SUNWOOD 208 224 286
RECOR 208 286	SANYO 207 208 218 223 224	388 389 410	SUPERLA 253 384
RECTILIGNE 208 286	225 239 243 253 264	SIMPSON 267 268	SUPERTECH 208 224 286 307
REDIFFUSION 307 373	286 296 297 298 325	SINGER 208 224 286 329 362	SUSUMU 254
REDSTAR 208 286	326 361 374 376 398	397 410	SUTRON 224
REFLEX 208 286 346 400	404 409 410 413 420	SINUUDYNE 208 241 286 307 329	SYDNEY 253
REKORD 359	424 425 426 432	362 384 397 405 410	SYLVANIA 200 202 204 205 213
REOC 387	SAVE 208 286	SKANTIC 309 406	267 268 288
REVOX 208 286 374	SCHUBLORENZ 307 309 376 385 387	SKY 208 286	SYMPHONIC 249
REX 244 270 275 309 312	405	SKYMASTER 399	SYSLINE 208 286
410	SCHNEIDER 207 253 254 270 286	SLX 400	[T]
RFT 218 270 286 328 374	307 336 346 353 357	SOGERA 308	TADNDY 325
380 397 413	362 387 400 405 410	SOLAVOX 206 208 218 244 286	TANBERG 307 312 408 410
RHAPSODY 252 265 266	SCIMITSU 229	307 410	TANDY 218 230 244 253 254
RIEHO 208 286	SCOTCH 260	SONIKO 208 286	410
RIODSTAR 208 224 254 270 274	SCOTLAND 410	SONITRON 253 296 298 374 404	TASHIKO 207 253 313 407 410
286 523 346	SCOTT 229 257 260 261 262	SONNECLAIR 208 286	TATUNG 208 214 218 222 253
ROBOTRON 397	SEARS 242 243 249 260 261	SONOKO 208 224 253 270 274	286 325 384
RODEX 208 286	296	SONOLOR 244 274 296 307 410	TCM 387
ROWA 253 270 401 403	SEG 207 208 224 253 270	SONTEC 208 224 286 374	TEAC 208 224 229 253 270
ROYAL LUX 331 374	286 328 329 346 396	424 426 430	274 286 287 307 323
RTF 208	400 405 408 410	SONY 206 207 208 225 230	331 346 362 389 400
RUKOPRI 208 286	SEI 208 241 286 329 384	264 272 285 286 329	TECHLINE 208 286 329 400
RUNCRO 205 227	397 405 410	SOUND & VISION 208 286 329	401 402 403 405
[S]	SEL-SINUUDYNE 208 286 307 309 310	SOUNDSEES 229 260 261 262 267	333 410
SABA 244 305 307 309 397	311 329 384 397	SOUNDWAVE 208 286 323	TECHNEMA 308
384 410	SELECO 244 270 275 290 309	SPECTRA 224 333	TECHNICS 210 211 227 279
SAGEM 274 339 389	312 321 322 373 408	SPECTRUM 222	TECHNISAT 208 286 330 410
SAISHO 224 225 241 253 270	410	SQUAREVIEW 249	TECHNOACE 261
310 384 410	SEMIVOX 262	SR2000 296	TECHWOOD 211 215 222
SAVOD 208 286 410	SEMP 242	SSANGYONG 224	TECHNIMAGEN 208
SAKIO 270	SENCORA 224	SSS 229 262	TEDELEX 208 224 253 286 296
SALORA 244 292 296 304 307	SENTRA 224 242 394 405	STAKSONIC 224	385
309 325 364 365 366	SERINO 389	STANDARD 208 224 253 254 286	TEIRON 224
367 368 369 377 384	SHARP 207 209 230 245 384	306 346	
391 392 404 405 406	SHIBOTOSHI 208 286	STARLITE 208 224 262 270 286	
407 409 410 411 412	SHIKAI 208 286	331 410	
329 379 384 396	SHOGUN 229		
205 206 209	SHORAI 261 311		
TEKNIKA 209 213 215 216 219	TRIAD 208 286	[W]	
226 229 237 261 262	TRIDENT 253 384	WALTHAM 208 253 286 304 309	
267	TRISTAR 270	323 400 406	
TELECO 335	TRIUMPH 208 241 259 286 373	WARDS 200 201 203 204 205	
TELECOR 208 253 286 410	384	213 215 226 229 235	
TELEFUNKEN 208 215 286 376	TSOSCHI 274	242 245 260 261 268	
TELEGAZI 208 270 286 410	TVTEXT 287	WATSON 208 224 286 308 346	
TELEMESTER 208 286 308	TVTEXT 95 208	400 410	
TELESONIC 208 286		WATT RADIO 307 329 362 405 410	
TELESTAR 208 286 331	[U]	WEGA 207 208 286 397	
TELETECH 208 224 286 400	UIHER 208 286 308 323 329	WEGAWOX 208 224 286	
TELETON 207 253 267 309 405	374 376 396	WELTBlick 208 253 286	
410	ULTRA 289 325	WESTON 208 286	
TELEVIDEON 308 410	ULTRAVOX 208 286 329 362 397	WHARFEDALE 208 286	
TELEVISION 208 286	410	WHITE 208 252 286 296 308	
TELEXA 329	UNIC LINE 208 286 381 389 405	WESTINGHOUSE 400	
TEMPEST 208 224 286	UNITED 208 286 387 388	WINDSOR 208	
TENNESSEE 208 286	UNIVERSAL 201 203	WINDSTAR 274	
TENSAI 208 224 253 254 286	UNIVERSUM 208 224 253 270 286	WINDY SAM 208	
303 308 311 388 398	287 307 312 323 373	WINTEL 387	
399 410	374 381 382 383 386	WORLD-TECH 333	
224	395 396 398 399 400		
TENSON 208 286 400	405 408 410 412	[X]	
TEXET 224 252 253 254	UNIVOX 208 286 397 410	XRYPTON 208 286	
THOMAS 313 325	UTAX 410		
THOMSON 208 258 286 345 405	[V]	[Y]	
THORN 208 218 242 285 286	VECTORRESEARCH 205	YAMAHA 205 229	
287 297 298 307 313	VESTEL 208 253 286 346 400	YAMASHI 208 253 274 286 389	
315 326 327 394 398	410	YOKAN 208 286	
407	VEXA 208 224 286	YOKO 208 224 253 270 286	
THORN-FRIGUSON 307 394 398	VICTOR 212	333 374 404 409	
TMK 215 229 241 260	VIDEOSYSTEM 208 286	YORK 298	
TOKAI 208 224 253 286 325	VIDEOLIQUE 253	[Z]	
400 410	VIDEOTECHNIC 253	ZANUSSI 253 275 309	
TOKYO 394	VIDEOTON 304 406 410	ZENITH 219 226 227	
274	VIDIKRON 213 329	ZENOR 404	
TOSHIBA 207 216 239 242 253	207 229 260	ZONDA 222	
259 296 298 329 370	VISA 207 208 224 225 244		
394 395	258		
TOSONIC 266	VISION 208 253 286 308		
TOTEVISION 209	VISTAR 307		
TOWADA 253 309 329 405	VORTEC 208 286		
TOYODA 224	VOXSON 208 244 286 309 323		
TRAKTON 270	396 397 410		
TRANS CONTINENS 208 253 286 400	328		
TRANSONIC 208 270 286 287 389			
401 403			

6.3 Specification

DVB-S/S2 Tuner And Channel

RF Input Range	950MHz ~ 2150MHz
Input Connector	F-Type Female (With Loop-Through Output)
Input Impedance	75[Ohm]
Input Dynamic Range	-65dBm ~ -25dBm
Multi Demodulation Standard	DVB-S, DVB-S2 : QPSK, 8PSK
Symbol Rate	DVB-S : QPSK Maximum 45Msps @ 2~45Msps DVB-S2 : 8PSK/QPSK Maximum 30Msps @ 10~30Msps
Multi Decoding Method Standard	LDPC/BCH DVB-S2(1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10)

DVB-S/S2 MPEG TS A/V Decoding

Transport Stream Format	MPEG-4 Part10 AVC/H.264 HD HP@L4.1 1920x1080@50Hz(ISO/IEC 13818 MPEG-2 TS Specifications)
Profile Level	MPEG-2 MP@HL, MPEG-4 Part10 AVC/H.264 HD HP@L4.1
Input Rate	Maximum 90Mb/s
Video Aspect Ratio	4:3, Letter Box, 16:9, Pan & Scan
Video Display Resolution	1920x1080i, 1280x720p, 720x576i/p, 720x480i/p @ 50/60Hz
Audio Decoding Format	Dolby Digital bit-streams, MPEG-1 Layer 1,2,3
Audio Output Mode	Mono, Left, Right, Stereo, Dolby Digital bit-streams(PCM 5.1 Channel, Stereo down-mixed Dolby ProLogic)

A/V And Data Output

Analog Component YPbPr	1 Set(3xRCA Vertical Array Type)
CVBS(Composite Video), Stereo Audio	1 Set(3xRCA Vertical Array Type)
S/PDIF Dolby Digital Interface	1 Optical(Fiber Optic Type)
HDMI (with HDCP Option)	1 Connector
SCART Interface	TV/VCR
USB2.0 Host Interface	2 USB A-Type Connector
Ethernet	1 Connector RJ-45 10/100 Base-T
RS-232C Data Port D-Sub9 Interface	Transfer Rate 115,200bps(Firmware Upgrade Port)

6.3 Specification

Conditional Access Interface

PCMCIA Smart Card	2 Slots For DVB Common Interface Standard 2 Smart Card Support
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Storage Device

SATA(Serial ATA)	1 External eSATA Port
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System Resource Information

Main Processor	300MHz MIPS32TM/16-e class CPU
Flash ROM	Default 32Mbytes
DDR SDRAM	Default 256Mbytes

Power Supply

Input Voltage	AC 100-240V ~ 50/60Hz
Power Consumption	Maximum 35Watts
Protection	Separate Internal Fuse
Type	SMPS(Switching Mode Power Supply)
Safety And EMI	For Country Regulation

Physical Specification

Dimension(WxDxH)	340x268x60[mm]
Net Weight	About 3.0Kg
Operation Temperature	5°C ~ 50°C
Storage Temperature	-40°C ~ 65°C