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Introduction

1.1 Overview

This satellite receiver is designed for the reception of free-to-air and encrypted channels. Depending on your location, enjoy the rich choice of up to 10,000 different channels broadcasting a large range of programs: culture, sports, cinema, news, events, etc. This receiver is assembled with highly qualified electronic parts.

1.2 Main Features

- ► High-Definition Personal Video Recorder (HD PVR)
- Compliant MPEG-II/ MPEG-IV/ H.264.
- ▶ Output resolution 576p & 576i, 720p, 1080i & 1080p
- ▶ HDMI & Component Output (YPbPr) with Upscaler to Improve Picture Quality
- ▶ 1 Smart Card Reader & 2 Common Interface(2CI)
- ▶ MP3 player and JPEG viewer via USB flash Drive (memory stick)
- ▶ Multisatellite search.
- On-screen display with true color full resolution.
- ▶ DiSEqC control version 1.0, 1.1, 1.2 and USALS compatible.
- Enhanced 16 favorite channel groups.
- > Powerful channel control by favorites, lock, skip, move and delete function.
- Channel sort by alphabet, transponder and CAS.
- Multilingual OSD Menu : English, Spanish, Portuguese, French, German, Italian, Turkish, Arabic, Persian, Russian, Greek, Czech, Romanian, Polish.
- Extended EPG and program reservation on EPG.
- ▶ Teletext & Subtitle by OSD and VBI
- ► Last channel memory function.
- ▶ Total 10,000 channels programmable.
- ► Factory default channel list
- Sensitive Tuner
- Support 4:2:0
- ▶ Less than 1 second channel change
- Dolby Digital Optical S/PDIF

1.2 Main Features

- ▶ 2 Scarts, (CVBS, RGB / Loop-through RGB)
- Various games
- Parental lock / Installation lock / receiver lock.
- Zoom function on pause/live channel
- Multipicture display.
- Support for multiple language broadcasts
- SCPC & MCPC receivable from C/Ku band satellites LNBs supported : Universal, Single, Single S & C band wideband LNBs

- ▶ AC 100~250V, 50/60Hz
- ► LNB Short Circuit protection onboard
- ▶ Software & Channel List download via USB 2.0
- USB 2.0 Ports: PVR function using external HDD, playback MP3, JPEG Photos & Software transfer
- Blind Search
- ► Lan 10/100Mbps Ethernet
- Manufactured under license from Dolby Laboratories.
 DIGITAL PLUS "Dolby" and the double-D Symbol are trademarks of Dolby Laboratories.

DiSEqC is a trademark of EUTELSAT

The digital receiver can supply a current 400 milliampere at maximum for antenna devices including LNB, DiSEqc switch and antenna rotor through each antenna input connection separately but not simultaneously. If there are too many antenna devices to be supplied with power through antenna input connections simultaneously for a long time, your LNBs may lack power to operate. So it is recommended to link the LOOP OUT 1 connector to the LNB INPUT 2 connector with a loop cable even though the digital receiver is designed to operate over two antennas alternatively.

Safety/Precautions

2.1 Safety

Be sure to read this user's manual before starting the operation of the unit.



Never open the cover. It is very dangerous to touch the inside of the unit due to possible electric shock.



When you do not use this unit for a long time, make sure that power cord is pulled out from the outlet. Also do not use a damaged power cord as it may cause fire or electric shock.





Do not touch the power cord with wet hands as it may cause electric shock.



Place the unit in a well ventilated and no-heat environment.



A professional installation is required. If reception is interrupted, contact your local service centre.



2.2 Precautions

When installing the unit

Install the unit horizontally. An uneven installation may cause the unit to be damaged.



Do not put heavy items such as a TV set on the unit. That may damage the unit.





Do not leave the unit where the water drops or splashes.



Do not install the unit:

- Where it is subject to vibrations
- · Where it is exposed to direct sunlight
- · Where there is humidity
- · Where the temperature is too high or too low. · Where there is no ventilation



▶ The mains plug is used as the disconnect device. The disconnect device shall remain readily operable.

Do not put water holding items such as vases on the unit.



Moving the unit to a hot area from a cold one will cause condensation. Do not operate the unit for one or two hours or until it has dried completely.



Points to Check before Use

3.1 Accessories



 If any of the above-listed accessories is missing, contact your sales representative.

3.2 The Satellite dish

Your dish should be properly installed and azimuth and elevation must be precisely set up.

► This unit supports DiSEqC 1.2 and can work with a compatible antenna positioner. Ask your dealer for information.

Controls/Functions

4.1 Front Panel



- **1** Standby/Power on Indications Lamp : Flashes red light in "Standby" mode and shows no light in "Power ON" mode.
- **2** Power : Switches the receiver between "Standby" and "Power ON" modes.
- 3 4 CH (▼/▲): To switch channels or change the cursor position on the application screen.
- 5 Smart Card Reader(Option) : Insert smart card for encrypted channel access.
- 6 7 Common Interface Slot : For CI module(PCMCIA module) with smart card to watch pay TV channels.



No.	Name	Connector	Function
1	LNB INPUT	IEC 169-24 FEMALE	IF input from LNB to digital tuner
2	LNB OUTPUT	IEC 169-24 FEMALE	IF loop-through output from digital tuner
3	S/PDIF	Fiber Optic	Digital audio output (Optical)
4	USB	USB A-type	USB 2.0
5	VCR/AUX	SCART	SCART CVBS Video Output
			CVBS, RGB Video Input
			Audio Output
6	TV SCART	SCART	CVBS Video Output, Audio Output
7	RS-232C	DB-9	Low speed serial port
8	LAN	USB A-type	USB 2.0
9	HDMI	HDMI	Digital Video/Audio Output
10	VIDEO	RCA cinch	Composite video output
11	AUDIO	L RCA cinch	Left audio output
12	AUDIO	R RCA cinch	Right audio output
13	Y	RCA cinch	Component video output(Y)
14	Pb	RCA cinch	Component video output(Pb)
15	Pr	RCA cinch	Component video output(Pr)

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F1 **F2** (F3)

Eclarke-tech

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. 9 --<u>13</u> --<u>12</u>

15

· 19

off.

1 POWER : To turn the receiver On/Off. 2 STAND BY : Just turn the receiver off. 3 TEXT : To show the teletext contents if teletext is transmitted 4 SUBTITLE : To turn closed captions on or 5 AUDIO: To show the Multi-language

audio track, the stereo-mono mode and subtitle information.

6 MUTE : To turn the sound On/Off.

7 Numeric Keys (0-9) : To enter numerical settings (such as channel numbers) directly.

8 TV/RADIO: To switch between TV and Radio.

9 SLEEP: To set the STB off after minutes.

10 GUIDE : To show the TV/Radio program guide.

11 INFO: To show information about the current program. Press twice to show detail.

12 RECALL : To move to the previous channel. Used for special functions in menu mode.

13 ASPECT : To select a TV aspect ratio with Pan Scan or Letter-Box(4:3) (Full screen or pillar box(16:9).

14 MENU: To enter or exit the main menu.

15 EXIT : To exit from the present menu and move to the previous menu.

16 - 17 Up & Down : To switch channels in non-menu mode and move the cursor up/down in menu mode.

4.3 Remote controller



18 - 19 Vol Up & Down : To change the volume level in non-menu mode.

- 20 OK: To show the Channel List in nonmenu mode and select an item or confirm in menu mode.
- 21 22 Vol Up & Down : To change the volume level in non-menu mode.
- 23 24 Double arrow Up/Down : To move to the next or previous page when many pages are available.
- 25 FILELIST : To display the filelist.
- 26 **GROUP**: To change the channel groups(Satellites or favorite groups).
- 27 30 Color Key : Select the option such as View List, Select Disk, Rename.
- 31 REW : Playback in rewind mode.
- 32 Time Shift : Play Content. PAUSE
- 33 PLAY : Play Content.
- 34 FWD : Playback in forward mode.
- 35 REC : Start recording.
- 36 STOP: Stop Playback.
- 37 SLOW : Playback in slow mode.
- 33 ADVANCE : Go to live channel.
- 39 MOSAIC: To display multiple pictures.
- 40 FREEZE : Freeze Live picture
- 41 ZOOM : To zoom In/Out.
- 42 V.FORMAT : To switch the resolution of video output.
- 43 F1 : Media File Playback
- 44 46 F2 ~ F4 : Reserved button for new function.

When Connecting the Receiver to a TV with RF connectors

1 Connect the TV antenna to TV ANT IN

How to Connect

- 2 Connect the Video and Audio of the TV to Video and Audio: connect the red and white connectors to Audio R and Audio L, and the yellow connector to Video
- 3 Connect your satellite dish



Operation

6.1 Getting Started

After your receiver is powered on, proceed with installation as follows :

1) Menu Language Setting

- **1** Turn on your TV and receiver.
- 2 The menu for language selection will appear.<Figure 6.1.1>
- Select one language and press or to proceed.



<Figure 6.1.1>

2) Country Setting

1 Select a country and press the or button on.



<Figure 6.1.2>

6.1 Getting Started

3) Antenna Setup

1 Press the **MENU** button to display the main menu.

- 2 Use () , () and () to move in the menu.
- Press on 'Dish Setting'. The following window will appear. <Figure 6.1.3> If you have a motorized dish, press or on 'Motorized Setting'. <Figure 6.1.4>
- * Note : Enter a 4-Digit password if need arise. The default password is '0000'.

Satellite	< 105.5E ASIASAT3S >	Satellite	< 105.5E ASIASAT3S
Frequency	[2] 3.708 GHz(H)	Frequency	[2] 3.706 GHz(H)
LNB Power	ON	DISEqC Motor	OFF
LNB Type	Single	Move	
LNB Freq	5.150	Move Fine	
22KHz	OFF	Motor Control	
DISEqC 1.0	2 of 4	Go To	
DISEqC 1.1	OFF	Save	Press OK
Level	80 %	Level	89 %
Quality	75 %	Quality	75 %

<Figure 6.1.3>

<Figure 6.1.4>

- (a) Select the item that you want to edit, and set its parameters as desired. < Dish Setting>
- Satellite : Select any satellite by pressing ${\color{red} @}$ / ${\color{black} \textcircled{B}}$ buttons on the remote.
- Frequency : Select the Frequency
- LNB Power : Select among ON/OFF/13V/18V.
- LNB Type : Select among Single/Universal/OCS.
- LNB Freq : Set the frequency of the LNB oscillator.
- 22KHz : When not AUTO, set the signal path from LNB or switch by selecting a control signal among 0/22KHz.
- DiSEqC 1.0 : Select DiSEqC 1.0 Port.
- DiSEqC 1.1 : Select DiSEqC 1.1 Port.
- Select the item that you want to edit and set its parameters as desired. <Motorized Setting>
- Satellite : Select any satellite by pressing ${rak math q}$ / ${rak math p}$ buttons on the remote.
- Frequency : If the default TP frequency is not appropriate, you can select another TP frequency at which to check for signal.
- DiSEqC Motor : Select DiSEqC protocol among OFF/1.2/USALS as appropriate for your Motor.

English

6.1 Getting Started

(When the DiSEqC Motor parameter is set as 1.2)

- Move : You can move the dish to the West/East.
- Move Fine : Move the dish position 1 step at a time to west/east by pressing 🤹 / 😰 buttons.

- Motor Control : Control motor by or press button on the remote.
- Recalcuate : Recalculate the position of all other saved satellites relative to the known position.
- Reset System : Reset the position of all saved satellites.
- Goto Reference : Move the dish to the 0 position.
- Disable Limit : Disable east and west limit.
- Enable Limit : Enable the saved east and west limit.
- Set East Limit : Edit & Save east limit by pressing 🧟 / 😰 or 🐼 buttons.
- Set West Limit : Edit & Save limit by pressing 🧟 / 😰 or 🐼 buttons.
- Go To : Go to the position of the saved satellite.
- Save : Save the current setting of DiSEqC 1.2 system.

(When the DiSEqC Motor parameter is set as USALS)

- Move : Move the dish position to west/east by pressing 🧟 / 😰 buttons.
- Motor Control : Control motor by or press button on the remote.
- Goto Reference : Move the dish to the 0 position.
- Disable Limit : Disable east and west limit.
- Enable Limit : Enable the saved east and west limit.
- Set East Limit : Edit & Save east limit by pressing 🦉 / 😰 or 🐼 buttons.
- Set West Limit : Edit & Save limit by pressing 🧟 / 😰 or 🞯 buttons.
- Sat Degree : Satellite location.
- Antenna Position : Press or
- Goto Reference : Move the dish to the reference 0 position.
- Antenna Longitude : Your longitude at present.
- Antenna Latitude : Your latitude at present.
- * Note : You need to know what LNB you are using to correctly set the L.O. (localoscillator) frequency.
- * Note : You need to understand how your receiver is connected to properly set the 22KHz and DiSEqC.

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6 When you are done, press the **EXIT** button.

6.1 Getting Started

4) Satellite Scan

Through this function, the receiver searches for all the available channels and saves them in memory.

- Auto Scan <Figure 6.1.5>
- Select the satellites you want to search by pressing the button on the remote.
 You can select more satellites by pressing the / buttons and button on the remote.
 - Search Type : Decide for which channels to search (All channels/ Free channels only/ TV channels only).
 - Network Search : Set ON to find more transponders (frequencies) through a Network Information Table (NIT) scan. That is, when the broadcaster is sending a NIT through a given transponder, the receiver will also scan for transponders listed in the NIT and not otherwise recognized. (this can happen when a transponder is new)

2 Press or under 'SCAN' to scan the selected satellites. < Figure 6.1.6>



<Figure 6.1.5>

<Figure 6.1.6>

6.1 Getting Started

Blind Scan <Figure 6.1.7>

 ${\ensuremath{\textcircled{}}}$ Select the satellites you want to search by pressing the button on the remote.

Press () / () to set the "TP" and "Pol" and "Mode" options.

- TP : Select TP frequency
- Pol : Select Vertical / Horizontal / All.
- Mode : All / Free / TV
- All : To search all the Free To Air and scrambled channels, TV & Radio channels.
- Free : To search Free To Air channels only.
- TV : To search TV channels only.
- SCAN : Begin channel search of the selected satellites.

Manual Scan <Figure 6.1.8>

- Select a transponder.
- To change a transponder's information (Frequency, Symbol Rate), use the NUMERIC buttons.
- $\ensuremath{\mathfrak{S}}$ To add a new transponder, press the $\ensuremath{\mathsf{GREEN}}$ button.
- To delete a transponder, press the **YELLOW** button with the cursor next to the Frequency parameter.
- To search a transponder, set its different parameters and press or



<Figure 6.1.7>

<Figure 6.1.8>

6.1 Getting Started

▶ Package Identifier (PID) Scan <Figure 6.1.9>

- Select a transponder.
- To change a transponder's information (Frequency, Symbol Rate), use the NUMERIC buttons.

- ❸ To add a new transponder, press the **GREEN** button.
- To delete a transponder, press the YELLOW button with the cursor next to the Frequency parameter.

and the second se	_	_	_				-
Satellit	e		105.5E ASIASAT3S				
Freque	ancy		[2] 3.70	08 GH2		
Symbo	I Rate			8.000	MS/s		
Polariz	Polarization Video PID Audio PID		H AUTO AUTO				
Video							
Audio							
PCR PI				19	0 2		
Level					90	%	
Quality					75	%	-

<Figure 6.1.9>

- * Note : If you cannot access programs after correctly completing a scan procedure, please contact your seller or your installer.
- ► Fast Scan <Figure 6.1.10>
- For Provider choose Canal Digitaal or TV Vlaanderen or TeleSat.
- Por CHs Renumber select ON/OFF
- Press the **Red** button.



<Figure 6.1.11>

<Figure 6.1.10>

English

6.1 Getting Started

6) Channel Selection

You can use GL / car to navigate between channels until you find the channel you want.

► If you know the channel number, you can enter it with the **NUMERIC** buttons and wait 2 seconds until the channel is changed.

► If you know the channel name or transponder or CAS, you can press or to display the channel list <Figure 6.1.12>



<Figure 6.1.12>

- In the right side of screen, detailed information about the selected channel will be displayed. (Satellite Name, Frequency(Polar) and Channel Name)
- 2 You can use the following buttons to navigate between channels:
 - CAN / CAN : Moves one channel up/ down.
 - 🙀 / 🙍 : Moves one page up / one page down.
 - RED : Shows all channels in the current group.
 - GREEN : Shows all channels sorted alphabetically.
 - YELLOW : Shows all channels sorted by Transponder.
 - BLUE : Shows all channels sorted by CAS system.
- S Press or when the selection bar is positioned on the desired channel.

6.1 Getting Started

7) Other Functions of the Remote Control

- Volume Control
- 1 While watching a program, press a or p to control the volume.
- You can press the MUTE button to remove the sound of the program: the mute icon will be displayed. Press the MUTE button again to turn the sound back on.

Channel Information

- You can press the INFO button to display the information banner for a few seconds.
- 2 If you then press the **INFO** button again, a detailed banner will be displayed.

TV/ RADIO switching

You can press this key to change from a TV channel to a Radio channel or vice versa.

RECALL

Press to return to the previous channel.

Audio

Press to adjust the subtitle and/or audio status of the current channel:

- Audio Mode : Select between, Stereo \rightarrow Mono-Left \rightarrow Mono-Right
- Audio Track : Select between tracks available in this program
- Audio Level : Select between, High \rightarrow Medium \rightarrow Low
- * Note : These subtitle and audio parameters are workable only when the desired channel supports these functions.

► TEXT

The Teletext service is a text data service sometimes available from the Service Provider.

► FREEZE

You can press this key to freeze the video. Press it again to resume the video.

► GROUP

When watching TV or listening to Radio, you can press this button to view the list of satellites and/or favorite channel groups. Only registered satellites and favorite groups are displayed.

6.1 Getting Started

Multi Picture Display <Figure 6.1.13>

You can press (a) to display multiple pictures; you can choose the number of pictures such as 1X2, 2X2, 2X3 or 3X3.



<Figure 6.1.13>

► ZOOM

You can press (to zoom in the video. <Figure 6.1.14>

- Press the PAUSE button and press . You can zoom in sections of Freezed Video <Figure 6.1.15>
- 2 While watching a program, press (2). You can zoom in sections of playing video.
- O To cancel the freeze status, please release the zoom status.





<Figure 6.1.14>

<Figure 6.1.15>

6.1 Getting Started

► SUBTITLE <Figure 6.1.16>

You can press 💿 to select the subtitle language of current channel.

▶ SLEEP <Figure 6.1.17>

You can set the your receiver to turn off after a few minutes. Press
to set the sleep timer.

- To cancel the sleep timer, please press (a) until you set time as "0 min". (Disable, 10, 20, 30, 60, 100, 120 Minutes)





<Figure 6.1.16>

<Figure 6.1.17>

▶ V.FORMAT <Figure 6.1.18>

You can press to change the video resoultion Select between, (1080p, 1080i, 720p, 576p, 576i).

▶ WIDE <Figure 6.1.19>

You can press 📼 to change the TV aspect ratio.

- 4:3 : Pan-Scan or Letter-Box

-16:9 : Full-Screen or Pillar-Box





<Figure 6.1.18>

<Figure 6.1.19>

▶ Informaion bar <Figure 6.1.20>



1	Navigation key up / down
2	Channel number
3	Channel name
4	Group / Satellite or Favorite
5	Clock
6	Video Format Resolution/Output
7	Program (current) ,Program (next)
8	Channel with Teletext
9	Channel with Subtitles
10	Stereo
11	Dolby Digital
12	Channel in HDTV
13	Channel with Scrambling / Pay IV
14	Volume
15	Signal Quality Level

6.2 System Setting

1) Time Settings

This submenu allows you to set your local time, wake up time, wake up channel and sleep time. <Figure 6.2.1>

- GMT Usage : Set this ON for the local time to be determined by adjusting the time difference with the GMT (Greenwich Meantime) according to your location.
- Current Date : If GMT Usage is OFF, you can modify the date by pressing or
- Current Time : If GMT Usage is OFF, you can modify the time using the NUMERIC buttons.
- Summer Time : Select the period during which Summer Time is in force.
- Local Offset : If GMT Usage is ON, Local time is GMT time + Local Offset.
- Wake Up Mode : Select the wake up frequency. (Off/Once/Daily)
- Wake Up Time : Set the wake up time using the NUMERIC buttons.
- Wake Up Channel : Press or to set the wake up channel.
- Sleep Mode : Select the Sleep frequency. (Off/Once/Daily)
- Sleep Time : Set the sleep time using the NUMERIC buttons.
- Automatic Standby : Selects auto standby time (OFF/After 1~8Hour) After making your selection press or to confirm
- Timer Lead Time : Press or to set the Timer Lead In And Lead Out Time.



<Figure 6.2.1>

6.2 System Setting

2) A/V Output Settings

This submenu allows you to specify the audio/video output. <Figure 6.2.2>

- Audio Language : Set the default audio language when selecting a channel.
- Subtitle Language : Set the default subtitle language.
- TV Type : Select the TV type.
- SCART : Select the SCART output.(CVBS/RGB)
- Screen Format : Select the screen format. (16:9 / 4:3)
- Display Format : Select the TV aspect ratio(Letter Box/Pan Scan, Full Screen/Pillar Box)
- Video Format : Select the Scanning type(Interaced, Progressive)
- Digital Audio : Select the Audio output type (Dolby SPDIF / PCM / DOLBY HDMI)
 - PCM Select this option only if the stereo system or amplifier cannot decode Dolby
 - DOLBY SPDIF / DOLBY HDMI Select this option only if the stereo system or amplifier can decode both Dolby Digital and Linear PCM signals.
- SPDIF Latency : Audio delay is adjustable as 10ms between 0 and 500ms(max.) at optical output.



<Figure 6.2.2>

6.2 System Setting

3) OSD Settings

This submenu allows you to set the menu language, OSD transparency and Information and Volume timeouts. <Figure 6.2.3>

- Menu Language : Select the desired language for the menu.
- Transparency : Set the OSD transparency of the menu. (1% $_{\sim}$ 100%)
- Information Timeout : Select the display duration of the information banner. (1, 2, 3, 5 or 10 seconds)
- Volume Timeout : Select the display duration of the volume box. (1, 2, 3, 5 or 10 seconds)
- Use Recall list : Store previous channels. If you press recall key on RCU then you will show recall list.



<Figure 6.2.3>

4) Front Display Setting

TThis submenu allows you to set the Standby Mode. <Figure 6-2-5>
- Standby Mode : Select the standby Mode. (Normal / Power Saving)



<Figure 6.2.4>

English

6.2 System Setting

5) Security Settings

This submenu allows you to set password options and to lock or unlock access to menus (Note : PIN code and password are the same). <Figure 6.2.5>

- Receiver Lock : Set ON to require entering a PIN code at powering on.
- Install Lock : Set ON to require entering a PIN code to access the installation menu.
- Channel Lock : Set ON to require entering a PIN code to access the channels menu.
- Lock Channel Confirm : Set ON to require entering a PIN code to access a locked channel.
- Age Limit : Set to prevent children or unauthorized people from watching programs. Select among (Free/ 8 above/12 above/15 above/18 above). When program information (age limit) is available from broadcaster and this age limit exceeds the selection, a PIN code is required to access the channel/program.
- Current Password : To change your password, first enter your current password.
- New Password : Enter the new password that you want to set.
- Verify Password : Enter the new password again for confirmation.
- * Note : The default password is '0000'.

	< OF	FF >
Install Lock	0	N
Channel Lock	0	N
Lock Channel Confirm	0	N
Age Limit		ee
Current Password	\$5	??

<Figure 6.2.5>

6.2 System Setting

6) Database Reset

This submenu allows you to restore the factory set values (useful when encountering problems after changing settings). <Figure 6.2.6>

- Delete Radio Channels : Erase all radio channels in the database.
- Delete Scramble Channels : Erase all scramble channels in the database.
- Delete All Channels : Erase all channels.
- Factory Set : Erase all channels and restore the factory default settings.



<Figure 6.2.6>

6.2 System Setting

7) IP Setting

If the Network supports DHCP , IP settings can be allocated automatically. If the Network does not support DHCP, the Addresses must enter manually (Static IP).<Figure 6.2.7>

- DHCP Usage : On/Off to receive IP settings automatically
- IP Address : Here enter the IP address
- Subnet Mask : Here enter Subnet Mask Number from your Network
- Gateway : Here enter IP address of Gateway (e.g. router)
- DNS : Here Enter IP address of main DNS Server
- Mac Address : Mac Address display



<Figure 6.2.7>

- Firmware update : Support download from a LAN.
- **1** BLUE button, appear input target IP address.
- **2** button to connect after input a target IP.
- S Choose a update software and (OK)button for downloading.
- * Note : Have to run PC tool before connect PC.



<Figure 6.2.8>

6.3 Channels

1) Set Favorites

This submenu allows you to set up favorite groups of channels. You can select **TV** or **Radio** channels in an alternative way by pressing the **TV/RADIO** button. The receiver supports 16 favorite groups.

- O Press or on 'Set Favorites'. The list of groups will be displayed. <Figure 6.3.1>
- Press (IV) / (IV) and (IV) to choose a group. The following menu will be displayed. <Figure 6.3.2>

If you want to change the name of a favorite group, press the **RED** button.

3 Press or to add (or remove if previously added) the selected channel to/from the favorite channel group.

• Press the **EXIT** button to return to the previous menu.



<Figure 6.3.1>

<Figure 6.3.2>

6.3 Channels

2) Edit Channels

This submenu allows you to rename channels and input user PID. You can select **TV** or **Radio** channels in an alternative way by pressing the **TV/RADIO** button. You can choose a channel list group by pressing the **GROUP** button.

- Press 🐼 on 'Edit Channels'. The following menu will be displayed. < Figure 6.3.3>
- 2 Press or on the channel that you want to edit.
- Service Press on `Edit Name' to rename the channel; the keypad will be displayed.
- Similarly, you can edit the PID data using the **NUMERIC** keys.
- * Note : The VIDEO PID, AUDIO PID and PCR PID are very important for optimal satellite signal reception. We recommend you get professional advice where available.



<Figure 6.3.3>

6.3 Channels



3) Move Channels

This submenu allows you to move channels.

You can select TV or Radio channels in an alternative way by pressing the $\ensuremath{\text{TV/RADIO}}$ button.

You can choose a channel list group by pressing the $\ensuremath{\textbf{GROUP}}$ button.

O Press on 'Move Channels'. The following menu will be displayed.<Figure 6.3.4>

Press on the channel that you want to move; a 'move' icon will be displayed.

3 Use the 🙉 / 🍘 / 😨 / NUMERIC buttons to move the selected channel.

4 Press or again to place the channel.

⁽⁵⁾ Press the **EXIT** button to return to the previous menu.



<Figure 6.3.4>

6.3 Channels

4) Lock Channels

This submenu allows you to lock channels to control access to them. Once a channel is locked, you will be asked to enter a password whenever you try to watch it. You can select TV or Radio channels in an alternative way by pressing the **TV/RADIO** button. You can choose a channel list group by pressing the **GROUP** button.

* If you set 'Lock Channel Confirm' (refer to <6.2>security setting) to OFF, you will not be asked to enter a password even if the channel is locked.

Press or on 'Lock Channels'. The following menu will be displayed. <Figure 6.3.5>

- Press on the channel that you want to lock/unlock; the lock icon will be displayed/removed.
- S Press the EXIT button to return to the previous menu.



<Figure 6.3.5>

6.3 Channels

5) Skip Channels

This submenu allows you to skip channels. Once a channel is set to be skipped, it will be whenever you navigate channels using (I) / (I) in non-menu mode. You can select TV or Radio channels in an alternative way by pressing the **TV/RADIO** button. You can choose a channel list group by pressing the **GROUP** button.

- * Note : You can still access a 'skipped' channel if you enter its number using the NUMERIC buttons in non-menu mode.
- Press or on 'Skip Channels'. The following menu will be displayed.<Figure 6.3.6>

Press on the channel that you want to skip/un-skip; the skip icon will be displayed / removed.

³ Press the **EXIT** button to return to the previous menu.



<Figure 6.3.6>

6.3 Channels

6) Delete Channels

This submenu allows you to delete channels. You can select TV or Radio channels in an alternative way by pressing the **TV/RADIO** button. You can choose a channel list group by pressing the **GROUP** button.

- * Note : Be careful! If you delete a channel, you will not be able to access it again until you rescan.
- Press or 'Delete Channels'. The following menu will be displayed. <Figure 6.3.7>
- Press on the channel that you want to set/unset for deletion; the delete icon will be displayed/removed.
- Press the **INFO** button to delete all channels in the current list; you will be asked to enter your password.
- Press the EXIT button to return to the previous menu and confirm deletion.



<Figure 6.3.7>

6.4 Electronic Program Guide

1) EPG

This submenu allows you to access the electronic program guide when available.

- O Press the GUIDE button to display the guide menu. <Figure 6.4.1>
- 2 Press a / 😰 to see the previous/next guide.
- 3 Press (/ () / () / () to select another channel. < Figure 6.4.1>
- Press or to watch the selected channel and access its EPG data.
 - If you press or in the right side of the screen (Event display list).
 - If the current time EPG is selected, you will return to the previous menu and get signal from the selected channel.

- If a future time (next) EPG is selected, the selected program will be reserved and the event color will change.
- You can select TV or Radio channels by pressing the **TV/RADIO** button
- $\ensuremath{\textcircled{}}$ You can choose a channel list group by pressing the $\ensuremath{\textbf{GROUP}}$ button.
- \bigcirc You can access the timer menu by pressing the **RED** button. <Figure 6.4.2>

2) Timer

This sub menu allows you to set the on/off time of your receiver.

- This submenu allows you to set on/off times of your receiver. To display the timer menu, press the **RED** button while in the guide menu. <Figure 6.4.2>
- 2 Press or to select a timer's parameter.
- 3 Press () (to change the parameter.
- Timer No: Select the timer that you want to modify. (1-8)
- State : Select the timer frequency. (off/once/daily/weekly)
- Date : Press or to display a Calendar pop-up; Select a date
- Start Time : Input the time for your receiver power-on; use the NUMERIC buttons
- End Time : Input the time for your receiver power-off; use the NUMERIC buttons
- Channel : Press or to display a Channel list pop-up; Select a channel
- File Name : You can change recording file name.
- Record : Set record On/Off.

6.4 Electronic Program Guide



- If you want to record a program in the right side of the screen, you can select a program by using (x). The selected program will be reserved and the evnet color text will change to red. <Figure 6.4.3>.
- You can also see change the timer menu.<Figure 6.4.4>



<Figure 6.4.3>

<Figure 6.4.4>

6.5 Games

1) Tetris

- \bullet Press \bullet on `Tetris'. The following menu will be displayed. <Figure 6.5.1>
- 🛿 You can choose a skill level using 🤕 / 😰.
- 3 Press or to start the game <Figure 6.5.2>, or press the EXIT button to return to the previous menu.
- Press or to rotate a block.
- 😉 Press 🧟 / 😰 to move a block.
- 6 Press (to drop a block.
- You can see the next block in the top-right small window.
- ³ Press the **EXIT** button to quit the game.





<Figure 6.5.1>

<Figure 6.5.2>

6.5 Games

2) Sokoban

How to play Sokoban: you have to push the balls to their correct positions. The balls can only be pushed, never pulled, so you have to be careful not to push them into a corner where you can't get them out from. You can only push one ball at a time.

- Press on 'Sokoban'. The following menu will be displayed. < Figure 6.5.3>
- 🛿 You can choose a skill level using 🙀 / 🙍
- S Press or to start the game < Figure 6.5.4>, or press the **EXIT** button to return to the previous menu.
- ④ Press () / () / () / () to move.
- **6** Press the **RED** button to undo the previous move. You can undo only one step.
- **O** Press the **GREEN** button to restart the game.
- Press the YELLOW/BLUE buttons to jump to the previous/ next level. You can jump only between completed levels.
- **3** Press the **EXIT** button to guit the game.



<Figure 6.5.3>

😑 Previous Level 🛛 🔵 Next Leve

<Figure 6.5.4>

6.5 Games

3) Snake

- 1 Press or on 'Snake'. The following menu will be displayed. < Figure 6.5.5>
- 2 You can choose a skill level using 🔍 / 🙉.
- **3** Press or to start the game <Figure 6.5.6>, or press the **EXIT** button to return to the previous menu.
- **3** Pass through the **GREEN** icon to increase your score; the length of the snake increases.
- ³ Pass through the **RED** icon to decrease the snake's length.
- Avoid the **BLACK** icons. If you hit a **BLACK** icon (block), the game ends.
- **8** Press the **EXIT** button to guit the game.





<Figure 6.5.5>

<Figure 6.5.6>

4) Calculator

This submenu allows you to use a calculator on the screen. <Figure 6.5.7>

- You can switch between Hex (Hexadecimal) and Dec (Decimal) basis for arithmetic with the **RED** button of the remote control unit.
- Use the Numerical and the 🕷 / 😰 / 🐼 buttons on the remote control unit.





English

6.6 Storage

This submenu allows you to play various MP3 files, view JPG files or download a new software by connecting your USB flash drive.

1) MP3 menu

- Press the EXIT button to hide the file list. You can then select an option using (7).

 <p
- ${f S}$ You can then change the volume by pressing ${f Q}$ / ${f p}$.
- 4 Press or on (1157) to display the MP3 file list.
- 6 Press or on (1199) to display information about the selected MP3 file.
- FILELIST : Shows/Hides the MP3 file list
- INFO : Shows information about the MP3 file you selected.
- YELLOW : Choose the Hard disk volume or usb device with USB hub.



<Figure 6.6.1>

<Figure 6.6.2>

6.6 Storage

2) JPG menu

- Press (PL) / (BL) to select a picture. <Figure 6.6.3>
- **2** Press or to show the picture you want to display.
 - $\ensuremath{\text{RED}}$: Sets the time interval between slides.
 - $\ensuremath{\mathsf{GREEN}}$: Selects slide show.
- YELLOW : Choose the Hard disk volume or usb device with USB hub.
- BLUE : Rotate the picture.
- FILELIST : Shows/Hides the JPEG file list.

> /USB0/JPG/	
t)	
hadabinmiss_2.jpg	
hadabinmiss_3.jpg	
hadabinmiss_4.jpg	
hadabinmiss_5.jpg	
hadabinmiss_6.jpg	
hadabinmiss_7.jpg	
hadabinmiss_8.jpg	
hadabinmiss_9.jpg	

<Figure 6.6.3>

3) Data Transfer menu

- () Select the software you want to download by using (2) / (2) in the list <Figure 6.6.4>
- **2** Press **os** to start software downloading
- RED : Upload the current CNDF(compressed dish and channel data file).
- YELLOW : Choose the Hard disk volume or usb device with USB hub.
- BLUE : Upload the current software.
- * Warning : Please do not switch off your receiver before software downloading is completed.



<Figure 6.6.4>

English

6.6 Storage

4) Disk Manager

- Default Disk : Set the pvr disk.
- Disk Information : Choose the Hard disk volume or usb device with USB hub. You can view a information of usb devices (used size, total size, free size) <Fig 6.6.5>
- Chek Disk : Choose the Hard disk volume or usb device with USB hub. You can check the usb devices. <Fig 6.6.6>



<Figure 6.6.5>

<Figure 6.6.6>

- Format Disk : You can format the usb devices. <Fig 6.6.7>





- Testing USB Speed : USB speed test.
- Timeshift Rec Time : You can change default timeshift recording time.
- Auto Timeshift : Set automatic timeshift On/Off.
- Skip Time : Set jump time when you press 🧟 / 😰 key on RCU during file playback.
- HDD Sleep Time : HDD is change sleep mode after selected time.

6.6 Storage

5) File manager

- Press YELLOW button for connect PC.
- 2 Press or button after input IP address of PC.
- **3** Press or button after choose target.

* Note : Have to run PC tool before connect PC.



<Figure 6.6.8>

<Figure 6.6.9>

- Press RED for chooses files.
- Press & button to choose Copy/Move/NewFolder/Delete/Rename after press MENU button.
- **6** If select copy or move, press button to move target for paste.
- Press MENU button to paste taget.
- B Select a Paste for Copying or Moving files.



<Figure 6.6.10>

<Figure 6.6.11>

6.7 System Information



You can check the current information about your receiver such as receiver model name, S/W (software) version, H/W (hardware) version, manufacturing date, etc. <Figure 6.7.1>

* Note : This information is useful to download new software and/or repair the receiver.



<Figure 6.7.1>

6.8 Common Interface

1) CAM Initializing

To enjoy scrambled channels, you will need a Common Interface Conditional Access Module (CAM) and a Smart Card from the service provider (program distributor). If you are subscribing to services from more than one service provider, you will need a Smart Card from each one, and may even need different CAMs (depending on the DVB Common Interface standard each uses). Since a Smart Card is connected to a single service provider, a limited range of channels will be available via it.

* Note : Without the CAM and the smart card, you can watch only Free-to-Air programs.

- Insert a CAM into a receiver's slot designed for it, and a Smart Card into the CAM.
- 2 The message 'CAM Initializing' will appear on the screen. <Figure 6.8.1>
- After the message 'CAM Initializing' has disappeared, you can select the channel that you want to watch.



<Figure 6.8.1>

2) The Status of the CAM

- You can access detailed information about the CAM using the (I) / (I) keys in the Main Menu to select 'Cl' and pressing (I). <Figure 6.8.2>
- Proceed with further instructions displayed on the screen to check more detailed information depending on the CAM in use.
- * Note : Further detailed information is not mentioned in this manual since the information depends on the CAM in use.



<Figure 6.8.2>

6.9 Conditional Access System

1) Card Initializing

To Enjoy CONAX CAS7 scrambled channels, you will need a Smart Card from the service provider (program distributor). If you are subscribing to services from more than one service provider, you will need a Smart Card from each one. Since a Smart Card is connected to a single service provider, a limited range of channels will be available via it.

- * Note : Without the Smart Card, you can watch only Free-To-Air programs.
- Insert the Smart Card into the receiver's slot designed for it.
- 2 The message 'Smart Card Initializing' will appear on the screen. <Figure 6.9.1>
- S After the message 'Smart Card Initializing' has disappeared, you will be able to watch the channels offered by the service provider.



<Figure 6.9.1>

6.9 Conditional Access System

2) The Status of the Smart Card

You can access detailed information about the Smart Card using the
 entry /
 entry keys
 in the Main Menu to select 'CA' and pressing
 entry . <Figure 6.9.2>

- Proceed with further instructions displayed on the screen to check more detailed information depending on the Smart Card in use.
- * Note : Further detailed information is not mentioned in this manual since the information depends on the Smart Card in use.



<Figure 6.9.2>

English

6.10 PVR

1) File List

- ► File Playback
- 1 Press 📵 to show the file list. Select the file you want to play back by using 🙉 / CH V OK
- 2 Press or . In the right side of screen, detailed information about the selected file will be displayed. (Recorded Date/Time, Used size, Total Size) <Figure 6.10.1>
- To see a full screen, press or once more. And then the following time-bar will appear. <Figure 6.10.2>



<Figure 6.10.1>



<Figure 6.10.2>

6.10 PVR

Edit Menu

You will be asked to enter a password whenever you try to enter it. Press 📼 . The popup menu for selection will appear<Figure 6.10.3>.

Select the item that you want to edit, and set its parameters as desired

- 1 Normal Mode : Press or on the file that you can see the preview of a selected file.
- **2** Lock Mode : Press or on the file that you want to lock/unlock.
- 3 Delete Mode : Press or on the file that you want to delete.
- **GROUP** : Select between. File Mode \leftrightarrow Dir Mode
- ADVANCE : Shows all sorted files. Select between, Sort by name ↔ Sort by time.
- * If you set 'Channel Lock' (refer to <Figure 6.2.4>security setting) to OFF, you will not be asked to enter a password even if the channel is locked.
- **4** Rename Mode : Press the **ox** button on the file that you want to rename.



<Figure 6.10.3>

6.10 PVR

3) Trick Mode

You can operate the trick mode while you are playing the recording files. These functions are available in playback mode or time-shift mode powerfully.

▶ PLAY

This button will display a time- banner. If you want to show the play list while playing the file by using igodot.

Timeshift (PAUSE in playback mode)

This button will pause the playing file until you play again with \bigcirc or \blacksquare . <Figure 6.10.4>

► ADVANCE

- If the time-shift mode is enabled, You can press 🔁 to jump the live program.
- If the playback mode is enabled, You can press 🕤 to stop the current playing file and then jumping the live program.

► FF(Fast Forward)

- When playing the file, you can press \mathbf{D} to adjusting the playing speed.<Figure 6.10.5>
- The speed will change to x2, x4, x8 and x32.



<Figure 6.10.4>



<Figure 6.10.5>





RWD(Rewind)

When playing the file, you can press 1 to adjusting the playing speed. <Figure 6.10.6> The speed will change to x2, x4, x8 and x32.

▶ Slow(1/2x, 1/4x)

When playing the file, you can press D to adjusting the playing speed. <Figure 6.10.7>



<Figure 6.10.6>

<Figure 6.10.7>

ero Hel

▶ Jump

- You can locate the control position to the desired position by using the ${f q}$ / ${f p}$.
- If you press this key continuosly, You can locate the control position to the desired position very quickly.

6.10 PVR

Bookmark

To mark a specific place in a file for later retrieval. <Figure 6.10.8>

- **RED** : Press this button and red small triangle cursor will be placed at that position. If you want to delete the bookmarked position, press a this button once more when red small triangle cursor appear.

- **GREEN :** Press this button and the current position will jump to the next bookmarked position and playback starts from this point.
- YELLOW : Press this button and the current position will jump to the pre-bookmarked position and playback starts from this point.
 - * Note : The maximum number of the bookmark is 20 in a file.



<Figure 6.10.8>

- BLUE : Press this button and edit(copy, cut) the file. <Figure 6.10.9> Press & button to select edit start position and one more & button to select edit end position. Select cut or copy. <Figure 6.10.10>



<Figure 6.10.9>



<Figure 6.10.10>

6.10 PVR



4) Instant Recording

- O You can record a current channel by using O. If you then press D, a time-banner will be displayed.<Figure 6.10.11>
- Press O once more. The following picture shows that you can select item when you record a current channel. <Figure 6.10.12>
 - Channel : It shows a current channel.
 - Name : It shows a current recording name.
- Duration : You can change the duration of recording time by using the a / . And current recorded time appear.





<Figure 6.10.11>

<Figure 6.10.12>

* Note : 1. Do not remove the USB device while recording a program.

5) Record Stop

- Press the STOP button on the remote to stop the recording then Record Stop will be displayed.
- **2** Select the recording file by OK / STOP button.
- S Press EXIT button then selected recording is stopped. <Figure 6.10.13>



<Figure 6.10.13>

6) Timer Recording

This function is available when usb device is connected. You can choose a channel to record the Program Guide menu by using **O**. (Refer to 6.4 Electric Program Guide, 2)Timer)

7) Time Shift

- If you want to pause and resume live TV channel, press **PAUSE** button. The default time of Time-Shift is 30 min in your STB.<Figure 6.10.14>
- 2 If you want to resume live TV channel, press PLAY button. <Figure 6.10.15>
- S The trick-mode operations are provided. If you want to jump to live channel, please press .



<Figure 6.10.14>



<Figure 6.10.15>

8) Media File Playback

Press (F1 key) button to display Media file list.

Press or button to play the selected file.

Troubleshooting

There may be various reasons for the abnormal operation of the unit. Therefore, if the unit does not work properly, check it according to the procedures shown in the table below:

Problem	Possible causes	Remedy
The LED light on the front panel does not light.	The AC power cord is disconnected.	Connect the power cord properly into the power socket.
No Picture or sound.	Wrong connection of the video/audio output to the TV input terminal.	Connect the two terminals correctly with RCA or RF cable(s), SCART or HDMI cable(s).
	Wrong connection of the satellite antenna cable.	Connect the antenna cable correctly.
	Wrong direction of the satellite antenna.	Adjust the direction of the antenna.
	No signal or weak signal.	Check the cable connections, the LNB and other equipment connected between the LNB and the receiver, or adjust the antenna
	Wrong setting of channel information in the MENU screen.	Type the setting values correctly.
Black-and-white screen or V-Hold.	Your TV mode (PAL/NTSC) is different from the satellite broadcasting mode.	Use a TV of the same mode.
		Connect a NTSC/PAL converter between the receiver and the TV.
The remote controller	Batteries are exhausted.	Change the batteries.
is not working.	Fluorescent light is interfering with the remote controller.	Switch off the light.
	Remote controller is incorrectly aimed.	Aim the remote control at the receiver.

Specifications

System capabilities	Fully DVB compliant	
satellite	Connector	IEC 169-24, female
LNB/Tuner input	Frequency range	950MHz ~ 2150MHz
	Signal level	-65dBm ~ -25dBm
	LNB supply	DC 13/18V, max 400mA
	LNB switch control	22KHz
	Di§EqC	Ver 1.0/1.1/1.2/USALS Compatible
Demodulator	Front end	DVB-S/S2 QPSK, 8PSK
	Symbol rate	DVB-S : 2~45Msps
		DVB-S2 : 10~30Msps(QPSK) 10~30Msps(8PSK)
	SCPC and MCPC Capable	
	Spectral inversion	Auto conversion
System resource	Processor	32bit processor (450MHz)
	DDR SDRAM	64Mbyte X 2
	FLASH	8Mbyte
	EEPROM	256Kbit
Video decoder	MPEG 2	MPEG-2, MPEG-4, H.264
	Data Rate	up to 15M bits/s
	Resolution	720 X 576P/i, 1280 X 720P, 1920 X 1080i/P
	Video format	PAL
	Aspec Ratio	4:3,16:9
Teletext	DVB compliant	
MPEG Audio	MPEG 1 layer I/II,	
	MPEG 2 layer II,	
	AC3 Dolby Digital	
	Туре	Mono, Stereo, Joint Stereo
	Sampling rates	32, 44.1 and 48 KHz
Serial data interface	Connector	9pin D-sub male, Max 115K bps

Remote control	Code NEC-IR		
	Operating condition	up to 7 Meter	
USB	USB Supply(Rear)	DC 5V Max 500mA	
Power supply	Power consumption	max 30W	
	Supply voltage	100V ~ 250V	
	Supply frequency	50Hz ~ 60Hz	
	Standby power consumption	max 1W	
Rear Panel	TV SCART	CVBS, RGB Video output	
connectors		Loop-through RGB output	
		Audio Out	
	VCR SCART	Video Out(CVBS)	
		Video In(CVBS, RGB)	
		Audio Out(L, R)	
	Video	1 X RCA cinch	
	Audio L/R	2 X RCA cinch	
	Component(Y/Pb/Pr)	3 X RCA cinch	
	Serial data	9pin D-sub	
	Digital tuner input	IEC 169 - 24	
	Loop-through Digital tuner	IEC 169 - 24	
	S/PDIF	Fiber Optic	
	HDMI	1 X HDMI	
	USB	USB A-type	
	LAN	RJ-45	
Physical	Size (W X H X D)	260 X 232 X 54(mm)	

-	3 ()	5
Specification	Weight (Net)	1.8 Kg
Physical	SIZE (W X H X D)	260 X 232 X 54(MM)



Disposal of 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 equipnent. 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.