

# Digital Satellite Receiver

Your Digital Partner for Life



**Technomate**

Your Digital Partner for Life

Technomate Ltd  
Unit 11 Nobel Road  
Edmonton  
London  
N18 3BH  
United Kingdom

Tel: +44 (0)20 8884 0701  
Fax: +44 (0)20 8884 0275  
www.technomate.com  
info@technomate.com  
tech@technomate.com

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## User's Manual

### TM-7102HD-T2 *Super*

TRIPLE TUNER HIGH DEFINITION PVR RECEIVER



TRIPLE TUNER HIGH DEFINITION PVR RECEIVER  
(2 X SATELLITE HD TUNERS & 1 X TERRESTRIAL TUNER)



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**TM-7102HD-T2 Super**

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## INTRODUCTION


### OVERVIEW

This satellite receiver is designed for using both free-to-air and encrypted channel reception. Enjoy the rich choice of more than 10,000 different channels, broadcasting a large range of culture, sports, cinema, news, events, etc. This receiver is a technical masterpiece, assembled with the highest qualified electronic parts.

### MAIN FEATURES

- ▶ High-Definition Personal Video Recorder (HD PVR)
- ▶ 2x DVB-S/DVB-S2 Satellite Tuners (MPEG-2, MPEG-4 & H.264)
- ▶ 1x DVB-T / DVB-T2 Terrestrial Tuner
- ▶ RF modulator (CH 21 - CH 69 PAL G, I, K, M)
- ▶ Output resolution : 576p & 576i, 720p, 1080p & 1080i
- ▶ 2 Smart Card Reader & 2 Common Interfaces (2CI)
- ▶ HDMI & Component Output (YPbPr) with Upscaler to Improve Picture Quality
- ▶ 10,000 TV & Radio Channels
- ▶ MP3 player and JPEG viewer via internal HDD or USB flash Drive (memory stick)
- ▶ Software & Channel List download via USB 2.0
- ▶ Fully Featured VFD text Front Panel Display
- ▶ Sensitive Tuner
- ▶ Support 4:2:0
- ▶ Less than 1 second channel change
- ▶ Dolby Digital Optical S / PDIF
- ▶ DiSEqC 1.0, 1.1, 1.2 & 1.3 (USALS) compatible
- ▶ Auto Navigation system select as many satellites as you want to search
- ▶ On-screen display with true full colour resolution
- ▶ Enhanced 16 Favourite channel groups
- ▶ Channel control by : Favourites, Lock, Skip, Move & Delete
- ▶ Channel sort by : All, Alphabet, Transponder & CAS
- ▶ Multilingual OSD Menu : English, Spanish, Portuguese, French, Dutch, German, Italian, Turkish, Arabic, Russian, Persian, Greek, Czech, Romanian
- ▶ Extended EPG and program reservation on EPG
- ▶ Teletext & Subtitle by OSD and VBI
- ▶ Last channel memory function
- ▶ Factory default channel list
- ▶ Various games
- ▶ Software & channel list upgrade via RS-232C : PC to STB, STB to PC, STB-STB and USB

- ▶ Parental, Installation & 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
  - ▶ 2 Scarts, (CVBS, RGB / Loop-through RGB) & S-Video
  - ▶ Supports up to 1TB S-ATA 3.5" & 2.5" Hard Disk Drives (HDD)
  - ▶ 2x USB 2.0 Ports: PVR function using external HDD, playback MP3, JPEG Photos & Software transfer
- Record:
1. Channel from each tuner and playback a recording at the same time
  2. Channels using the two satellite tuners (2 Channels have to be on the same Transponder TP)
  3. Channels and playback a recording or watch another live channel at the same time
- ▶ Lan 10/100Mbps Ethernet
  - ▶ Blind Search
  - ▶ Manufactured under license from Dolby Laboratories.


 **DOLBY** ▶ "Dolby" and the double-D Symbol are trademarks of Dolby Laboratories.  
**DIGITAL PLUS** ▶ 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.

**EASY INSTALLATION GUIDE****PART 1 Using the Preinstalled Satellite & Channel List**

This receiver is preinstalled with 25 Satellite and 1500 default Channels and is fully configured. No settings need to be changed.

After turning ON the receiver, select a language and Country. You will be taken to the Viewing mode. Press the **SAT** button on the Remote and select a satellite. To bring up the Channel List, press the **OK** button on the remote.

To delete unwanted Satellites-press the **MENU** button on the remote and go to Installation. Press **OK** and OK on Satellite Setup. Press OK again and a Satellite List will appear. To delete a Satellite, press the **BLUE** (  ) button on the remote.


**How to Motorise 25 Satellite & 1500 Channels with USALS in 60secs**

This receiver is preinstalled with 25 Satellite and 1500 default Channels, and is fully configured.No settings need to be changed.

Press the **MENU** button on the remote.Press **OK** on Installation. Go to Motorised Setting and press **OK**. Go to the Third line (DiSEqC Motor) and use the **Left/Right** arrow buttons on the remote to select **USALS**. Then go to Position Setting and press **OK**. Then go to Longitude and Latitude and enter the coordinates of where you live (London's Longitude is 000. 1 West; South of UK's Latitude is 51.5 North).Press the **EXIT** button on the remote. Go to **GOTO** and press **OK**. Wait until the Signal Quality is more than 40% in the progress bar. When a Satellite is found, then all the selected 25 Satellites are fully configured for a Motorised system.

If the Signal Quality is below 40%, then the settings are incorrect and the Longitude needs to be adjusted, for example: 000.2, 000.3, 000.4,5/6/7/8/9 **West** or **East**. The Latitude may also need to be adjusted. If you still have not got a signal, then the external installation (dish, etc) needs to be adjusted.

**How to Setup a DiSEqC 1.2 Motorised System**


Press the **MENU** button on the remote and go to Installation and press **OK**. Go to Motorised Setting and press **OK**. Press **OK** again to open the satellite list. Select a satellite from the list and press **OK**. Go to the Third line (DiSEqC Motor) and use the **Left/Right** buttons on the remote to select DiSEqC 1.2. Go to Move and press and hold the **Left/Right** buttons on the remote until you get a Signal Quality of more than 40%. Go to Save and press **OK**. Press the **RED** (  ) button on the remote to Scan. To scan extra satellites, repeat the above.

**PART 2 New Installation from start (NO Satellites/Channels)****How to do a Factory Reset to Delete the Preinstalled Satellites and Channels**

If you want to start the receiver without the preinstalled Satellites and Channels, press the **MENU** button on the remote and go to System Settings and press the **OK** button. Go to Factory Reset, press **OK** and enter 0000. Then select Factory Reset. Press **OK** and select Yes.


**How to Install a New Satellite (Fixed Non-Motorised System)**

Press the **MENU** button on the remote and press the **OK** button on Installation. Press **OK** on Satellite Setup and **OK** again to display a Satellite List. To add a Satellite, press the **YELLOW** (  ) button on the remote. Press the **EXIT** button on the remote to exit the list.

When the Quality Bar is at its highest level, press the **RED** (  ) button on the remote to Scan the Satellite. To view a channel, press the **OK** button in the Viewing Mode (clear screen) and select any channel. To view \$ (Scrambled) channels, a CAM (Decoder) and a viewing card are required.

**How to Setup a Monoblock or DiSEqC Switch (up to 4 LNBs / Dishes)**

Press the **MENU** button on the remote and press the **OK** button on Installation. Press **OK** on Satellite Setup and **OK** again to display a Satellite List. Select a Satellite (e.g. Hotbird 13E and Astra 19.2E) and press the **YELLOW** button on the remote for each Satellite to Save. Press the **EXIT** button on the remote to exit the list.

Go to DiSEqC Switching and select a Satellite (e.g. Hotbird 13E as Number 1 and Astra 19.2E as Number 2). When the Quality Bar is at its highest level for each Satellite, press the **RED** (  ) button on the remote to Scan. To view a channel, press the **OK** button in the Viewing Mode (clear screen) and select any channel. To view \$ (Scrambled) channels, a CAM (Decoder) and a viewing card are required.

If the above installation was not successful, change the DiSEqC Switching number, e.g. Hotbird 13E as Number 2 and Astra 19E as Number 1.


**How to Setup DiSEqC 1.2 Motorised System**

Press the **MENU** button on the remote and press the **OK** button on Installation. Press **OK** on Satellite Setup and **OK** again to display a Satellite List. Select a Satellite (e.g. Hotbird 13E and Astra 19.2E) and press the **YELLOW** button on the remote for each Satellite to Save. Press the **EXIT** button on the remote to exit the list.

Press the **EXIT** button again. Press **OK** on Motorised Setting. Press **OK** again to display a Satellite List. Select a Satellite and press **OK**. Go to the Third line (DiSEqC Motor) and use the **Left/Right** buttons on the remote to select **DiSEqC 1.2**. Go to Move and press and hold the **Left/Right** buttons on the remote until you get a Signal Quality of more than 40%. Go to Save and press **OK**. Press the **RED** button on the remote to Scan. Repeat the above for more satellites.

**How to Setup a USALS Motorised System**

Press the **MENU** button on the remote and press the **OK** button on Installation. Press **OK** on Satellite Setup and **OK** again to display a Satellite List. Select a Satellite (e.g. Hotbird 13E and Astra 19.2E) and press the **YELLOW** (  ) button on the remote for each Satellite to Save.

Press the **EXIT** button on the remote to exit the list. Press the **EXIT** button again. Go to Motorised Setting and press **OK**. Go to the Third line (DiSEqC Motor) and use the **Left/Right** arrow buttons on the remote to select **USALS**. Then go to Position Setting and press **OK**. Then go to Longitude and Latitude and enter the coordinates of where you live (London's Longitude is 000.1 West; South of UK's Latitude is 51.5 North). Press the **EXIT** button on the remote. Go to **GOTO** and press **OK**. Wait until the Signal Quality is more than 40% in the progress bar. Press the **RED** (  ) button on the remote to Scan.

If the Signal Quality is below 40%, then the settings are incorrect and the Longitude needs to be adjusted, for example : 000.2, 000.3, 000.4,5/6/7/8/9 **West** or **East**.

The Latitude may also need to be adjusted. If you still have not got a signal, then the external installation (dish, etc) needs to be adjusted.

### How to restore default channels

Press **MENU** button on the remote. Go to **Factory Reset**, Then go to **Restore default channels**.

Press **OK** button on the remote, and input password and wait.

It will retrieve default channels.

### Active Transponders

For Technomate Motorized Systems

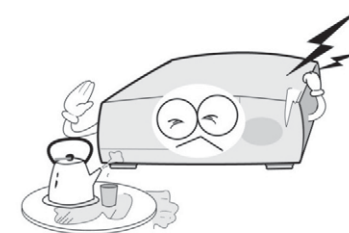
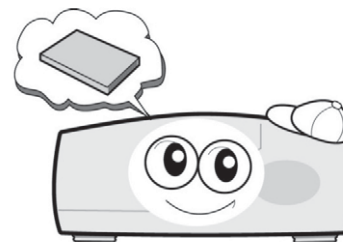
No.	Satellite Name	Degree	Frequency	Symbol Rate	Polarity
1	PAS 45 IR	45.0° W	11510	26694	H
2	TELESTAR 11	37.5° W	11494	19500	H
3	HISPASAT	30.0° W	11811	27500	H
4	NSS803-K	21.5° W	11605	40000	H
5	INTEL 901	18.0° W	11673	28571	H
6	TELESTAR 12	15.0° W	11124	18386	H
7	ATLANTIC B1	12.5° W	11132	03255	H
8	EXPRESS 3A	11.0° W	11464	04340	V
9	TELECOM 2D	8.0° W	12747	02894	H
10	NILESAT 101	7.0° W	11747	27500	V
11	ATLANTICBIRD 3	5.0° W	12543	27500	H
12	THOR 707 -2/3	1.0° W	11229	24500	H
13	SIRIUS 2	5.0° E	11766	27500	H
14	EUTEL W3	7.0° E	11263	27500	H
15	EUTEL W1	10.0° E	11526	30000	V
16	HOTBIRD	13.0° E	10892	27500	H
17	EUTEL W2	16.0° E	11304	30000	V
18	ASTRA 1	19.2° E	12692	22000	H
19	ASTRA 3A	23.5° E	11634	27500	H
20	ARABSAT 2A	26.0° E	11958	27500	H
21	ASTRA 2	28.2° E	11469	27500	H
22	EUTEL W4	36.0° E	12698	04340	H
23	HALLAS SAT	39.0° E	12524	29000	H
24	TURKSAT 1C	42.0° E	12652	22500	H
25	EUROSTAR 1	45.0° E	11500	04340	V



### SAFETY INFORMATION

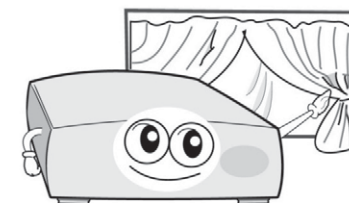
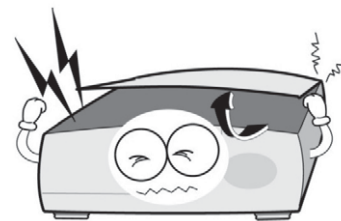
Be sure to read the user's manual before starting the operation of the unit.

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



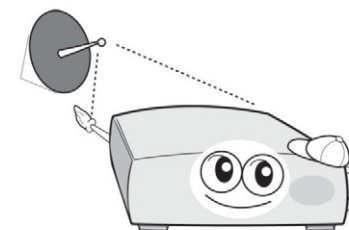
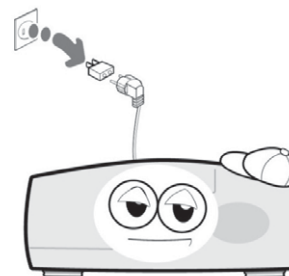
Never open the cover. It is very dangerous to touch the inside of the unit due to the possibility of an electric shock.

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

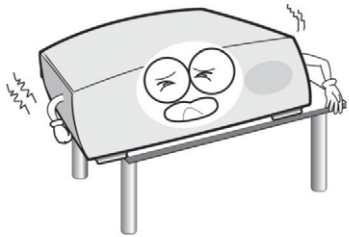


When you do not use this unit for a long time, make sure that the power cord is pulled out from the outlet. Also do not use a damaged power cord as it may cause fire or electric shock.

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



Place the unit horizontally. An uneven placement may cause the unit to be damaged.

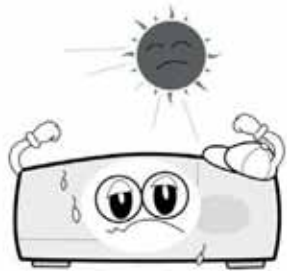


Do not leave the unit near water.



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.

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



Do not put water containing items such as vase 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.

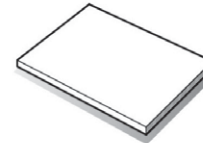


The disconnect device shall remain readily operable.

**CHECK POINTS BEFORE USE**

● **ACCESSORIES**

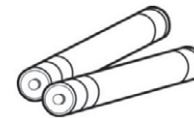
User's manual : 1



Remote control : 1



Batteries (AAA type) : 2



Power cord : 1



HDMI cable : 1



Warranty card : 1



If any accessories listed above are missing, contact the sales representative where you purchased this unit.

● **SATELLITE DISH**

Your dish should be properly installed and azimuth and elevation must be precisely set up. This unit is working with DiSEqC 1.2 on a compatible antenna positioner. Ask your dealer for more information.

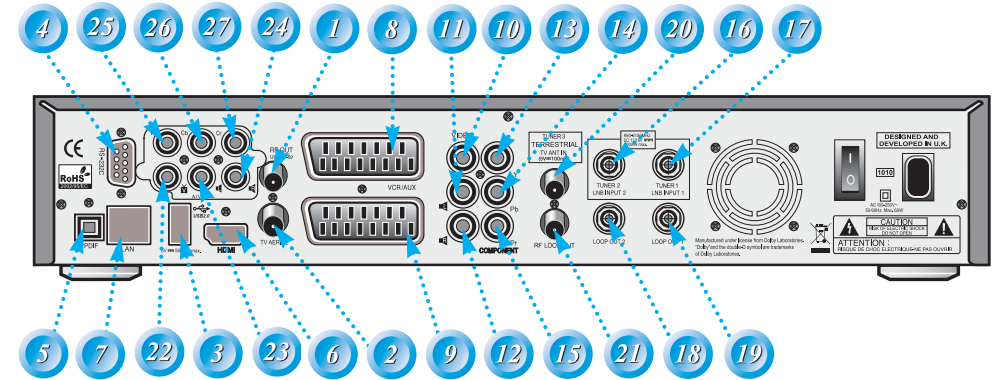
**CONTROLS/ FUNCTIONS**

● **FRONT PANEL**



- 1. Power :**  
To switch the receiver between "Standby" and "Power ON" modes.
- 2. Standby/Power Indicators :**  
Red in Standby mode and no light in Power-On mode.
- 3. Menu :**  
To enter or exit the Main Menu.
- 4. Select :**  
To open the Channel List in non-menu mode and to select/confirm an item in menu mode.
- 5-6. VOL(◀/▶) :**  
To change the volume level in non-menu mode and to modify a setting in menu mode.
- 7-8. CH(▲/▼) :**  
To change channels or to move Up/Down in the menus/application.
- 9. 2.5" & 3.5" S-ATA HDD(Max. 1TB)**

● **REAR PANEL**



No.	Name	Connector	Function
1	RF OUT UHF 21-69	IEC 169-2 MALE	Output to TV
2	TV ANT IN	IEC 169-2 FEMALE	Input from analog terrestrial antenna
3	USB	USB A-type	USB 2.0
4	RS-232C	DB-9	Low speed serial port
5	S/PDIF	Fiber Optic	Digital audio output (Optical)
6	HDMI	HDMI	Digital Video/Audio Output
7	LAN	RJ-45	10/100Mbps Ethernet
8	VCR/AUX SCART	SCART	CVBS Video Output CVBS, RGB Video Input Audio Output
9	TV SCART	SCART	CVBS, RGB Video Output, 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)
16	LNB INPUT2	IEC 169-24 FEMALE	IF input from LNB to digital tuner2
17	LNB INPUT1	IEC 169-24 FEMALE	IF input from LNB to digital tuner1
18	LNB OUTPUT2	IEC 169-24 FEMALE	IF loop-through output from digital tuner2
19	LNB OUTPUT1	IEC 169-24 FEMALE	IF loop-through output from digital tuner1
20	DVB-T IN	IEC 169-2 FEMALE	Cable signal input to digital tuner.
21	LOOP OUT	IEC 169-2 MALE	Loop-through output from digital tuner.
22	VIDEO(option)	RCA cinch	Composite video input
23	AUDIO(option)	RCA cinch	Left audio input
24	AUDIO(option)	RCA cinch	Right audio input
25	Y(option)	RCA cinch	Component video input (Y)
26	Cb(option)	RCA cinch	Component video input (Cb)
27	Cr(option)	RCA cinch	Component video input (Cr)

## ● REMOTE CONTROL



1. **POWER** : To turn the receiver On/Off.
2. **TV/RADIO** : To switch between TV and Radio modes.
3. **MUTE** : To turn the sound On/Off.
4. **TV/SAT** : To switch the TV output source between the satellite input and the UHF/VHF antenna input.
5. **MEDIA** : To access media file playback menu.
6. **SLEEP** : To adjust the Sleep Timer.
7. **PIP SWAP** : To swap the PIP picture and the main picture.
8. **PIP** : To activate the Picture in Picture function.
9. **PIP LIST** : To display the PIP list.
10. **EPG** : To show the TV/Radio program guide.
11. **SUBTITLE** : To show the subtitle contents if subtitle is transmitted.
12. **FAV** : To show favorite list in the favorite group or to move to the next page.
13. **A-Z** : To sort channel list.
14. **USB** : To show the usb menu.
15. **TEXT** : To show the teletext contents if teletext is transmitted. Used for special functions in menu mode.
16. **AUDIO** : To show Multi-language audio track, the stereo-mono mode and subtitle information. Used for special functions in menu mode.
17. **INFO** : To show information about the current program. Press twice to show detailed information.
18. **MENU** : To enter or exit the main menu.
19. **EXIT** : To exit from the present menu and to go to the previous menu.
- 20-21. **VOL UP & DOWN** : To change the volume level in non-menu mode.

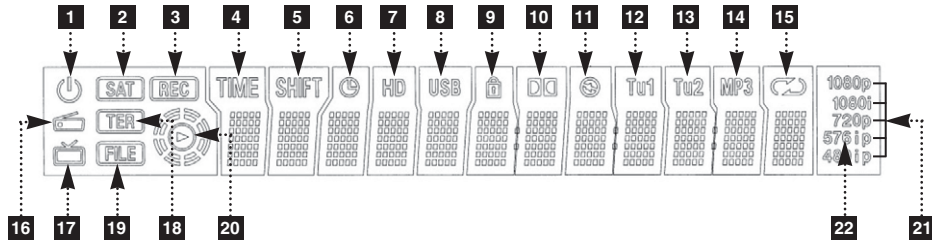
## ● REMOTE CONTROL



- 22-23. **UP & DOWN** : To change channels in non menu mode and move the cursor up/down in menu mode.
- 24-25. **LEFT & RIGHT** : To change the volume level in non-menu mode.
26. **OK** : To show the Channel List in non-menu mode and select an item or confirm in menu mode.
27. **SAT** : To show Satellite list.
28. **RECALL** : To go to the previous channel menu. Used for special functions in menu mode.
29. **FILELIST** : To display the filelist.
30. **PLAY** : Play Content.
31. **STOP** : Stop Playback.
32. **RWD** : Rewind a file / **Arrow UP** : To move to the previous page when many pages are available. (It is worked when in Menu List)
33. **PAUSE** : Pause playback.
34. **FWD** : Forward a file / **Arrow Down** : To move to the next page when many pages are available. (It is worked when in Menu List)
35. **ADVANCE** : Go to live channel.
36. **REC** : Start recording.
37. **SLOW** : Playback in slow mode.
38. **BOOKMARK** : Set the bookmark position.
39. **Color** : To control brightness, contrast color of a picture (when in **CVBS mode**).
40. **POS** : To show the DiSeqC motor view control.
41. **Color Key** : To use special functions in the menu.
42. **Numeric Keys (0 - 9)** : To enter numerical settings (such as channel numbers) directly.
43. **V.FORMAT** : To change video output's resolution.
44. **Wide** : To select a TV aspect ratio with Pan Scan or Letter-Box (4:3) (Full screen or Pillar box (16:9)).



FRONT DISPLAY

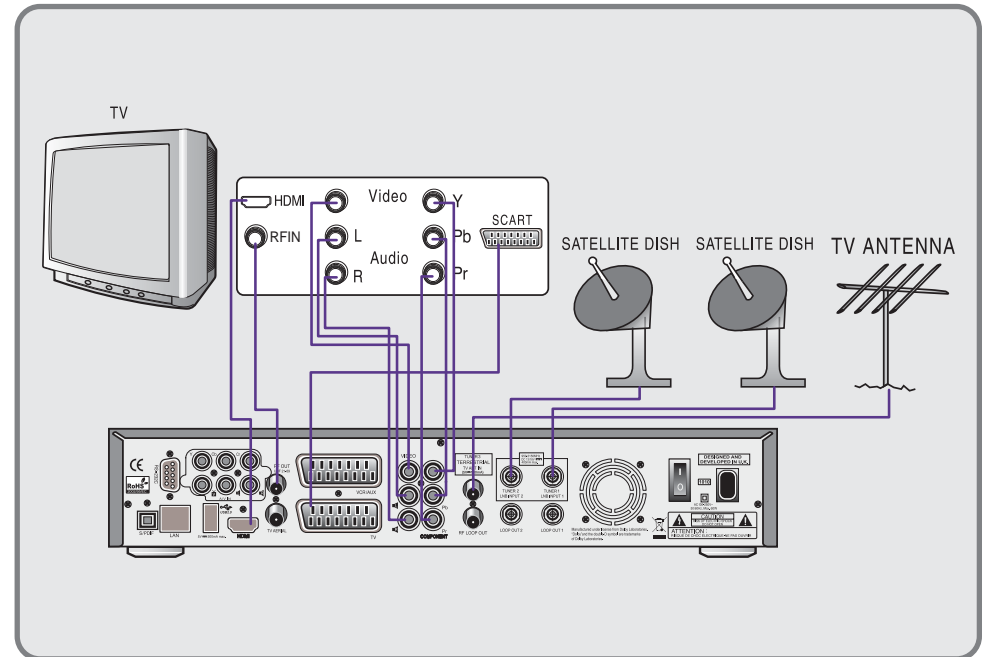


1		Power On/Off mode.
2		It is displayed when a Satellite signal is present.
3		It is displayed when a channel is recording.
4		It is displayed when Time-Shift mode is enabled.
5		It is displayed when Time-Shift mode is enabled.
6		It is displayed when a Timer is set (in Standby mode).
7		It is displayed when the channel is HD.
8		It is displayed when a USB device is connected.
9		It is displayed when a channel is locked.
10		It is displayed when a channel is broadcasted in Dolby Digital Audio.
11		It is displayed when the audio is muted.
12		Feature not supported.
13		Feature not supported.
14		It is displayed when the MP3 player is enabled.
15		It is displayed when Loop mode is selected in the MP3 player.
16		It is displayed when you are in Radio mode.
17		It is displayed when you are in TV mode.
18		It is displayed when a Terrestrial signal is present.
19		It is displayed when in Playback mode in File List.
20		It is displayed when during Playback.
21		Displays the video output's resolution.
22		It is displayed if the resolution Progressive or Interlaced.

EQUIPMENT CONNECTION

CONNECTION WITH ANTENNA / TV SET / A/V SYSTEM

1. Connect the TV antenna to TV ANT IN.
2. Connect the Video and Audio of TV to the Video and Audio. Connect Red and White connector to Audio R and Audio L, and Yellow into Video port respectively.
3. Connect the Component Video of your TV to Component Video of best quality. Connect the Y, Pb and Pr of your TV to Y, Pb and Pr respectively.
4. Connect your satellite dish.



\* Note : In some receivers TV scart is at the top or bottom of the rear of the receiver please follow the Writing of the TV then connect your scart cable for viewing.

● **3.5", 2.5" SATA HDD ASSEMBLY INSTRUCTION**

1. Turn off AC power.
2. Open the HDD SLOT cover.



3. Remove HDD Bracket .  
→ Push no.1 and pull no 2.

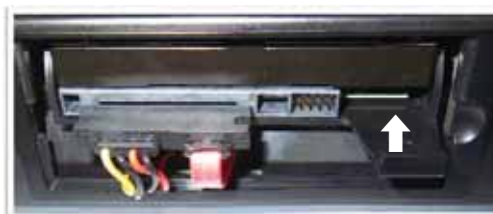


4. Screw & assemble HDD and HDD Bracket.



5. Assemble HDD Bracket at the HDD SLOT.

\* Note : For PVR Mode, Please go to Page 45



**OPERATION**

● **GETTING STARTED**

Turn your receiver power on and proceed with system setup as follows :

**Menu Language Setting**



1. Turn on your TV and receiver.
2. The language selection menu will be displayed, select a language and press the **OK** button on.

**Country**



1. Select a country and press the **OK** button on.

## Tuner Setup



1. Press the **MENU** button on the remote to display the main menu and go to Installation
2. Select **Tuner Connection**, the **Tuner Connection** menu will appear.
3. Select your Dish setup:  
Twin (using 2 satellite dishes or a Twin LNB or Single or Loopthrough)



## Satellite Setup



1. Press the **MENU** button on the remote to display the main menu.
2. Use **◀/▶** and **▲/▼** button on the remote to move in the menu.
3. Select **Satellite Setup**, the **Satellite Setup** menu will appear.
4. Select each menu you want to edit/change.
  - **Satellite** : Select any satellite by pressing **◀/▶** buttons on the remote.

- **Tuner** : Select **Tuner1 / Tuner2 / Both(Tuner1) / Both(Tuner2)**.
- **Transponder** : Select the Transponder.
- **LNB Power** : Select LNB Power **ON/OFF / 13V / 18V**.
- **LNB Type** : Select your LNB Type **Single / Universal / OCS**.
- **LNB Freq** : Select LNB oscillator frequency.



- **22KHz** : Select **ON/OFF** of 0/22 KHz.
  - **DiSEqC 1.0** : Select DiSEqC 1.0 Port.
  - **DiSEqC 1.1** : Select DiSEqC 1.1 Port.
5. **Scan** : Press **Red** ( ) button on the remote to begin satellite search.
  6. **Rename** : Press **Green** ( ) button on the remote to rename the selected satellite.
  7. **Auto Navigation** : Press **Green** ( ) button on the remote to begin auto navigation.
  8. **Save** : Press **Yellow** ( ) button on the remote to save the selected satellite.
  9. **Delete** : Press **Blue** ( ) button on the remote to de select the selected satellite.

## Motorized Setting



1. Press the **MENU** button on the remote to display the main menu.
2. Use the **◀/▶** and **▲/▼** buttons on the remote to move in the menu.
3. Select **Motorized Setting**, the **Motorized Setting** menu will appear.
4. Select each menu you want to edit / change.
  - **Satellite** : Select any satellite by pressing **◀/▶** buttons on the remote.

- **Tuner** : Select **Both(Tuner1) / Both(Tuner2)**.
- **Transponder** : Displays the current TP value of the selected satellite.
- **DiSEqC Motor** : Select DiSEqC Motor type **OFF/1.2/USALS**.
- **Save** : Press **OK** button on the remote to save.

5. **Scan** : Press **Red** ( ) button on the remote to begin satellite search.
6. **Auto Navigation** : Press **Green** ( ) button on the remote to begin auto navigation.

## DiSEqC 1.2 Setup



1. Select DiSEqC 1.2 on **DiSEqC Motor**, the DiSEqC 1.2 menu will appear.
  - **Satellite** : Select any satellite by pressing ◀/▶ buttons.
  - **Tuner** : Select **Both(Tuner1) / Both(Tuner2)**.
  - **Transponder** : Displays the current TP value of the selected satellite.
  - **DiSEqC Motor** : Selected DiSEqC 1.2
  - **Move** : Move the dish position to west/east by pressing ◀/▶ buttons.
  - **Move Fine** : Move the dish position 1 step at a time to west/east by pressing ◀/▶ buttons.
  - **Motor Control** : Control motor by press **OK** button on the remote.
  - **Recalculate** : 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.
- **Delete Limit** : Delete east and west limit.
- **Enable Limit** : Enable the saved east and west limit.
- **Set East Limit** : Edit & Save east limit by pressing ◀/▶ or **OK** buttons.
- **Set West Limit** : Edit & Save west limit by pressing ◀/▶ or **OK** buttons.
- **Go To** : Go to the position of the saved satellite.
- **Save** : Save the current setting of DiSEqC 1.2 system.

2. **Scan** : Press **Red** ( ) button on the remote to begin satellite search.
3. **Auto Navigation** : Press **Green** ( ) button on the remote to begin auto navigation.

## USALS System Setup



1. Select USALS on **DiSEqC Motor**, the **USALS** menu will appear.
  - **Satellite** : Select any satellite by pressing ◀/▶ buttons.
  - **Tuner** : Select **Both(Tuner1) / Both(Tuner2)**.
  - **Transponder** : Display the current TP value of the selected satellite.
  - **DiSEqC Motor** : Select DiSEqC Motor **USALS**.
  - **Move** : Move the dish position to West/East by pressing ◀/▶ buttons.
  - **Motor Control** : Control Motor by press **OK** button on the remote.
  - **Goto Reference** : Goto reference by pressing **OK** button.
  - **Delete Limit** : Delete limit by pressing **OK** button.
  - **Enable Limit** : Enable the saved east and west limit.
  - **Set East Limit** : Edit & Save east limit by pressing ◀/▶ or **OK** buttons.

- **Set West Limit** : Edit & Save west limit by pressing ◀/▶ or **OK** buttons.
- **Sat Degree** : Displays the current degree of the selected satellite.  
Edit degree by pressing ◀/▶ buttons and numeric buttons.
- **Goto Reference** : Move the dish to the 0 position.
- **Antenna Longitude** : Edit antenna longitude by pressing ◀/▶ buttons and numeric buttons.
- **Antenna Latitude** : Edit antenna latitude by pressing ◀/▶ buttons and numeric buttons.
- **Go To** : Save the current setting of USALS System.

2. **Scan** : Press **Red** ( ) button on the remote to begin satellite search.
3. **Auto Navigation** : Press **Green** ( ) button on the remote to begin auto navigation.

\* Note : When you change each parameter, you need to know exact parameter of the LNB to modify L.O(local oscillator) frequency.

## DiSEqC Motor View Control



1. Select **DiSEqC 1.2** or **USALS** in the **Motorized Setting** menu.
2. In the viewing mode, Press **POS** button on the remote to display **DiSEqC Motor View Control**.
3. Press **◀/▶** buttons on the remote to move **DiSEqC Motor** to get the best signal.

## Auto Navigation



All the available channels/satellites can be searched in this menu. Select the satellite and save before **Auto Search**.



1. Press the **MENU** button on the remote to display the main menu.
2. Use the **◀/▶** and **▲/▼** buttons to move in the menu.
3. Select **Auto Navigation, Auto Navigation** menu will appear.
4. Select the satellites you want to search by pressing the **OK** button on the remote.

You can select more satellites by pressing the **◀/▶** buttons and **OK** button on the remote.

- **Search Type** : Select the type of channel search you want by pressing **◀/▶** buttons on the remote.
- **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.
- **Network Search** : Select Network Search **ON/OFF** to find more transponders through NIT Search.


- **Scan** : Begin channel search of the selected satellite.

5. **Auto Navigation** : Press **Red** (  ) button on the remote.
6. **Auto Navigation Blind Search** : Press **Green** (  ) button on the remote and then begin Blind Search of the selected satellite.

*\* Note : Make sure that the signal level of the selected satellites is high by the signal quality bar. If the signal quality is lower than 50%, go back to satellite Setup and check LNB DiSEqC Switching, ect.*

## Blind Search



1. Select the satellites you want to search by pressing the button on the remote.
2. For **Polarization**, choose from ALL, V or H. For **Scan Mode** choose either Fast or Detail.
3. Press the **OK** button to start scanning.
4. **Auto Navigation Blind Search** : Press Red (  ) button on the remote and then begin Blind Search of all 'selected' satellite.

## Advance Search



To edit and search channels on newly launched satellites or not preprogrammed satellites in the list.

1. Press the **MENU** button to display the main menu.
2. Use **◀/▶** and **▲/▼** buttons to move in the menu.
3. Select **Advance Search**, the **Advance Search** menu will appear.
4. Select each menu you want to edit/ change.
  - **Satellite** : Select a satellite by pressing **◀/▶** buttons on the remote.
  - **Transponder** : Displays the current Transponder list of the selected satellite.
  - **Symbol Rate** : Displays the current symbol rate list of the selected transponder.
  - **Polarization** : Select **Horizontal/ Vertical**.
  - **Search Type** : Select **All Channel/ FTA Only/ TV Only**.
  - **Network Search** : Select **Network Search ON/OFF**.

5. **Scan** : Press **Red** ( ) button on the remote to begin satellite search.
6. **Add TP** : Press **Green** ( ) button on the remote to add new transponders by using numeric buttons **0-9** and **◀/▶** buttons on the remote.
7. **Delete TP** : Press **Yellow** ( ) button on the remote to delete transponders.

## Terrestrial Scan



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

### - Auto Scan

1. When the Quality is at its highest level, press the **YELLOW**( ) button on the remote control to start scanning for channels.

### - Manual Scan

1. Select the channel number or frequency that you want to search by using the **UP/DOWN** buttons on the remote control, manually enter a frequency.
2. For **Bandwidth**, choose either 7 MHz or 8MHz  
For **Search Type**, choose from : **All Channel**, **FTA Only** or **TV Only**.
3. For **Network Search**, select **ON** to find the most channels available. The Strength and Quality of the signal from the selected channel is shown by the **Level** and **Quality** indicators at the bottom of the screen.
4. **Antenna Supply 5V** : Select antenna booster power **ON / OFF**.
5. Press the **OK** button to start scanning.



## PID Search



Edit the information of the current transponder PID/Audio PID/PCR PID and search the satellite.

1. Press the **MENU** button on the remote to display the main menu.
2. Use **◀/▶** and **▲/▼** buttons on the remote to move in the menu.
3. Select **PID Search**, then the **PID Search** menu will be displayed.

- **Satellite** : Select a transponder which you want to search.

- **Transponder** : Displays the Transponders of the selected satellite.

- **Symbol Rate** : Displays the current symbol rate list of the selected transponder.

- **Polarization** : Select **Vertical/ Horizontal**.

- **Video PID / Audio PID / PCR PID** : Select and edit by using numeric buttons 0-9 and **◀/▶** buttons on the remote.

4. **Scan** : Press **Red** ( ) button on the remote to begin PID Search.
5. **Add TP** : Press **Green** ( ) button on the remote to edit transponder by using numeric buttons **0-9** and **◀/▶** buttons on the remote.
6. **Delete TP** : Press **Yellow** ( ) button on the remote to delete the selected transponder.

*\* Note : Setup is now completed. If you cannot see programme after finishing these procedures, please contact your local dealer.*

## Fast Scan



1. For Provider choose either Canal Digital or TV Vlaanderen.
2. For CHs Renumber select **ON/OFF**
3. Press the **Red**( ) button.





## Channel Selection



- ▶ If you know the channel number, enter the channel number by using numeric buttons on the remote and wait 2 seconds until the channel changes.
- ▶ If you know the channel name, press **OK** button on the remote, then the channel list will be displayed. Select the channel you want to watch by using **▲/▼**, **OK** buttons on the remote.

1. In the right side of screen, detailed information of the selected channel is displayed. (Satellite Name, TP and Channel Name)

2. You can navigate between channels with these buttons.

- **▲/▼** : Moves up/ down
- **◀/▶** or **⏪/⏩** : Moves page up / page down.
- **RED** (  ) : Displays all channels in current satellite.
- **GREEN** (  ) : Displays channels sorted by alphabetical order.
- **YELLOW** (  ) : Displays channels sorted by transponder.
- **BLUE** (  ) : Displays channels sorted by FTA/ FTA + Scrambled / CAS.

3. When the selection bar is positioned on the channel you want to see, press **OK** on the remote.

## Other Functions of the Remote Control

### ▶ Volume Control

1. While you are watching a program me, press **◀/▶** buttons on the remote to control volume.
2. Press the **MUTE** button to turn off the sound of the program me.  
Press **MUTE** button again to turn the sound On.

### ▶ Channel Information

Displays the information of a program me by pressing **INFO** button on the remote.

### ▶ 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 -> Mono-Left -> Mono-Right
- **Audio Track** : Select between tracks available in this program
- **Audio Level** : Select between, High -> Medium -> 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.

### ▶ SAT

Press the **SAT** button on the remote and select a satellite in the Satellite List.

### ▶ FAV

Press **FAV** button on the remote to display a favorite channel list into the favorite group.

### ▶ 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 satellite and / or favorite channel groups. Only registered satellites and favorite groups are displayed.

### ▶ Multi Picture Display

Press the **MOSAIC** button on the remote to display multi-picture mode.

You can select the numbers of multi-pictures.  
eg. 1x2, 2x2, 2x3, 3x3



► **ZOOM**

You can press to zoom in the video.

1. Press the **PAUSE** button and press **ZOOM** button You can zoom in sections of Freezed Video.
2. While watching a program, press. You can zoom in sections of playing video.
3. To cancel the freeze status, please release the zoom status.



► **SUBTITLE**

You can press select the subtitle language of current channel.

► **SLEEP**

You can set the receiver to turn off after a few minutes. Press the **SLEEP** button to set a Sleep timer.

- To cancel a Sleep Timer, press the **SLEEP** button until you set the time as "0 min". (Disable, 10, 20, 30, 60, 100, 120 Minutes)



► **V.FORMAT**

Press the **V.FORMAT** button to change the video resolution : 1080p > 1080i > 720p > 576p > 576i

► **WIDE**

Press the **WIDE** button to change the TV's Aspect Ratio :

- **4:3** : Pan-Scan or Letter-Box
- **16:9** : Full-Screen or Pillar-Box



► **COLOR Adjustment**

Press the **COLOR** button on the remote to select Color Adjustment menu.

By using the ◀/▶ buttons on the remote, you can adjust the brightness, contrast and the color of picture.



## SYSTEM SETTINGS

### Time Setting

This sub-menu allows you to set your local time, wake up time, wake up channel and sleep time.



- **GMT Usage** : If you turn it ON, local time is determined by adjusting the differences from GMT (Greenwich Meantime), according to your location.
- **Current Date** : If GMT Usage is ON, this date is determined by GMT. If GMT Usage is OFF, you can modify this by pressing the **OK** button on the remote. If you set OFF, the receiver doesn't refer to GMT. Local time is determined by adjusting current date and current time.
- **Current Time** : If GMT Usage is ON, this time is determined by GMT. If GMT Usage is OFF, you can modify this by pressing any **NUMERIC** button.
- **Local Offset** : If GMT Usage is ON, the Local time is GMT time + Local Offset.
- **Summer Time** : Select the period during which Summer Time is in force.
- **Wake Up Mode** : You can set the cycle of the wake up mode **Off/Once/Daily**.
- **Wake Up Time** : You can set wake up time by pressing any **NUMERIC** button.
- **Wake Up Channel** : You can set wake up channel by pressing the **OK** button on the remote.
- **Sleep Mode** : You can set the cycle of the sleep mode : **Off/Once/Daily**.
- **Sleep Time** : You can set a sleep time by pressing any **NUMERIC** button.
- **Automatic Standby** : Selects auto standby time (OFF/After 1~8Hour) After making your selection press (OK key) to confirm
- **Timer Lead Time** : Press (OK key) to set the Timer Lead In And Lead Out Time.

### Advance Search

This submenu allows you to specify the audio/video output setting.



- **Audio Language** : Set the default audio language when selecting a channel.
- **Subtitle Language** : Set the default subtitle language.
- **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)
- **RF Type** : Select among supported PAL standards.(PAL B/G, PAL I, PAL D/K).
- **RF Channel** : Set the RF channel to which to display the audio and video signals on your TV set (21 to 69); if you select 40, they will be displayed at channel 40 on your TV set.
- **Video Format** : Select the Scanning type (Interlaced, Progressive)
- **Digital Audio** : Select the Audio output type (Dolby SPDIF / PCM / DOLBY HDMI)
- **Radio Backpicture** : Set the radio backpicture to On/Off

### OSD Setting



This sub-menu allows you to set the menu language, OSD transparency, Information and volume timeout.

- **Menu Language** : Select the desired language of the menu.
- **Transparency** : Select OSD transparency of the menu. (1%~100%)
- **Information Timeout** : Select the display duration of the information banner **1 sec / 2 sec / 3 sec / 5 sec / 10 sec**.
- **Volume Timeout** : Select the display duration of the volume box **1 sec / 2 sec / 3 sec / 5 sec / 10 sec**.
- **Moving Display Message** : Turn the DiSeqC moving message **ON/OFF**.
- **Use Recall list** : Store previous channels. If you press recall key on RCU then you will show recall list.

### Front Display Setting



This sub-menu allows you to set the blue light & text moving on the front display window.

- **Blue Light** : Turn the blue light ON/OFF.
- **Text Moving** : Turn the text moving ON/OFF.
- **Channel Number** : Turn the channel number ON/OFF.
- **Standby Mode** : Select the standby Mode. (Normal / Power Saving)

## Password Setting



This sub-menu allows you to change the password option to access or lock menu entry and to change password.

- **Receiver Lock** : If you turn it ON, you will be asked to enter PIN code when power on.
- **Remote / Ch / Install Lock** : If you turn it ON, you will be asked to enter PIN code when you go to Installation/Edit Channels and When you use Function keys on the remote.
- **Lock Channel Confirm** : If you turn it ON, you will be asked to enter PIN code when you switch to a locked channel.
- **Age Limit** : Prevents children or unauthorized people from watching the specific programs.  
(Free / 8 above / 12 above / 15 above / 18 above)
- **Current Password** : Enter current password to change password.
- **New Password** : Enter the new password you want to change.



- **Verify Password** : Enter new password to confirm.

\* *Note : The default password is 0000.*

## Factory Reset



This sub-menu allows you to restore the factory setting if the users encounters a problem after changing any settings.

- **Delete Radio Channels** : Erase all radio channels.
- **Delete Scramble Channels** : Erase all scramble channels.
- **Delete All Channels** : Erase all channels and restore default setting.
- **Factory Reset** : Erase all channels and restore factory default setting.



- **Save As Default Channel** : Change the factory channels.
- **Restore Default Channels** : Restores 25 satellites and approx 1,500 channels pre-tuned.

## 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).

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



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

## Data Transfer

This sub-menu allows you to transfer the software of a receiver to another receiver.

- **Firmware** : Transfer the firmware of a receiver to another receiver.
- **Games** : Transfer the game data of a receiver to another receiver.
- **All** : Transfer all data (Firmware + Channel Data + Games) to another receiver.




## EDIT CHANNELS

### Set Favorites

This sub-menu allows you to set up favorite name and favorite lists.

You can choose TV or Radio channels by pressing the **TV/RADIO** button. Supports is for 16 favorite groups.

1. Press the **MENU** button on the remote to display the main menu.
2. Use **◀/▶** and **▲/▼** button on the remote to move in the menu.
3. Select **Set Favorites, Select Favorite Group** will appear.
4. Select a favorite group by pressing the **◀/▶** and **OK** buttons on the remote. The TV/Radio channel list will appear.  
If you want to edit the favorite group name, press the **RED** (  ) button on the remote. A virtual keyboard will appear.

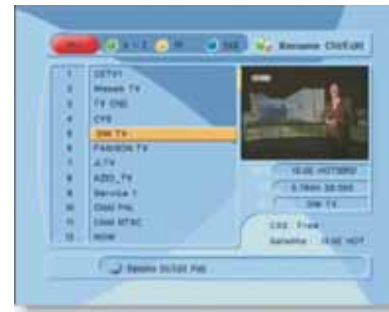


5. Set favorite channels by pressing the **◀/▶** and **OK** buttons on the remote. The selected channels will have a heart symbol on the right.

Press the **OK** button on the remote again to remove the channel from a favorite group.

6. Press the **EXIT** button on the remote to return to the previous menu.

### Rename CH / Edit PIDs



This sub-menu allows you to rename the channels and input user PID.

You can switch between TV or Radio channels by pressing the **TV/RADIO** button on the remote.

1. Select **Rename CH / Edit Pids**, the **Rename CH / Edit PIDs** menu will appear.
2. Press the **OK** button on the channel that you want to edit.
3. Press the **OK** button on Edit Name to rename a channel. A virtual keyboard will appear. Rename a channel by using the **◀/▶**, **▲/▼** and **OK** buttons on the remote. Press the **EXIT** button on the remote to exit.
4. You can edit a PID by using **NUMERIC** buttons on the remote.

*\* Note : The VIDEO PID, AUDIO PID and PCR PID are very important for optimal satellite signal reception.*



## Move Channels



This sub-menu allows you to move a channel in the list.

You can switch between TV or Radio channels by pressing the **TV/RADIO** button.

1. Press the **OK** button on **Move Channels**, the **Move Channels** menu will appear.
2. Press the **OK** button to select the channel that you want to move, then arrow buttons will appear.

3. Use any **NUMERIC** buttons on the remote to move the selected channel or press **▲/▼**, **OK** buttons to move a channel.
4. Press the **EXIT** button on the remote to return to the previous menu.

## Lock Channels



This sub-menu allows you to lock channels. Once the channel is locked, every time you want to watch the channel, you will have to enter the password.

*\* Note : If you set Lock Channel Confirm OFF, you will not be asked to enter a password even if a channel is locked.*

1. Press the **OK** button on **Lock Channels**, the **Lock Channels** menu will appear.
2. Press the **OK** button to select the channel that you want to lock. A lock symbol will appear next to the channel's name.

3. Press the **OK** button again to unlock a channel. The lock symbol will disappear.
4. Press the **EXIT** button on the remote to return to the previous menu.

## Skip Channels

This sub-menu allows you to skip channels.

Once a channel is skipped, every time you try to change the channel using **◀/▶** in the viewing mode, this channel will be skipped.

*\* Note : If you try to change the channel using NUMERIC button in viewing mode, you can watch this channel.*

1. Press the **OK** button on **Skip Channels**, the **Skip Channels** menu will appear.
2. Press the **OK** button on the remote to select the channel that you want to skip. A skip symbol will appear.
3. Press the **OK** button on the remote again to cancel skip. The skip symbol will disappear.
4. Press the **EXIT** button on the remote to return to the previous menu.



## Delete Channels

This sub-menu allows you to delete channels.

*\* Note : If you delete a channel, you cannot watch this channel until you do a channel search again.*



1. Press the **OK** button on **Delete Channels**, the **Delete Channels** menu will appear.
2. Press the **OK** button to select the channel that you want to delete. A symbol will appear.
3. Press the **OK** button again to cancel delete. The delete symbol will disappear.
4. Press the **INFO** button to delete all channels in the current list. You will be asked to enter a password.

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

## Add Channels



1. Select the satellite and save in the Satellite setup before Add Channels.
  - **Satellite** : Select a transponder which you want to search.
  - **Transponder** : Display the Transponders of the selected satellite.
  - **Channel Name** : Press OK button on the Channel Name that you want to edit.
  - **Channel Type** : Select TV/Radio.

- **Video PID/Audio PID/PCR PID** : Select and edit by using numeric buttons 0-9 and **◀/▶** buttons on the remote.
- **Video Type** : Select video type **MPEG1/2 / H.264**.
- **Audio Type** : Select audio type **MPEG1/2 / HE-AAC / AC3 / MPEG4 / AAC / DD+**.

2. Press **Yellow** () buttons on the remote to add channel.

## AV In



This function allows you to view external device output.

- **AV Input** : On/Off to add or delete a AV IN Channel. If you select ON then you will see AV IN Channel in channel list.
- **Input Select** : Select the video input type. (CVBS or YPbPr)

## EPG (ELECTRONIC PROGRAMME GUIDE)

### EPG (Electronic Programme Guide)

This sub-menu allows you to view the electronic programme guide (if available).

1. Press the **EPG** button on the remote, the **EPG** menu will appear.
2. Press the **◀/▶** to go to the previous/next **EPG**.
3. Press the **◀/▶** or **⊕/⊖** buttons to change the channel.
4. Press the **OK** button on right side of screen (Program List) and the selected program will be reserved (**Record OFF**) in the **Timer** menu. Repeat for more programs.
5. Press the **REC** button on right side of screen (Program List) and the selected program will be reserved (**Record ON**) in the **Timer** menu. Repeat for more programs.
6. Press the **TV/Radio** button on the remote to view **TV/RADIO** channel list.
7. Press the **SAT/FAV** button on the remote to view the **SAT/FAV** list.
8. Press the **RED** () button on the remote, the **Timer** menu will appear.
9. Press the **INFO** () button on the remote to EPG mode switching.



### Timer

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

1. Press the **RED** () button in the **EPG** menu, the **Timer** menu will appear.
2. Press the **▲/▼** buttons to move to other menus.
3. Press the **◀/▶** buttons to change the selection.
  - **Timer No. 1-8** : Select the timer that you want to modify.
  - **State** : Select the timer : **Off/Once/Daily/Weekly**.
  - **Date** : Press the **OK** button to select the date. A virtual calendar will appear.
  - **Start Time** : Enter the time by using the **NUMERIC** buttons on the remote for your receiver to turn On.
  - **End Time** : Enter the time by using the **NUMERIC** buttons on the remote for your receiver to turn OFF.



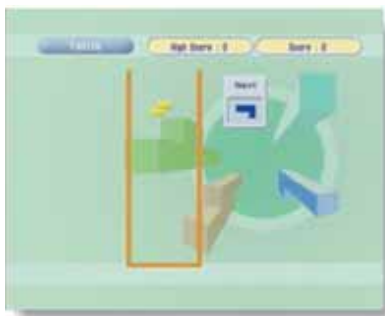
- **Channel** : To view the channel list, press **OK** button on the remote.
- If you want to record a program in the right side of the screen, you can select a program by using **OK** button. The selected program will be reserved.
- Record : Select the record **ON / OFF**.
- You can also see change the timer menu.

## GAMES

### Tetris



1. Press the **OK** button on **Tetris**, the game will load.
2. Select a skill by using the **▲/▼** buttons on the remote.
3. Press the **OK** button to start a game or press the **EXIT** button to return to the previous menu.
4. Press the **OK** button to rotate the block.
5. Press the **◀/▶** buttons to move the block.
6. Press the **▼** button to drop the block.
7. In the top right window, you can see the next block.
8. Press the **EXIT** button to quit a game.




### Sokoban

To play Sokoban, you have to push the balls into their correct positions. The balls can only be pushed, not pulled. You have to be careful not to push them into a corner where you cannot get them out again. You can only push one ball at a time.

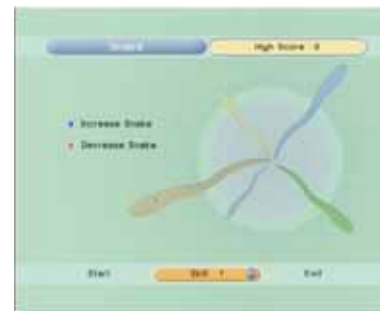
1. Press the **OK** button on **Sokoban**, the Game will load.
2. Select a skill by using the **▲/▼** buttons on the remote.



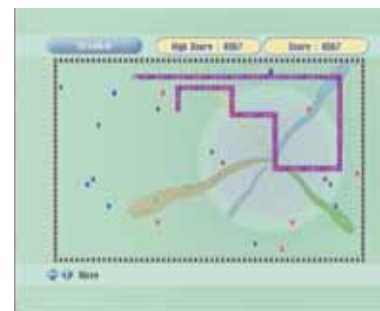
3. Press the **OK** button to start a game or press the **EXIT** button to return to the previous menu.
4. Press the **▲/▼** or **◀/▶** buttons to move.
5. Press the **RED** (  ) button to undo previous move. You can only undo a step once at a time.
6. Press the **GREEN** (  ) button to restart the game.
7. Press the **YELLOW** (  ) / **BLUE** (  ) buttons to jump to the previous / next level. You can jump between completed levels.
8. Press the **EXIT** button to quit a game.



### Snake




1. Press the **OK** button on **Snake**, the game will load.
2. You can select a skill using the **▲/▼** buttons on the remote.
3. Press the **OK** button to start a game or press the **EXIT** button the remote to return to the previous menu.
4. Press the **▲/▼** or **◀/▶** buttons to move.
5. If the snake takes **BLUE** blocks on the screen, the length will increase.
6. If the snake takes **RED** blocks on the screen, the length will decrease.
7. If the snake takes **BLACK** blocks, the game will end.
8. Press the **EXIT** button to quit a game.



### Calculator



This submenu allows you to use a calculator on the screen.

- 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 **◀/▶** and **▲/▼** buttons on the remote control unit.


### USB Menu

This sub-menu allows you to playback MP3(music) and JPEG(picture) files and to download software and channel list by connecting your USB memory stick(USB flash drive) to the USB port in the receiver.

### MP3 Menu

1. Select the MP3 file that you want to listen to by using the **▲/▼**, **OK** buttons in the file list. Press the **OK** button select a file.
2. Press the **EXIT** button to hide the file list.  
You can then select an option using **◀/▶**, **OK** buttons.
3. Use the **VOL+/VOL-** buttons to adjust the volume.
4. Press the **OK** button on **LIST**. The MP3 file list will be displayed.
5. Press the **OK** button on **INFO**.







- The MP3 file information will be displayed.
- **FILELIST** : Open/Close the MP3 file list.
- **INFO** : Displays MP3 file information.
- **YELLOW** (  ) : Choose:Hard Disk or USB device.

### JPEG Menu




1. Use the **▲/▼** buttons to select a picture.
2. Press the **OK** button to display the picture.

- **RED** (  ) : Set the time interval between slides (slideshow)
- **GREEN** (  ) : Slideshow
- **YELLOW** (  ) : Choose:Hard Disk or USB device
- **FILELIST** : Open/Close the JPEG file list
- **BLUE** (  ) : Rotate the picture.

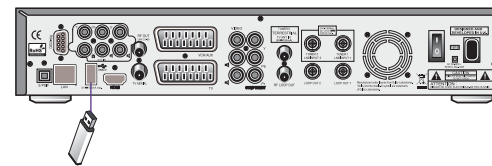
### Data Transfer Menu (How to download Software from USB)



1. Select the software or channel list you want to download by using the **▲/▼** buttons in the list.
2. Press **OK** button to start the software download.

- **YELLOW** (  ) : Choose:Hard Disk or USB device
- **RED** : Upload the current CNDF(compressed dish and channel data file).

*\* Warning : Do not turn off your receiver whilst downloading.*



### Management

- **Default Disk** : Set the DVR disk.
- **Disk Information** : Choose:Hard Disk or USB device. You can view the information of the USB device (used size, total size, free size).
- **Check Disk** : Choose:Hard Disk or USB device. You can check the USB device.
- **Format Disk** : Formats the USB device or HDD.



- **Testing USB Speed** : USB speed test.
- **Timeshift Rec Time** : You can change default timeshift recording time.
- **Auto Timeshift** : Set automatic timeshift On/Off.
- **HDD Sleep Time** : HDD is change sleep mode after selected time.

● **SYSTEM INFORMATION**

You can check the current information about your receiver, such as the receiver model name, software version, hardware version, manufacturing date, etc.

*\* Note : This information is necessary when you want to download a new software or you need to repair the receiver.*



● **COMMON INTERFACE**

**CAM Initializing**



To watch scrambled channels, you will need a Conditional Access Module (CAM) and Smart card which is specific to that CAM from the service provider (broadcaster).

*\* Note : Without a CAM and a smart card, you can watch only Free-toAir programmes.*

1. Insert a CAM into a CAM slot in the receiver and a Smart card the CAM.
2. The message : **CAM Initializing** will appear.

**Status of the CAM**

1. Go to **Common Interface**. Press **OK** on the CAM to see further information of the CAM.
2. Proceed with further instructions displayed on the screen, then you can check further details depending on the CAM in use.

*\* Note : Further detailed information is not mentioned in this manual since the information depends on the type of CAM.*



● **CONDITIONAL ACCESS SYSTEM**

**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.*

1. Insert the Smart Card into the receiver's slot designed for it.
2. The message '**Smart Card Initializing**' will appear on the screen.
3. After the message '**Smart Card Initializing**' has disappeared, you will be able to watch the channels offered by the service provider.



## The Status of the Smart Card



1. You can access detailed information about the Smart Card using the / keys in the Main Menu to select 'CA' and pressing ▲/▼.
2. Proceed with further instructions displayed on the screen to check more detailed information depending on the Smart Card in use.

\* Note : Futher detailed information is not mentioned in this manual since the information depends on the Smart Card in use.

## ● PVR Mode via Internal HDD or USB

### File List



#### ► File Playback

1. Press the **FILELIST** button to open the file list. Select the file you want to playback by using **UP/DOWN & OK** buttons.
2. Press the **OK** button. On the left side of screen, detailed information about the selected file will be displayed. (Recorded Date/Time, Used size, Total Size)  
- For Full Screen, press the **OK** button once more and then following time-bar will appear.



#### ► Edit Menu



Enter the password. Press the **YELLOW** button. A popup menu will appear. Select the file that you want to edit, and set its parameters as desired.

1. Normal Mode : Press the **OK** button on file that you want to see a preview.
  2. Lock Mode : Press the **OK** button on the file that you want to lock/unlock.
  3. Delete Mode : Press the **OK** button on the file that you want to delete.
  4. Rename Mode : Press the **OK** button on the file that you want to rename.
    - **RED** : Choose from : File Mode <-> Dir Mode
    - **GREEN** : Displays all sorted files. Choose from : Sort by name <-> Sort by time
- \* If you set 'Channel Lock' to OFF (refer to <Figure 6.2.4> security setting), you will not be asked to enter a password, even if the channel is locked.

### Trick Mode



You can operate the Trick Mode while you are playing the files. This function is available in Playback mode and Time-Shift mode.

#### ► PLAYBACK

This button will display a time-banner. If you want to open the playlist while playing the file, press the **PLAY** button on the remote. In This Mode, press the **INFO** button to show the trick-operation.

#### ► PAUSE

This button will pause the file until you playback again (press the **PLAY** button or **PAUSE** button to resume watching).

#### ► ADVANCE

If Time-Shift mode is enabled, press the **ADVANCE** button to go to the real time live broadcast.

### ► FF (Fast Forward)

When playing the file, press the **FF** button to forward the program (adjust the playing speed).

- Choose from : x2, x4 and x8, x8 and x32



### ► RWD (Rewind)

When playing the file, press the **RWD** button to rewind the program (adjust the playing speed).

- Choose from : x2, x4 and x8, x8 and x32

### ► Slow (1/2x, 1/4x)

When playing the file, press the **SLOW** button to slow the speed of the playback (adjust the playing speed)



### ► Jump

- Go to a desired position of the file by using the **LEFT/RIGHT** buttons.
- If you press this key continuously, you can go to the desired position faster.

### ► Bookmark

To create a bookmark/chapter at a specific time/place of the file.

- **RED** : Press the **RED** button and a red triangle will appear at that position.

If you want to delete the bookmarked position, press the RED button once more and the red triangle will disappear.

- **GREEN** : Press the **GREEN** button to go/jump to the previous bookmark position. Playback will start from this point.

- **YELLOW** : Press the **YELLOW** button to return to the next bookmark position. Playback will start from this point.

\* Note : The maximum number of bookmarks is 20 for each file.

### ► File Edit

- **BLUE** : Press this button and edit(copy, cut) the file.

Press (OK key) button to select edit start position and one more (OK key) button to selectedit end position. Select cut or copy.



## Instant Recording

1. You can record the current channel you are watching instantly by using **REC** button.  
If you then press the **PLAY** button, a time-banner will be displayed.
2. Press the **REC** button once more. The following picture shows that you can select an item when you record the current channel.

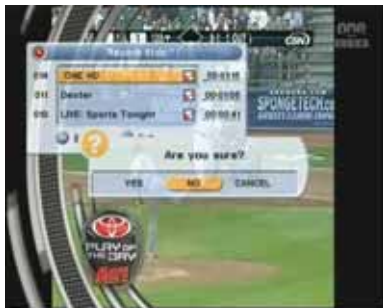


- **Channel** : Displays the current channel
- **Name** : Displays the current recording name
- **Duration** : You can change the duration of a recording's time by using the **LEFT / RIGHT** button. Current recorded time will appear.

\* Note1 : **DO NOT REMOVE** the USB device while recording a program.

\* Note2 : You can't change to another channel while recording a program.

## Record Stop



1. 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.
3. Press **EXIT** button then selected recording is stopped.

## Timer Recording

This function is available when a USB device is connected. You can choose a channel to record from the EPG Guide by using the **REC** button.  
(Refer to 6.4 EPG, 2) Timer)

## Divx Play

Press (f1 key) button to display divx file list.  
Press (OK key) button to play the selected file.

## Time Shift

1. To pause and resume live TV channel, press the **PASUSE** button. The default time for Time-Shift is 30 minutes.
2. To resume live TV channel, press the **PLAY** button.
3. The trick-mode operations are available. To return to the live broadcast, press the **ADVANCE** button.



● **PIP**

**Start, Stop, Change PIP screen size**

Press (pip key) on the remote to start PIP and "Sub Channel List" will displayed.  
 Select the channel using (OK key)  
 Press Exit to hide Sub Channel List.  
 Press (pip key) on the remote to change small PIP screen size.  
 Press (pip key) on the remote to stop PIP.

**Sub channel list**

Press (pip channel list key) on the remote to display Sub Channel List.  
 Press (exit key) on the remote to hide Sub Channel List.

**Swap to Channel**



Press (swap key) on the remote to swap main with sub channel.

**HOW TO DOWNLOAD SOFTWARE FROM PC TO RECEIVER**

1. Connect the null model cable to the RS-232C connection on the back of the receiver and to your PC.
2. Download the latest version of the TM Loader from the Technomate web site ([www.technomate.com](http://www.technomate.com)).
3. Download the latest software (.STB) of your receiver. Ensure that the model number of the software is the same as the receiver you have.
4. Click on **Browse** in the TM Loader.
5. Select the file from where you saved it when you downloaded it from the Technomate website.
6. Turn ON the satellite receiver.
7. Click on **Connect** on TM Loader and then click **Start** to begin the software download.
8. The downloading status is displayed.
9. Once it displays 100% Finished (wait until it has completed erasing), the software download has finished.
10. When it completes the writing of the new software, disconnect the cable between the receiver and the PC. A Factory Reset is required.
11. Go to System Information on the main menu and make sure that you have correct software version.



**Note. How to download / upload Channels**

If you want to download / upload Channels, Click on **Channels** in the TM loader, then select Download / Upload.

\* Downloading Channels PC to TM-7100HD Series.

1. Click on **Download**, and then Click on **Browse** in the TM Loader.
2. Select the file from where you saved it.
3. Turn on the satellite receiver.
4. Click on **Connect** in the TM Loader and then click on **Start** to begin downloading Channels PC to TM-7100HD Series.
5. Once it displays 100% finished, the Channel downloading has finished.

\* Downloading Channels TM-7100HD Series to PC.

1. Click on **Upload**, and then Click on **Browse** in the TM Loader.
2. Select the file and folder where you want to save in your PC.
3. Turn on the satellite receiver.
4. Click on **Connect** in the TM Loader and then click on **Start** to begin uploading Channels TM-7100HD to PC.
5. Once it displays 100% finished, the Channel uploading has finished...

\* You can upload / download default channels maximum 1,500 TV & Radio channels.

If you want to add more than 1,500 channels, you will have to do a channel search/scan.



**TROUBLE SHOOTING**

There may be various reasons for the abnormal operation of a set-top box. If it does not work properly, check if according to the procedures shown in the table below.

Problem	Possible Causes	Suggested Remedy
<b>LED on front panel does not turn ON</b>	A/C power cord disconnected.	Connect power cord properly into the power socket.
<b>No picture or sound</b>	Wrong connection of the video/audio output to TV input terminal.	Connect power cord properly into the power socket.
	Wrong connection of satellite dish/antenna cable.	Connect the dish/antenna cable correctly.
	Satellite dish/antenna is aimed in the wrong direction.	Check the cable connections, LNB and other equipment connected between the LNB and the receiver or adjust the dish/antenna.
	No signal or weak signal. Wrong setting of channel information in MENU screen.	As above. Type the setting value correctly.
<b>Black-and-white screen or V-Hold</b>	Your TV mode is different from satellite broadcasting mode.	Use TV of the same mode. Use the NITSC/PAL converter connected to a receiver and a TV.
<b>Remote controller does not work</b>	Battery exhausted.	Change the batteries.
	Fluorescent light interfering with the remote controller.	Switch off the light.
	Remote controller is incorrectly aimed.	Aim the remote control at the receiver.
	Remote type is not properly selected.	Go to password and press 0000 then go to the bottom of page and change the remote type to type 1 or type 2.

## Questions & Answers

### The receiver is on but I cannot get any Menu on the screen?

- A**
- 1) Check if the scart is connected,
  - 2) Check the A/V settings on your television is correct,
  - 3) Scart cable could be faulty there fore replace of in doubt.

### I get the message 'no signal' displayed?

- A**
- 1) Check if the LNB cable is inserted into the IF INPUT,
  - 2) Check if the LNB setup menu is correctly set.
  - 3) Your satellite Dish may be out of alignment or your LNB may be is faulty.
  - 4) Go to Easy installatin guide and start fresh,
  - 5) Contact your dealer / installer.

### I cannot access a particular channel I require?

- A** You need to check the following :
- 1) Check if you a correct transponder.  
Go to advance search, Turn on the Network Search, press red button to tune.
  - 2) Make sure you have correct PID numbers.  
b) if above dose not help go to  
[www.lyngsat.com](http://www.lyngsat.com)  
[www.kingofsat.net/en/prefs.php](http://www.kingofsat.net/en/prefs.php)  
Please contact your Supplier for further assistance.

### How can I find out what software version I have?

- A** Press Menu on the remote, Go to system information press ok, Full information is displayed.

### I have lost my personal Lock Code setting, what do I do?

- A** For security reason, please contact your dealer.

## SPECIFICATIONS

<b>System capabilities</b>	Fully DVB compliant	
<b>satellite</b>	Connector	IEC 169-24, female
<b>LNB/Tuner input</b>	Frequency range	950MHz ~ 2150MHz
	Signal level	-65dBm ~ -25dBm
	LNB supply	DC 13/18V, max 400mA
	LNB switch control	22KHz
	DiSEqC	Ver 1.0/1.1/1.2/USALS Compatible
<b>Demodulator</b>	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	
<b>TERRESTRIAL System capabilities Tuner &amp; Channel Decoder</b>	Input connector	IEC 169-2, Female
	Loop-through out	IEC 169-2, Male
	Frequency range	149 ~ 426 MHz, 434 ~ 858 MHz
	Input impedance	75 Ohms Nominal
	Signal level	7,8MHz(-78dBm~-25dBm) switchable by software
	IF Bandwidth	7,8MHz
	Waveform	OFDM(DVB-T, DVB-T2)
	Carrier Mode	DVB-T : 2k, 8k / DVB-T2 : 1k, 2k, 4k, 8k, 16k, 32k
	Code Rate	DVB-T : 1/2, 2/3, 3/4, 5/6, 7/8
		DVB-T2 : 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
	Guard Interval	DVB-T : 1/4, 1/8, 1/16, 1/32
		DVB-T2 : 1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128
	<b>System resource</b>	Processor
DDR SDRAM		128Mbyte X 2
FLASH		8Mbyte
EEPROM		256Kbit
<b>Video decoder</b>	MPEG 2	MPEG-2, MPEG-4, H.264
	Data Rate	up to 15M bits/s
	Resolution	1920 X 1080p/i, 1280 X 720p, 720 X 576p/i
	Video format	PAL
	Aspec Ratio	4:3,16:9
<b>Teletext</b>	DVB compliant	
<b>MPEG Audio</b>	MPEG 1 layer 1 & 2	
	Type	Mono, Stereo, Joint Stereo
	Sampling rates	32, 44.1 and 48 KHz
<b>Serial data interface</b>	Connector	9pin D-sub male, Max 115K bps

# User's Manual

Remote control	Code	NEC-IR
	Operating condition	up to 7 Meter
USB	USB Supply(Front/Rear)	DC 5V Max 500mA
Power supply	Power consumption	max 60W
	Supply voltage	AC 100V ~ 250V
	Supply frequency	50Hz ~ 60Hz
Rear Panel connectors	TV SCART	CVBS, RGB Video output, Loop-through RGB output Audio Out
	VCR SCART	Video Output(CVBS) Video Input(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 X 2	IEC 169 - 24
	Loop-through Digital tuner X 2	IEC 169 - 24
	Terrestrial ant input	IEC 169 - 2
	Terrestrial ant output	IEC 169 - 2
	RF modulator input	IEC 169 - 2
	RF modulator output	IEC 169 - 2
	S/PDIF	Fiber Optic
	HDMI	1 X HDMI
	USB	USB A-type
	LAN	RJ-45
	Option	Video input
Audio L/R input		2 X RCA cinch
Component input(Y/Pb/Pr)		3 X RCA cinch
Physical Specification	Size (W X H X D)	390 X 73 X 283(mm)
	Weight (Net)	3.5Kg



**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 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.

## TM-7102HD-T2 *Super*

TRIPLE TUNER HIGH DEFINITION PVR RECEIVER



TRIPLE TUNER HIGH DEFINITION PVR RECEIVER  
(2 X SATELLITE HD TUNERS & 1 X TERRESTRIAL TUNER)





## INTRODUCTION

Nous vous remercions de nous avoir fait confiance pour l'acquisition de votre Terminal Numérique. Nous espérons qu'il vous donnera entière satisfaction durant de nombreuses années.

Ce produit étant un appareil de haute technologie, il est nécessaire d'en prendre soin et de respecter les consignes élémentaires de sécurité que nous vous communiquons ci-dessous.



## CONSIGNES ELEMENTAIRES DE SECURITE

- ▶ Avant de commencer toute opération, bien lire le manuel.
- ▶ Ne pas toucher le câble d'alimentation avec les mains humides, il pourrait causer un choc électrique.
- ▶ Ne jamais ouvrir le récepteur. Ne pas toucher l'intérieur du récepteur, ceci peut causer un choc électrique.
- ▶ Laisser libres tous les orifices de ventilation du récepteur.
- ▶ Ne surchargez pas une prise murale, un cordon prolongateur ou un adaptateur car cela pourrait entraîner un incendie ou un choc électrique.
- ▶ L'installation par un personnel qualifié est recommandée. Si la réception est interrompue, contactez votre centre de service local.
- ▶ Installez le récepteur horizontalement. Une installation non conforme peut endommager le système.
- ▶ Ne pas déposer un objet lourd comme une télévision sur le récepteur. Cela peut endommager le récepteur.
- ▶ Le récepteur ne doit pas être exposé à des gouttes ou à des éclaboussures.
- ▶ Aucun objet contenant du liquide, comme une vase, ne doit être placé sur l'appareil.



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**CONSIGNES ELEMENTAIRES DE SECURITE** 59



**POINTS DE CONTRÔLE AVANT L'EMPLOI** 61



**CONTRÔLES/FUNCTIONS** 62



**EQUIPMENT CONNEXION** 66



**OPERATION** 66



**EN CAS DE PROBLEME** 77



- ▶ Ne pas installer le récepteur :
  - A un endroit sujet à des vibrations.
  - A la lumière du soleil directe.
  - A l'humidité.
  - A une température trop haute ou trop basse.
  - ou il n'y a aucune ventilation.
  
- ▶ Déplacer le récepteur d'un endroit chaud à un endroit froid provoquera de la condensation. N'allumez pas le récepteur durant une ou deux heures, jusqu'à qu'il soit complètement sec.


**POINTS DE CONTRÔLE AVANT L'EMPLOI**

- **Accessoires**

- ▶ Manuel d'utilisation
- ▶ Télécommande
- ▶ Piles (type AAA)
- ▶ HDMI câble

Si certains accessoires énumérés ci-dessus sont perdus, entrez en contact avec votre représentant afin d'en obtenir de nouveaux.

- **Antenne parabolique**

Votre antenne devrait être installée et orientée correctement et l'élévation doit être ajustée avec précision.

Ce récepteur est conçu pour être compatible avec DiSEqC 1.2.

Demandez à votre revendeur pour plus d'informations.



*TM*  
Your Digital Partner for Life

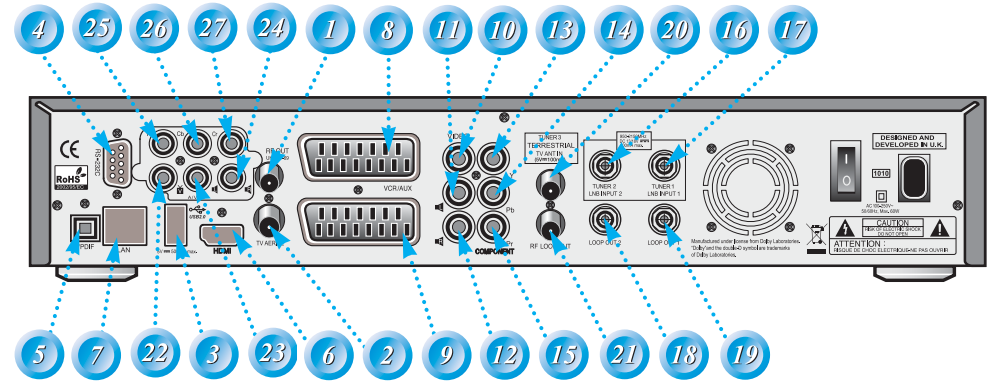
**CONTRÔLES/FUNCTIONS**

● **Panneau Frontal**



- 1. Power :**  
To switch the receiver between "Standby" and "Power ON" modes.
- 2. Standby/Power Indicators :**  
Red in Standby mode and no light in Power-On mode.
- 3. Menu :**  
To enter or exit the Main Menu.
- 4. Select :**  
To open the Channel List in non-menu mode and to select/confirm an item in menu mode.
- 5-6. VOL(◀/▶) :**  
To change the volume level in non-menu mode and to modify a setting in menu mode.
- 7-8. CH(▲/▼) :**  
To change channels or to move Up/Down in the menus/application.
- 9. 2.5" & 3.5" S-ATA HDD(Max. 1TB)**

● **Panneau Arrière**



No.	Name	Connector	Function
1	RF OUT UHF 21-69	IEC 169-2 MALE	Output to TV
2	TV ANT IN	IEC 169-2 FEMALE	Input from analog terrestrial antenna
3	USB	USB A-type	USB 2.0
4	RS-232C	DB-9	Low speed serial port
5	S/PDIF	Fiber Optic	Digital audio output (Optical)
6	HDMI	HDMI	Digital Video/Audio Output
7	LAN	RJ-45	10/100Mbps Ethernet
8	VCR/AUX SCART	SCART	CVBS Video Output CVBS, RGB Video Input Audio Output
9	TV SCART	SCART	CVBS, RGB Video Output, 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)
16	LNB INPUT2	IEC 169-24 FEMALE	IF input from LNB to digital tuner2
17	LNB INPUT1	IEC 169-24 FEMALE	IF input from LNB to digital tuner1
18	LNB OUTPUT2	IEC 169-24 FEMALE	IF loop-through output from digital tuner2
19	LNB OUTPUT1	IEC 169-24 FEMALE	IF loop-through output from digital tuner1
20	DVB-T IN	IEC 169-2 FEMALE	Cable signal input to digital tuner.
21	LOOP OUT	IEC 169-2 MALE	Loop-through output from digital tuner.
22	VIDEO(option)	RCA cinch	Composite video input
23	AUDIO(option)	RCA cinch	Left audio input
24	AUDIO(option)	RCA cinch	Right audio input
25	Y(option)	RCA cinch	Component video input (Y)
26	Cb(option)	RCA cinch	Component video input (Cb)
27	Cr(option)	RCA cinch	Component video input (Cr)

● Télécommande



1. **POWER** : To turn the receiver On/Off.
2. **TV/RADIO** : To switch between TV and Radio modes.
3. **MUTE** : To turn the sound On/Off.
4. **TV/SAT** : To switch the TV output source between the satellite input and the UHF/VHF antenna input.
5. **MEDIA** : To access media file playback menu.
6. **SLEEP** : To adjust the Sleep Timer.
7. **PIP SWAP** : To swap the PIP picture and the main picture.
8. **PIP** : To activate the Picture in Picture function.
9. **PIP LIST** : To display the PIP list.
10. **EPG** : To show the TV/Radio program guide.
11. **SUBTITLE** : To show the subtitle contents if subtitle is transmitted.
12. **FAV** : To show favorite list in the favorite group or to move to the next page.
13. **A-Z** : To sort channel list.
14. **USB** : To show the usb menu.
15. **TEXT** : To show the teletext contents if teletext is transmitted. Used for special functions in menu mode.
16. **AUDIO** : To show Multi-language audio track, the stereo-mono mode and subtitle information. Used for special functions in menu mode.
17. **INFO** : To show information about the current program. Press twice to show detailed information.
18. **MENU** : To enter or exit the main menu.
19. **EXIT** : To exit from the present menu and to go to the previous menu.
- 20-21. **VOL UP & DOWN** : To change the volume level in non-menu mode.

● Télécommande



- 22-23. **UP & DOWN** : To change channels in non menu mode and move the cursor up/down in menu mode.
- 24-25. **LEFT & RIGHT** : To change the volume level in non-menu mode.
26. **OK** : To show the Channel List in non-menu mode and select an item or confirm in menu mode.
27. **SAT** : To show Satellite list.
28. **RECALL** : To go to the previous channel menu. Used for special functions in menu mode.
29. **FILELIST** : To display the filelist.
30. **PLAY** : Play Content.
31. **STOP** : Stop Playback.
32. **RWD** : Rewind a file / **Arrow UP** : To move to the previous page when many pages are available. (It is worked when in Menu List)
33. **PAUSE** : Pause playback.
34. **FWD** : Forward a file / **Arrow Down** : To move to the next page when many pages are available. (It is worked when in Menu List).
35. **ADVANCE** : Go to live channel.
36. **REC** : Start recording.
37. **SLOW** : Playback in slow mode.
38. **BOOKMARK** : Set the bookmark position.
39. **Color** : To control brightness, contrast color of a picture (when in **CVBS mode**).
40. **POS** : To show the DiSeqC motor view control.
41. **Color Key** : To use special functions in the menu.
42. **Numeric Keys (0 - 9)** : To enter numerical settings (such as channel numbers) directly.
43. **V.FORMAT** : To change video output's resolution.
44. **Wide** : To select a TV aspect ratio with Pan Scan or Letter-Box (4:3) (Full screen or Pillar box (16:9)).



## EQUIPMENT CONNEXION

### ● Raccordement avec le système A/V / antenne / TV set

1. Raccordez TV ant IN de l'appareil à l'antenne TV.
2. Raccordez vidéo et Audio de l'appareil au TV et Vidéo de la TV.  
Raccordez le connecteur rouge et blanc à audio R et audio L, et le jaune dans le port vidéo respectivement.
3. Raccordez votre antenne satellite.



## OPERATION

### ● Démarrage

Démarrez le récepteur en appuyant sur Power et procédez à l'installation du système comme suit :

### Installation du menu langue

1. Allumez votre récepteur et TV.
2. Le menu langage apparaît.  
Sélectionnez la langue et appuyez sur la touche OK de la télécommande pour procéder.

### Installation Satellite

1. Appuyez sur la touche menu de la télécommande pour faire apparaître le menu.
2. Utilisez les touches ◀/▶ et ▲/▼ de la télécommande pour se déplacer dans le menu.
3. Sélectionnez Satellite Setup = installation satellite, alors le menu installation satellite s'affichera à l'écran.

### Installation Satellite

4. Sélectionnez chaque menu que vous voulez éditer / changer.
  - **Satellite** : Sélectionnez le satellite souhaité à l'aide des touches ◀/▶ de la télécommande.
  - **Tuner** :
  - **Transpondeur** :
  - **LNB Power** : A l'aide des touches sélectionnez sur ON/OFF / 13V/18V.
  - **LNB Type** : Sélectionnez votre type de LNB sur soit Single/Universal/OCS.
  - **22KHz** : Sélectionnez sur ON/OFF ou 0/22 KHz.
  - **DiSEqC 1.0** :
  - **DiSEqC 1.1** :
5. **Scan** : Appuyez sur la touche rouge de la télécommande pour commencer les recherches satellite.
6. **Rename=renommer** : Appuyez sur la touche verte de la télécommande pour renommer le satellite sélectionné.
7. **Save=sauvegarder** : Appuyez sur la touche jaune de la télécommande pour sauvegarder.
8. **Delete=supprimer** : Appuyez sur la touche bleue de la télécommande pour supprimer le satellite sélectionné.

### Installation motorisée

Appuyez sur la touche MENU de la télécommande pour afficher le menu principal.

1. Appuyez sur la touche MENU de la télécommande pour afficher le menu principal.
2. Utilisez les touches ◀/▶ et ▲/▼ de la télécommande pour déplacer dans le menu.
3. Sélectionnez installation motorisée, la fenêtre suivante apparaîtra.
4. Sélectionnez chaque menu que vous voulez éditer ou changer.
  - **Tuner** :
  - **Satellite** : Sélectionnez le satellite souhaité à l'aide des touches ◀/▶ de la télécommande.
  - **Transpondeur** : Montre la valeur courante de transpondeur du satellite choisi.
  - **DiSEqC Motor** : A l'aide des touches, sélectionnez OFF 1.2 USALS.
  - **Save=sauvegarder** : Appuyez sur la touche OK de la télécommande pour sauvegarder.
5. Appuyez sur la touche rouge de la télécommande pour commencer les recherches.
6. Appuyez sur la touche verte de la télécommande pour renommer les satellites.

## Recherche avancée

1. Appuyez sur la touche menu pour faire apparaître le menu principal.
2. Utilisez les touches ◀/▶ et ▲/▼ pour sélectionner dans le menu.
3. Sélectionnez recherche avancée, ensuite la fenêtre suivante apparaîtra.

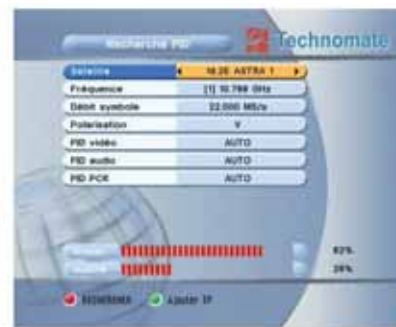


4. Sélectionnez chaque menu que vous voulez éditer ou changer.

- **Satellite** : A l'aide des touches ◀/▶ de la télécommande sélectionnez le satellite souhaité.
- **Transpondeur** : Montre la liste courante de transpondeur du satellite choisi.
- **Symbole rate** : Montre la liste courante de symbole rate du satellite choisi.
- **Polarisation** : Sélectionnez Horizontal ou Verticale.
- **Type de recherche** : Sélectionnez toutes les chaînes ou seulement FTA ou seulement TV.
- **Recherche Network** : Sélectionnez Network recherche sur ON ou OFF.

5. **Scan** : Appuyez sur la touche rouge de la télécommande pour commencer les recherches satellite.
6. **Add TP** : Appuyez sur la touche «verte» de la télécommande pour ajouter un nouveau transpondeur à l'aide des touches numériques 0-9 et les touches ◀/▶ de la télécommande.
7. **Delete TP** : Appuyez sur la touche jaune de la télécommande pour supprimer le transpondeur.

## Recherche PID



1. Appuyez sur la touche MENU de la télécommande pour afficher le menu principal.
2. Utilisez les touches de la télécommande pour déplacer dans le menu.
3. Sélectionnez PID recherche, ensuite la fenêtre suivante apparaîtra.

- **Satellite** : sélectionnez un transpondeur dans lequel vous souhaitez faire des recherches.
- **Transpondeur** : il montre le transpondeur d'un satellite sélectionné.
- **Symbol Rate** : il montre la liste courante de symbole rate du satellite choisi.
- **Polarisation** : Sélectionnez Vertical ou Horizontal.
- **Video PID / Audio PID / PCR PID** : sélectionnez et éditez à l'aide des touches numériques 0-9 de la télécommande.
- **Add TP** : appuyez sur la touche verte de la télécommande pour éditer le transpondeur à l'aide des touches numériques 0-9 et des touches ◀/▶ de la télécommande.
- **Delete TP** : appuyez sur la touche jaune de la télécommande pour supprimer le transpondeur sélectionné.

## Sélection de programme

Vous pouvez changer le programme courant par un autre programme.

- ▶ Dans le cas où vous voulez sélectionner une chaîne au hasard sans savoir le nom de celle-ci, vous pouvez naviguer entre les chaînes jusqu'à ce que vous trouviez ce que vous souhaitez.
- ▶ Si vous connaissez le numéro de chaîne souhaitée, entrez le numéro et attendez 2 secondes jusqu'à ce que la chaîne change.
- ▶ Si vous connaissez le nom de la chaîne souhaitée, appuyez sur OK et la liste de chaîne apparaîtra.



1. Dans l'écran droit, l'information détaillée de la chaîne sélectionnée apparaîtra.
2. Vous pouvez naviguer entre les chaînes avec ces touches:
  - ▲/▼ : Déplacer vers le haut et vers le bas
  - ◀/▶ : Déplacer de page en page
  - **Rouge** : Affichera toutes les chaînes
  - **Vert** : Affichera toutes les sortes de chaînes par ordre alphabétique
  - **Jaune** : Affichera toutes les chaînes par transpondeur
  - **Bleu** : Affichera
3. Lorsque la chaîne souhaitée est sur surbrillance, appuyez sur OK pour confirmer.

## Autre Fonction de ra télécommande

### ▶ Contrôle du volume

1. Lorsque vous regardez un programme, à l'aide des touches ◀/▶ vous pouvez contrôler le volume.
2. Lorsque c'est nécessaire, appuyez sur la touche Mute pour couper le son. Appuyez à nouveau sur la touche mute pour remettre le son.

### ▶ Information

L'information à propos d'un programme apparaîtra en utilisant la touche INFO de la télécommande.

## • EDIT CHANNELS

### Installation des chaînes favorites

Ce sous-menu vous permet d'installer le nom préféré et les listes préférées comme vous le souhaitez.

En utilisant la touche TV/Radio, vous pouvez alterner entre les modes TV et Radio. Il soutient 8 groupes favoris.

1. Appuyez sur la touche OK de pour installation favorite, ensuite « select Favorite Group » = « sélection de groupe favoris » apparaîtra.
2. Sélectionnez un groupe favoris en utilisant les touches ◀/▶ et OK de la télécommande, la liste de chaînes TV Radio apparaîtra. Si vous voluez changer le nom du groupe favoris, appuyez sur la touche Rouge et le tableau s'affichera.
3. Réglez les chaînes préférées en utilisant les touches ◀/▶ et OK de la télécommande Appuyez à nouveau sur la touche OK de la télécommande pour enlever le groupes favoris.
4. Appuyez sur la touche Exit de la télécommande pour retourner au menu principal.



### Renommer ch / edit pids

Se sous-menu vous permet de renommer les chaînes et entrer l'utilisateur PID. En utilisant la touche TV/Radio, vous pouvez alterner entre les modes TV/Radil. Vous pouvez changer la liste de chaîne en utilisant les touches SAT/FAV de la télécommande.



1. Appuyez sur la touche OK pour renommer Ch/Edit Peds, le menu suivant apparaîtra.
2. Appuyez sur la touche OK pour la chaîne que vous voulez éditer.
3. Appuyez sur la touche OK pour renommer une chaîne, le tableau suivant s'affichera. Renommer une chaîne en utilisant les touches ▲/▼ et ◀/▶, OK de la télécommande. Appuyez sur la touche Exit de la télécommande pour quitter.
4. Vous pouvez éditer en utilisant les touches numériques de télécommande.

### Déplacer les chaînes

Vous pouvez changer la liste de chaînes en utilisant If touche GROUP.



1. Appuyez sur OK pour déplacer les chaînes. Le menu suivant apparaîtra.
2. Appuyez sur OK pour sélectionnez la chaîne que vous voulez changer.
3. Appuyez sur les touches numériques pour déplacer la chaîne sélectionnée ou appuyez sur les touches ▲/▼, OK pour déplacer une chaîne.
4. Appuyez sur la touche Exit de la télécommande pour retourner au menu précédent.

## Chaîne verrouillée

Ce sous-menu vous permet de verrouiller les chaînes. Une fois que la chaîne est verrouillée, lorsque vous essayez de la regarder ; vous devez entrer le mot de passe. En utilisant les touches TV/Radil vous pouvez alterner entre les modes TV ou Radio. En utilisant les touches SAT/FAV vous pouvez changer la liste de chaîne.

*\* Note : si vous placez sur OFF la chaîne qui est verrouillée, alors vous ne devez plus entrer le mot de pass même si une chaîne est verrouillée.*

1. Appuyez sur la touche OK pour la chaîne verrouillée. Le menu suivant apparaîtra.
2. Appuyez sur la touche OK pour sélectionner la chaîne que vous voulez verrouiller. L'icône «verrouillé» s'affichera.
3. Appuyez à nouveau sur la touche OK pour déverrouiller une chaîne. L'icône «verrouillé» disparaîtra.
4. Appuyez sur la touche Exit = quitter de la télécommande pour revenir au menu précédent.



## Suppression de chaînes

Ce sous-menu vous permet de supprimer les chaînes. En utilisant les touches TV/Radio, vous pouvez alterner entre les TV/Radio. Vous pouvez changer le groupe de liste de chaîne à l'aide de la touche GROUP.

*\* Note : Attention! Si vous supprimez une chaîne, vous ne pourrez la regarder que si vous la recherchez à nouveau.*



1. Appuyez sur OK pour «Suppression de chaîne». Le menu suivant s'affichera.
2. Appuyez sur la touche OK pour sélectionner la chaîne que vous souhaitez supprimer. L'icône «suppression» s'affichera.
3. Appuyez à nouveau sur la touche OK pour confirmer. L'icône «suppression» disparaîtra.
4. Appuyez sur la touche INFO pour supprimer toutes les chaînes de la liste courante. Vous serez invité à entrer le mot de passe.
5. Appuyez sur la touche Exit = Quitter pour revenir au menu précédent.



## • EPG (Electronic Program Guide)

### EPG (le guide électronique des programmes)

Ce sous-menu vous permet de visualiser le guide électronique des programmes si il est disponible.

1. Appuyez sur la touche EPG de la télécommande, le menu Guide Électronique des programmes s'affichera.
2. Appuyez sur ◀/▶ pour voir le guide électronique des programmes précédent ou suivant.
3. Appuyez sur les touches ◀/▶ ou ▶▶/◀◀ pour vous faire passer verticalement d'une chaîne à l'autre.
4. Appuyez sur la touche OK sur côté droit de l'écran (liste de programme) et le programme sélectionné sera réservé dans le menu Timer. Vous pouvez sélectionner autant de programmes que vous souhaitez.
5. Sélectionnez Programme TV/Radio à l'aide des touches TV/Radio de la télécommande.
6. Sélectionnez SAT, liste Favori à l'aide des touches SAT, FAV de la télécommande.
7. Appuyez sur la touche Rouge de la télécommande, le menu Timer s'affichera.



### Menu Minuterie

Ce sous-menu vous permet de programmer la mise en veille de votre récepteur.

1. Appuyez sur la touche rouge dans le menu guide, le menu Timer s'affichera.
2. Appuyez sur les touches ◀/▶ pour déplacer à d'autre menu.
3. Appuyez sur les touches ◀/▶ pour changer la sélection.

## • Interface commune

### CAM (modules d'accès conditionnel)

Pour regarder les chaînes cryptées, vous avez besoin de modules d'accès conditionnel (CAM) et/ou une carte à puce d'abonnement.

*\* Note : sans le module d'accès conditionnel et/ou la carte à puce, vous ne pouvez regarder que les services libre d'accès.*

1. Insérez le module d'accès conditionnel dans l'une de fente du récepteur et une carte Smart dans le module.
2. Le message de « CAM Initializing » s'affichera à l'écran.
3. Après ce message, vous pouvez sélectionner la chaîne souhaitée.



## EN CAS DE PROBLEME

PROBLEME	SOLUTION
Pas d'affichage sur le panneau avant	Vérifiez que le câble d'alimentation. Branchez le câble d'alimentation correctement.
Aucune image Aucun son	Vérifiez que le port de sortie vidéo est correctement branché à la TV. Vérifiez la position du parabole. Vérifiez la connexion du parabole. Vérifiez le signal (aucun signal ou mauvais signal).
La télécommande ne fonctionne plus	Vérifiez et remplacez les batteries.



- TM-5200 D USB Super +** ▶ FTA
- TM-5300 D+ USB Super +** ▶ FTA with Smart Card Reader
- TM-5600 CI USB Super +** ▶ 1 Common Interface
- TM-5400 CI+ USB Super +** ▶ 1 Common Interface with Smart Card Reader



**TM-6902HD-T2 Super**



**TM-7102HD-T2 Super**



**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 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.