OPTICUM ™

**Receiver
XS65**

Manual
digital satellite receiver

Contents

Brief description 1

1.1 Basic features

1. Smart Card reader in Conax Conditional access system
2. Support of SD / HD (MPEG2 / H.264), DVB-S, DVB-S2
3. High resolution video output - HDMI
4. Standard video output - SCART
5. 2 ports in USB 2.0 standard
6. PVR Ready – recording to an external drive
7. Time Shift (video pausing and rewinding)
8. Automatic Stand-by
9. Low power consumption in stand-by mode, below 1W
10. DiSEqC system operation
11. Multilingual menu
12. Electronic Program Guide - EPG
13. 4-digit LED on the front panel
14. Media player Full HD 1080p
15. Globo Remote – an app for Android devices
16. Internet Radio
17. Fast Channel Change
18. Subtitle support

1.2 Package content

1. Receiver
2. Remote Control,
3. Batteries - 2 x AAA (optional)
4. User Manual

1.3 Front Panel

display   change channels/   Power on/off
                 move cursor

1.4 Rear Panel

signal   card reader   HDMI   ethernet
input   output

USB1   S/PDIF   SCART   USB2   power cord
PVR   output   WiFi
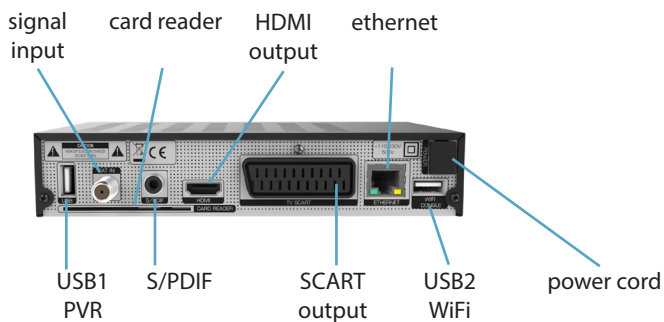
1.5 Remote Control

Button	Function
POWER - ⏻	Turns on / off the receiver from / to standby mode
HDMI	Switches HDMI output resolution of the image.
MUTE - 🔇	Turns on / off the sound.
0–9	Set the channel; Allows you to enter the parameters in the menu.
FAV	Display the list of groups of favorite channels by a category.
🕒	Select the auto switch to standby mode. Off / 10/30/60/90/120 min.
LAST - ↻	Switch to previously viewed channel.
MENU	Displays the main menu on the screen; goes back to the previous menu level.
INFO	Display information about the current function or a channel information bar.
EPG	Displays the electronic program guide on the screen.
EXIT	Cancel the user selection; proceeds from the menu to the viewing mode.
◄ / ►	Regulate the volume of the receiver; controls the cursor left / right.
▼ / ▲	Changes channel; controls the cursor move up / down.
OK	Displays the channel list. Select function in the menu.
TV/♫	Switch between TV and Radio mode.
FIND	Allows you to search channels by name.
P-/P+	Switches to the next or previous page in the channel list and in the EPG view.
HOME	The optional function (depending on the software version of the receiver).
MAILBOX	Displays a list of payments in the Conditional Access Card menu. This function is optional
PVR	Open PVR recordings. Inserted disk is required.
STATUS	Displays information about the receiver.
AUDIO	Audio settings / select audio track.
TEXT	Show teletext of the channel (if available).
SUB-T	Configuration of subtitles.
SLOW, SKIP-, SKIP+, REW, FF, PLAY, PAUSE, STOP, REC	Control video functions (time shift, playback, recording).
colorful buttons	various functions depending on the menu

Installation

<div style="text-align: right">**2**</div>

Read this chapter to find out:
1. how to connect the receiver to your TV,
2. how to install the antenna,
3. how to configure the receiver,
4. and how to use the USB drives with the receiver.

2.1 Connection

❶ Connect the antenna to the input according to the installation guide on the screen. ❷ Connect the flat screen TV with an HDMI cable or ❸ connect CRT TV using a SCART cable. ❹ Plug the power cord into an electrical outlet.

2.2 Starting up for the first time

Turn the TV on and using its functions set the input to the receiver. Turn on the receiver by pressing the POWER button ⏻. The installation guide OSD (On Screen Display - items displayed on the screen by the receiver) will appear on the screen. In the subsequent stages of the guide, you can set the basic parameters of the receiver. At any time you can return to the previous options using the EXIT button and then you can change your selection. All the setting can be changed in the main menu again.

2.2.1 Language Selection

When you start the guide, the receiver asks you first to select the language. Press ▼/▲ to select the desired language and press OK.

2.2.2 Selecting the screen format

Choose the right aspect ratio for your screen (Auto, 4: 3 Pan Scan, 4: 3 Letter Box) or 16: 9 Widescreen) and press the OK button.

2.2.3 End of the Guide

After a suitable USB is connected, press OK. The receiver will show a message that it is ready to work. You can go watch, go back to connection of the antenna or settings in order to fine-tune and search for channels. The receiver will also test the signal. If the tuner is not configured properly, the signal will not be received correctly and you cannot see all the available channels.

2.3 List of satellites

Press ▼/▲ to select the item you want to edit. Using the red button you can change the name of the satellite, and also set the length and direction of E - East and W - West.

[OK] – Select	Use the OK button, select the satellite to be received – a star symbol will show, which satellite is selected.
🔴 **Edit**	Using the red button you can change the name of the satellite, and also set the longitude and direction of E-east and W - West. Enter values using the numeric buttons on the remote control. Use colorful buttons for appropriate action. Red changes case, green removes characters, yellow confirm changes and blue cancel them.
🟢 **Add**	Using the green button, you can add a satellite. Edit it in the same way as described in the section above - Edit.
🔵 **Delete**	With the blue button, you can delete a satellite from the list. Removal of the satellites will delete access to the transponders and the channels. A message on the screen will warn you about that. If you really want to delete the satellite, highlight „Yes" and press OK.

Satellite List

LNB1

9	9.0E Eutelsat 9A	E 9.0	
10	10.0E Eutelsat 10A	E 10.0	
11	13.0E Hot Bird 13	E 13.0	☆
12	16.0E Eutelsat 16A	E 16.0	
13	19.2E Astra 1	E 19.2	☆
14	21.6E Eutelsat 21B	E 21.6	
15	23.5E Astra 3B	E 23.5	

[OK] - Select   ● Edit   ● Add   ● Install   ● Delete
ⓘ Press INFO to see description   [EXIT] Back

2.4 Antenna Installation

In this menu, you can install the antenna and then search for channels. Antenna installation process is often complicated because it requires technical knowledge and additional multiple devices. In many cases you will not need the knowledge of the advanced settings. Modern technologies allow to adjust the antenna without leaving home, using the receiver. When installing the antenna, however, it is necessary to use additional manuals for the antenna, converters, switches or motor used. For a single LNB, leave the default configuration for DiSEqC switch, select the appropriate port settings and select Scan using colored keys.

The strength and the quality of the signal is shown on the bottom of the screen in the form of strips and percentages.Use this as a hint to set up the antenna the best way.

Press ▼/▲ to select the item you want to set, and then using the ◄/► give it the appropriate settings.

2.4.1 Scanning options - color key functions

○ **Change to motor** **/Change to fixed**   Press the white button to select motor or LNB for adjusting the antenna position.

● **Scan the satellite**   Press the Red button to scan a single satellite. De-
                               tailed satellite scan options:

      Satellite   Select the satellite to scan.

      FTA Only   Select No or Yes, if you want to search only unen-
                               crypted channels.

      Network search   Select No or Yes, if you want to scan only the frequ-
                               encies with the NIT (Network Information Table).

      Tuner   Choose a tuner if there is more than one connec-
                               ted.

      Scan   Press **OK** to start a scan.

Installation   12:12   monday 03 january

TP List

◄   [LNB1] 19.2E Astra 1   ►

   🔍   TP Search

1	1072	FTA Only	No
2	1074	Scan Channels	TV + Radio
3	1075	Network Search	No
4	1077		OK Cancel
5	10788MHz	22000Ks/s	V

Signal Intensity   36%

Signal Quality   10%

🔴 Edit   🟢 Add   🟠 Delete   🔵 Search

ℹ️ Press INFO to see description   [EXIT] Back
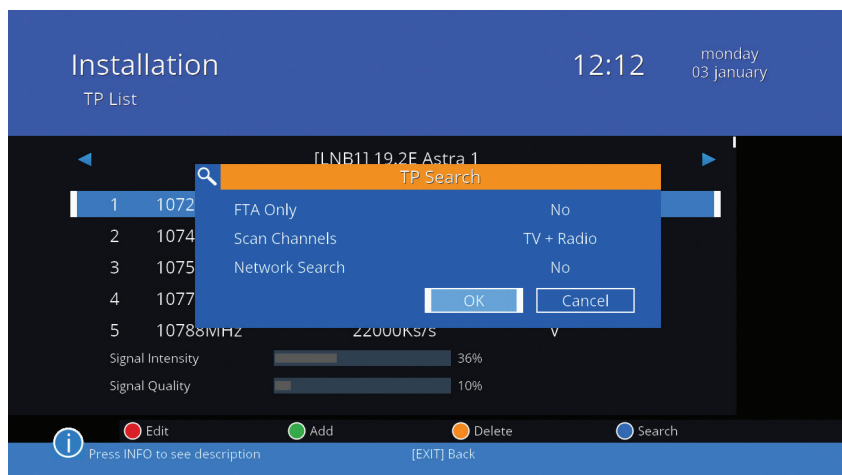
🟢 **TP search**   **Transponder scan.** Press the green button to scan the transponder. In the window that appears after 3 seconds on the screen, set the options:

FTA only   Select Yes if you want to search only unencrypted channels.

Scan channels   Select the type of channels you want to search (TV, radio, or both at once).

Network search   Select Yes, if you want to scan only the frequencies with the NIT (Network Information Table). When this option is selected, the progress bar is not display.

Press ▼/▲ to go to OK and press the OK button to start scanning, or choose Cancel to return to the settings.

🟡 **Edit TP**   **Operations in the transponder list.** Press the yellow button to see a list of transponders. This feature is also available after pressing the green button and after an exit from the window of a single transponder scan settings. Press ◄/ ► to change the satellite. Using the ▼/▲ buttons select the transponder. You can read the signal strength and quality.

Installation			12:12	monday 03 january
TP List				

[LNB1] 19.2E Astra 1

1	10729MHz	22000Ks/s	V
2	10743MHz	22000Ks/s	H
3	10758MHz	22000Ks/s	V
4	10773MHz	22000Ks/s	H
5	10788MHz	22000Ks/s	V

Signal Intensity 36%
Signal Quality 10%

🔴 Edit   🟢 Add   🟠 Delete   🔵 Search
Press INFO to see description   [EXIT] Back

Features available in the edit transponder window (colored buttons):

🔴 **Edit**   Set frequency, symbol rate and polarization for the selected transponder.

🟢 **Add**   Add a new transponder, set its frequency, symbol rate and polarization.

🟡 **Delete**   Delete a transponder. Confirm your decision by selecting „Yes" and press OK or select „No" to exit.

🔵 **Search**   Scan a transponder as in TP Scan menu (described above).

🔵 **Blindscan**   **Automatic scan.** Press the BLUE button to go to search for channels without making any additional settings. Blindscan is an operation that scans all available transponders and frequencies, and therefore takes longer than other scans to finish.

2.5.2 Scanning options – using the LNB

Installation   12:12   monday 03 january

Antenna installation and channel search

Satellite	(2/2) 19.2E Astra 1
LNB Freq	Universal(9750-10600)
Transponder	(1/130) 10729 V 22000
DiSEqC1.0	Port2
DiSEqC1.1	Disable
22K	Auto
Easyfind	Disable
Signal Intensity	36%
Signal Quality	10%

Change to motor   Single satellite sc   TP Scan   TP Edit   Blindscan
Press INFO to see description   [EXIT] Back

Press the white button to select how to set the antenna to the LNB.

Satellite	Select the satellite you want to use. You can choose from the satellites that were previously selected and marked with a star on the list of satellites.
LNB Frequency	Select the frequency at which the converter is working. This choice has an impact on what further options are possible to set in this menu.
Transponder	Select a transponder according to your needs.
DiSEqC1.0	Select the port to which you have connected the DiSEqC.
DiSEqC1.1	Adjust the DiSEqC1.1 to receive signals from more sources.
22K	Disable 22K for LNB with unusual frequency. With universal values, the parameter is set to „Automatic"
Easyfind	Enable EasyFind, if you have a converter that supports it. This function is described in section 2.6 on page 19.

IF Channel	Select IF Channel (1 to 8).
Delete all	Delete all the settings of the antenna; available if the DiSEqC1.2 was selected.
Motor Setting	detailed settings of the motor. (Different settings depending on the selected standard USALS / DiSEqC1.2)
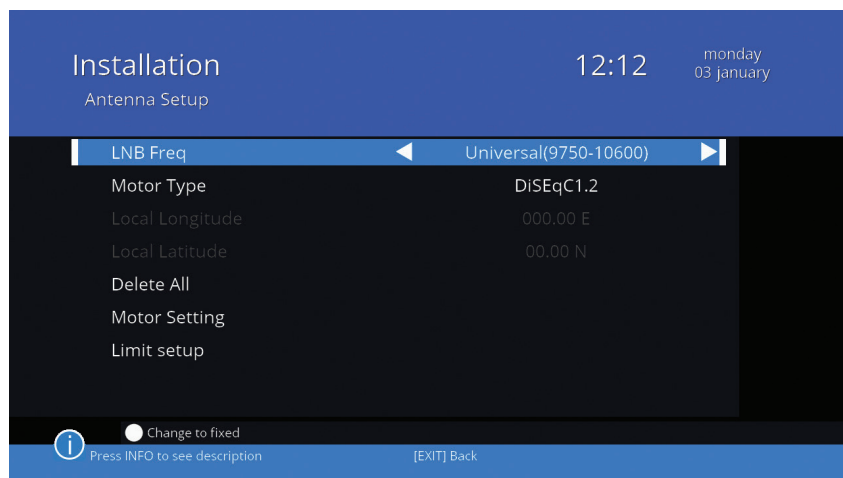
Settings for DiSEqC1.2:

Satellite Press ◄ / ► to select the satellite. You can choose from satellites marked with a star symbol that are already on the list of satellites.

Transponder Press ◄ / ► to select a transponder.

Position No.&Save Press ◄ / ► to select the number you want to assign the position of the antenna.

Go to X Go to the saved position.

West ◄ Save/Stop ► East

Press ◄ / ► to rotate the antenna to the west or to the east.

Press **OK** to save the item under the pre-selected number, or to stop the rotation of the antenna.

Recalculation Highlight and press **OK** to calculate and check the position of the antenna.

Installation
Motor Setting   12:12   monday 03 january

Satellite	◀	(2/2) 19.2E Astra 1	▶
Transponder		(1/130) 10729 V 22000	
Position No.&Save		0	

Go to X

West ‹   Save   › East

Recalculation

Signal Intensity   36%
Signal Quality   10%

🔴 Single satellite sc   🟢 TP Scan   🟠 TP Edit   🔵 Blindscan
ⓘ Press INFO to see description   [EXIT] Back

Settings for USALS:

Satellite   Press ◀ / ▶ to select the satellite. You can choose from satellites marked with a star symbol already on the list of satellites.

Transponder   Press ◀ / ▶ to select a transponder.

The antenna should automatically turn to the selected satellite and transponder.

Limit setup   this settings allow you to set lthe farthest point to which the rotor turns the antenna. This function is used when there are physical barriers that would stop the antenna. Press ◀ / ▶ to turn on the western or eastern limit. Using▼ button go to **West < Limit setup > East.** Press ◀ / ▶ to turn the antenna to the west or east, and press OK. There will be information of the limit that was set on the screen. To return to the relevant point, press ▼ and then click OK.

Installation   12:12   monday 03 january

Motor Setting

| Satellite | ◀ | (2/2) 19.2E Astra 1 | ▶ |

Transponder   (1/130) 10729 V 22000

Signal Intensity   36%
Signal Quality   10%

🔴 Single satellite sc   🟢 TP Scan   🟠 TP Edit   🔵 Blindscan
ⓘ Press INFO to see description   [EXIT] Back

2.5 Easyfind

Easyfind is a feature that allows you to set the position of a satellite dish without compass, another person and technical understanding. You need the matching Easyfi nd LNB (which is the gizmo on the end of the dish arm that collects the satellite signal and sends it to the receiver). Set the elevation of the dish according to your location and point the dish East. In the Antenna Installation menu choose a satellite and go to the right column with features of a satellite and scroll down to Easyfind. Enable it with the button. The diode on the LNB now will indicate if the satellite dish receive strong signal. Slowly move the dish. If the light pn LNB glows yellow it means you get the dish clo-ser to stronger signal. Continue slowly until it fl ashes green and then when it glows permanently green you are locked onto the satellite with a strong si-gnal. If you want to adjust the dish to satellite again you can turn on Easyfind function in the status menu.

green diode on the LNB
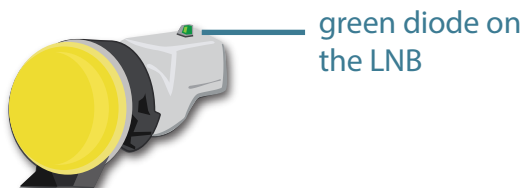
2.6 Automatic Power Down

In accordance to the EU requirements, your receiver has been equipped with the „Automatic Power Down" function. After a set amount of time, the receiver will automatically switch to the standby mode. It means that in practice, if the receiver doesn't receive any signal from the remote controller or from the buttons on the front panel, it switches itself off. Depending on the model, this function is either on or off. You can disable or enable it using appropriate settings in the menu.

2.7 Conditional Access Card

Without a conditional access card inserted, the device can only receive unencrypted channels. Insert the card to be able to watch encrypted channels. The card can be obtained from satellite TV providers.
Insert the card into the reader a gold chip facing up. Note! If the location of the card reader in your decoder is different from the picture above, insert the card the gold chip facing downwards.

Operation

3

Read this chapter to learn how to use and set up the receiver, depending on your needs.

3.1 Basic Features

To turn your receiver ON or to Standby, use the button ⏻ on the remote control. Choose the desired channel with the ▼/▲ buttons. Alternatively, you can input the channel number with the numeric buttons on the remote control. Press OK in viewing mode to display the TV Channel List. The volume can be adjusted with the ◀/▶ buttons.

3.2 Changing channels

Your receiver is equipped with several ways to change the channels.
1. Directly by selecting the channel number buttons 0-9.
2. Through the channel list and OK button.
3. Using the P +, P- or ▼/▲.
4. Through the **EPG**.
5. Through the **FAV** button – lists of favorite channels.
6. Through the ↻ button, to switch to the previously viewed channel.

Direct access through the 0-9 buttons

To gain direct access to a certain channel, simply input its number with the 0–9 keys on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel or press OK immediately after selecting the channel number.

Channel List

Press OK in viewing mode to display a list of channels. Use ▼/▲ in the channel list to highlight the desired channel and press OK again to switch to it. Press ◀/▶ or P +, P- to go to the next or previous page by ten channels. Press OK again to exit the Channel List.

P+, P- or ▼/▲

The **P+** and ▲ buttons to switch to the next channel.
The **P-** and ▼ buttons to switch to the previous channel.

EPG

Press the EPG in viewing mode to display the electronic program guide. Use ▼/▲, to select a channel from the list and press OK to switch to it.

Favorite

Use the FAV button to see a list of your favorite channels. Use ▼/▲, to select a category and then a channel from the list and press OK to switch to it.

Previous

Use the ↻ button to switch to the previously viewed channel.

3.3 Sleep Timer

Press ⏱ on the remote control to set the time after which the receiver turns off automatically. Press the appropriate number of times to set the desired time. You can set the time after which the receiver will automatically turn off to 10, 30, 60, 90, or 120 minutes.

3.4 Information bar

While watching TV you can press the INFO button to display information about the current program. Using the ◄ / ► buttons you can view information about the following programs on this channel.

3.5 EPG (Electronic Program Guide)

Electronic Program Guide is a function that allows, among others, to view the current TV program. EPG information is derived from satellites and are dependent on the sender, so the lack of information in the EPG is not due to malfunction of the receiver.
In view of the EPG on the left side is the channel list on the right programs. Use ▼/▲ to select the channel. Press OK to switch to the selected channel.
By using the P- and P + change the page - switch EPG view to the next or the previous ten channels.
Using the ◄◄ and ►► buttons zchange the day for which an information is

displayed.

Using the REC button, add or delete a recording. This function is described in the next section **3.6 TIMER**

Info bar displays information about the current program. If you want to enlarge it, use the INFO button on the remote control.

In the menu „System Settings" EPG settings (detailed on page 37), you can configure the behavior and style of the EPG. There are two different styles: the schedule and the newspaper.

EPG – schedule

EPG – newspapaer

3.6 TIMER

Timer is a function, which can be accessed via the EPG menu by pressing the ● **REC** button. Use the cursor keys to navigate through the options in the timer settings.

Timer mode	Press ◀/▶ to set the recording mode. Recording – single recording; Cyclic recording – recording repeated regularly.
Start recording	Available if the recording mode is selected. Set the number of minutes before the scheduled program, when the receiver is to start recording (from 0 to 30).
Stop recording	Available if the recording mode is selected. Set the number of minutes after a scheduled program when the receiver is to stop recording (from 0 to 30).
Repeat recording	Available if cyclic recording mode is selected. Recording can be repeated every day, once a week or several times a week.
Choose weekdays	Available if cyclic recording mode is selected. Highlight the day and press OK to select the day of the week when the recording is to be repeated. If you select a few days, the receiver will ask you if you want to change the mode to repeat a few times a week.
Don't show this window in the future	available if the recording mode is selected. Mark and save, if you want to disable a window showing the details of the recordings in the EPG view. This window can be turned back on in the System Settings menu, recording menu (detailed on page 44), where you can also set the default additional starting and ending times of the recordings. Recording mode is set to *recording* by default.

3.7 Radio channels

The receiver is adapted to receive and play digital radio channels available from a satellite. Use the **TV/♫** button,to switch between TV and radio channels. Radio channels have their own list and EPG. You can manage the radio channels almost the same way as TV channels.
The receiver also allows you to receive Internet radio via ethernet or wireless network. This feature is described in detail on p. 41.

3.8 Find
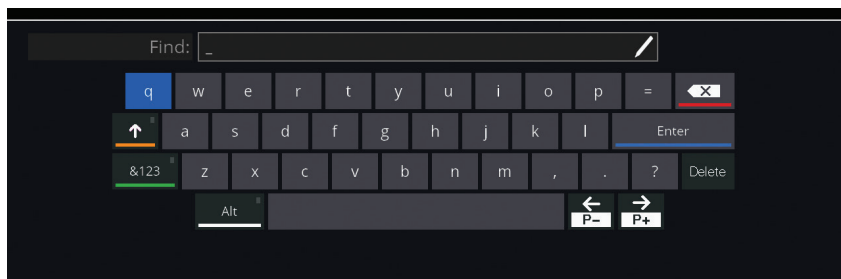
Find is a function that allows you to search for a channel by typing its name. Press FIND on the remote control to display the Find window. Use the cursor keys to select a desired character and press OK to enter it into the text box. After entering the first letter, a list of channels that contain it in their name. Press the blue button or move the cursor to „Return" to go to the list of found channels. Press ▼/▲ to select the found channel and press OK to display it.

3.9 Mailbox

This function is optional. Your service provider may send you information about services and payments. To see a list of messages from the operator, press MAILBOX (green button).
If you receive a new message, the screen displays the envelope symbol.

3.10 PVR – recording programs

List of recordings

Press the yellow button (PVR) to go to the list of recordings. Already made recordings are marked with white color and scheduled recordings are red. Press ▼/▲ to select the recording from the list to edit it. Edit the list of recordings using the colored buttons:

● **Rename**   Rename planned or existing recordings. By default, the recordings are saved under the name of the channel.

● **Block**   Available only for existing recordings. This function allows you to assign a password to a recording which prevents from playing it by unwanted people.

● **Delete**   Delete the selected recording.

● **Add recording** Plan an another video recording.

Add a recording

Press ▼/▲ to select the type of setting you want to change.

Wakeup channel	Press ◄ / ► to select the channel that broadcasts the program you want to record. You can also press OK to display the drop-down list that can be browsed using the ▼/▲ buttons.
Wakeup Date	Set a date of a planned recording. Press ◄ / ► to highlight a digit in the date you want to change, and then enter a new one by using the numeric buttons.
On time	Set a time for a planned recording. Press ◄ / ► to highlight a digit of the time you want to set, and then enter a new one by using the numeric buttons.
Duration	Set a duration of a recording using the numeric buttons.
Timer mode	Press ◄ / ► to set the recording mode. Recording – a single recording; Cyclic recording – a recording repeated regularly.

Start recording	Available if the mode is set to recording. Set the number of minutes before the scheduled program for the receiver to start recording (from 0 to 30).
Stop recording	Available if the mode is set to recording. Set the number of minutes after a scheduled program for the receiver to stop recording (from 0 to 30).
Repeat recording	Available if the mode is set to cyclic recording. Recording can be repeated Daily, weekly or several times a week.
Choose weekdays	available if cyclic recording mode is selected. Highlight a day and press OK to select a day of the week on which the recording is to be repeated. If you select few days, the receiver will ask you if you want to change the mode to repeat a few times a week.

Recording

To make recording possible, connect the USB drive to the receiver. The recording time depends on the size of the USB memory. In a viewing mode, recording directly from the remote control can be turned on by pressing ● **REC**. The receiver will ask „Do you want to stop the recording at the end of the program?" With the EPG the receiver knows when the scheduled program ends and can stop the recording. Select Yes if you want the receiver to end recording at the right time or not, if you want to decide when to stop it. To stop the recording, press the ■ **STOP** button and confirm it selecting Yes.

During recording, you can do the following:
- Press ❚❚ (PAUSE) to stop the program. The receiver will continue to record the rest of the program.
- Press ▶ (PLAY) to play the program after a pause.
- Press ■ (STOP) to stop recording.
- Press ◀◀ (REW) / ▶▶ (FF) to rewind and play fast forward.
- Use the ◀◀❙ (SKIP–) / ❙▶▶ (SKIP+) to go back and forward by a set amount of time.
- Use the ❙▶ (SLOW) to slow down the playback of the program.

3.11 Time Shift

Time Shift allows you to stop playing the current program and resume it later. When using the time shift function, you can not change the channel. To do this, you must stop the function using the button ■ (STOP). During recordind this function is unavailable.

- Press ❚❚ (**PAUSE**) in viewing mode to start the time shift function.
- Press ▶ (**PLAY**) to resume the program.
- Press ■ (**STOP**) to return to the playback of the current live program.
- Use the ◀◀ (REW) / ▶▶ (FF) to rewind and play fast forward.
- Use the ◀◀❙ (SKIP–) / ❙▶▶ (SKIP+) to go back and forward by a set amount of time.
- Press ❙▶ (SLOW) to slow down the playback of the program.

3.12 Status

To view information about the receiver, its software and its current operation, press the STATUS (blue button).

In this window, you can see which channel and which satellite and transponder is being read. There are also information about the both possible tuners: status, signal strength and quality.

In the receiver status there is also available the EasyFind function. Press the red button to turn it on or off.

3.13 AUDIO

Some channels provide transmission in several audio formats and in different languages. To select a different audio track, press AUDIO. The list of available audio tracks will be displayed. Use ▼/▲, to select the desired audio track and confirm your choice with OK.

3.14 Teletext

Some satellite channels provide a teletext. Teletext is a service that offers a variety of textual information, usually on the news from the world, sport, weather and TV program. Access to teletext can be obtained via the TEXT

⚙	Receiver status		
	STATUS		
Channel No.	Das Erste HD	HW type	HD-XS65-TWIN
Satellite	19.2E Astra 1	SW type	GER_NETR_PVR
Transponder	11493MHz H 22000kS/s	Software version	v. 1.2.7
PID	P5100 V5101 A5102	System data size	32568/32568
Parameters	L180 HD MPEG-4	HEAP	118124/126817
SID	10301	EPG	45412/45412 |7|
LNB2	TUNER OFF	Easyfind	Disable
Tuner 1/2 Status:	1: NO SIG 2: N/A.	Runtime	0:00:16:00
Signal Intensity	LNB1 45% LNB2 45%	Card number:	021 1771 5649 - 0
Signal Quality	LNB1 5% LNB2 5%	Service No.	
	🔴 Easyfind		

button. Use 0-9 to enter the number of the page you want to view. Colored buttons on the remote control allow you jump to a specific page immediately, as indicated at the bottom of the teletext. Use ▼/▲ to select the previous or next page. Press EXIT or TEXT to exit.

3.15 Subtitles

Some channels provide subtitles. Press SUB-T while watching to see a list of available subtitles. Select subtitles using ▼/▲ and confirm your choice with OK. Press EXIT to exit without making changes.
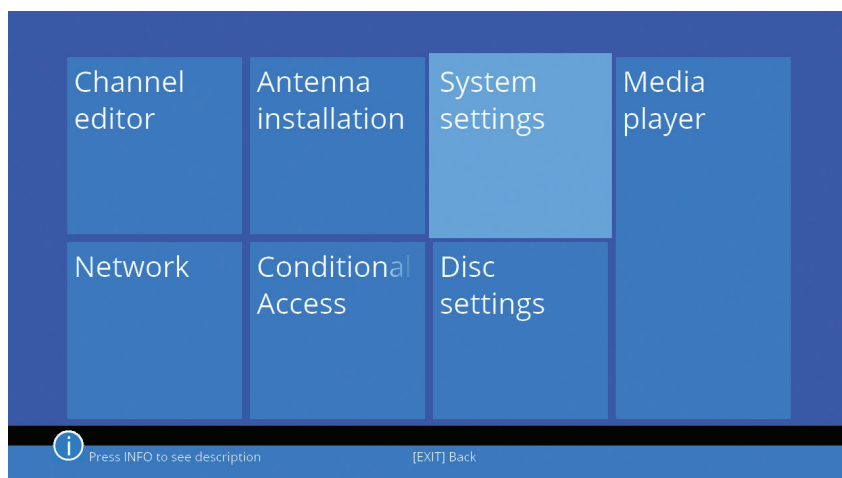
Menu   4

Read this chapter to learn how to use the menu of the receiver, and setbthe receiver to fit your needs.

4.1 Main menu

To access the main menu, press the MENU button while in the viewing mode. Use the cursor keys to navigate through the menus. Use the OK button to select the submenu. Press EXIT or MENU to return to the previous screen.

Channel editor	Antenna installation	System settings	Media player
Network	Conditional Access	Disc settings	

ⓘ Press INFO to see description   [EXIT] Back

4.2 Edit Channels

Select Edit channels using the cursor keys and press OK to enter. Use ▼/▲, to highlight the selected submenu and press OK to enter it. Press EXIT or MENU to return to the previous menu.

List of TV channels

Select a list of TV channels with ▼/▲ and press OK to enter. In this menu you can manage the list of channels.

Use ▼/▲ to select the channel you want to select, and then press OK. You can also use ◀ to select or deselect all channels.

○ **Favorites**	Use the WHITE button on the remote control. Then use ▼/▲ to select the category you want to assign to a channel and press OK.
● **Lock**	You can lock selected channels so that it can be viewed only after entering the code – the red button on the remote control (default password: 0000).
● **Skip**	Channels will be marked to skip when changing channels with ▼/▲. Despite this, they will be still accessible from the Channel List. To select the channels to be skipped press the green button.
● **Move**	To activate the move function, press the yellow button. You can then move selected channels and change the order of the channel list using the ▼/▲ buttons.
● **Delete**	Press the blue button to activate the Delete function. The selected channel will be deleted from the list. Select Yes to save the changes or No to discard them.
▶ **Rename**	Press ▶ to switch to the channel name change. After entering the new name, save the changes by pressing the BLUE button on the remote control.

When you exit the menu after modifying the list, confirm your choice selecting YES, if you want to save the changes or select NO to discard them.

List of radio channels

Managing the list of radio channels is the same as it is for the list of television channels.

Favorites

Select Favorites – use ▼/▲ and press OK to enter. In this menu you can manage groups of favorite channels.
Groups of favorites are created by default. They are movies, music, news, etc. However, you can rename groups. Use ▼/▲ to highlight a group and use ▶, to change the name of your favorite channels. After entering a new name, press

Channel editor — TV Channel List — 12:12 — monday 03 january

☐	1	Das Erste HD	
☐	2	ZDF HD	
☐	3	RTL Television	
☐	4	ProSieben	
☐	5	SAT.1	
☐	6	RTL2	
☐	7	SUPER RTL	
☐	8	RTLNITRO	
☐	9	kabel eins	

OK Select/deselect   Select/deselect all   Rename

ⓘ Press INFO to see description   [EXIT] Back

BLUE to save the changes.

To edit a group, first highlight it using ▼/▲ and then select OK. A group can be modified only if it has already channels assign. Select the channel that you want to modify and press OK.

To move the channel in the order of the list, press the YELLOW button, and then set it with ▼/▲.

To remove a channel from the list, press the Blue button and confirm your choice by selecting YES and clicking OK.

When you exit the menu after modifying the list, confirm your choice selecting YES, if you want to save the changes or select NO to discard them.

Delete all

Use this function to delete all channels. Select Delete all with ▼/▲ and press OK. Select Yes to confirm your choice or NO to reject it.

The Delete all permanently removes all channels from the receiver and you can not exit the menu mode without rescannig for channels.

4.3 Antenna instalation

Select Antenna Installation using the cursor keys and press OK to enter. In this menu, there are advanced methods of installing the antenna and scanning for channels. They have been described in detail in the introduction in Chapter 2. Installation (p. 8-19).

4.4 System settings

Select System Settings using the cursor keys and press OK to enter. Use
▼/▲to highlight the selected submenu and press OK to enter it. Press EXIT or
MENU to return to the previous menu.

Receiver Information

Here you can find information on the model of the receiver and its software.

Upgrade by USB

The software and a channel list can be updated using a USB drive. First
upload the software file or a list to the drive.

Update mode	With ◀/▶ to select what you want to update.
Update file	With ◀/▶ select the file with the new software or a list of channels.
Start	Press OK to begin the update. **NOTE!** Do not remove the USB drive during the update. Channel list and favorites will be deleted and the settings will be restored to default.

Save a backup copy of the program

In this menu you can save on a USB drive a software and the channel list as
backups.

The scope of data	With ◀/▶ to select the type of data you want to save.
File	Displays name of the file.
Start	Press OK to start recording. **NOTE!** Do not remove the USB drive while writing.

Video and audio settings

Using this menu, you can adjust the settings to the TV. The following options
that are available:

Resolution	With ◄/► switch between the values from 480i to 1080p. Apply a resolution that fits your TV.
Format	Use this feature to select the aspect ratio and the preferred method of conversion. Available options are: Auto (automatic detection of aspect ratio), 4: 3 PS (widescreen image shows the full 16: 9 to 4: 3 TV), 4: 3 LB (black bars on top and below the picture) and 16: 9 (use this setting for TVs 16: 9).
Exit Video	Use this function to select how to connect to a TV. Select CVBS or RGB.
Digital Audio Output	Choose between PCM and Bitstream. If the connected audio device does not have a Dolby Digital decoder, set this to PCM, otherwise the Bitstream.

After making the changes, you will be asked to confirm them. Select YES if you want to use them, or NO to discard them.

Display Settings

In this menu, you can adjust the display settings of the receiver, such as brightness, contrast, saturation, hue and sharpness. To change the value, select it using ▼/▲ and use ◄/► to adapt it to your needs.

Time settings

In this menu, you can set your region and time zone. Select Settings Time with ▼/▲ and press OK.

Region	With ◄/► select your region.
GMT Usage	Set region, User or Off.
GMT Zone	This function allows you to select the time zone and is only available when GMT Usage is enabled. The range is from GMT -11: 30 - 12: 00 and is increased by half an hour. Cities located in the zone are displayed at the bottom of the screen.

Summer time	Select On to add an hour during daylight saving time.
Date	Date and Time settings are available when the option GMT Usage is disabled. With 0-9 to enter the date.
Time	Date and Time settings are available when the option GMT Usage is disabled. Use keys 0-9 to enter the time.

Parental lock

In this menu, you can protect access to the menu and/or channels with a password. You can also set a new password. Use ▼/▲ to select Parental and press OK. You will be prompted to enter the password. (Default password: 0000).

Menu lock	Locks the main menu. Set to Enable or Off.
Channel lock	Choose between: Enable or Off. When locked, blocked channels will be available after entering a password.
Age lock	Optional function. Choose between: Off, for 7 years, 12 years, 16 years, 18 years. Age-restricted channels will be displayed only after entering the password (depending on the broadcaster.)
New password	Use the 0-9 buttons to enter your new password (4 digits).
Confirm password	Re-enter the password.

Language Settings

In this menu, you can set your language preference. Select Language settings with ▼/▲ and press OK.

Language settings	With ◄ / ► select the language for the menus and descriptions of the functions displayed on the screen.
The first audio track	With ◄/► select language first audio track.
The second audio track	With ◄/► select language other audio tracks.
Subtitle language	With ◄/► to select the language for teletext (if available).

Teletext	Use ◄/► to select language of the teletext (if available)

OSD Settings

In this menu, you can change the settings for the OSD, which is the menu and other items displayed. Use ▼/▲ to select OSD Settings and press OK.

Display of subtitles	Use the ◄/► to set display to Manual, Off or On.
Delay of OSD	Use the ◄/► to set the time after which the program information on the screen disappear. The range of functions is 1-10 seconds.
Transparency of OSD	Use the ◄ / ► to set the transparency of the menu (Off-40%).
Screen saver	Use the ◄/► to select whether you want the screen saver to appear after prolonged inactivity while using the menu.
Playback progress bar	With ◄ / ► select whether you want to see the playback progress bar: at the top or bottom of the screen.
Extended channel list (OK button)	With ◄ / ► enable or disable the extended list. In the expanded list, you can see a preview of the EPG, which channels are encoded and recording.

EPG settings

Style of EPG	Use the ◄/► select schedule or newspaper view (for a detailed description see p. 22.)
EPG channel switching	This option is available in newspaper view. When switching to the detailed view of the EPG another channel, the receiver starts playing. If this feature is disabled, you can view the EPG for other channels without switching to it.
EPG recording on a USB drive	Enable this feature if you want the EPG information are stored on an external USB drive.
Clear the contents of the EPG buffer	Clear saved data on USB disk.

Others

Automatic power off	With the ◀ / ▶ buttons switch between the values of timing and Off. When this feature is enabled, the receiver turns off after the preset time since last use of the remote control or the buttons on the unit. Disable this feature to avoid automatic shutdown.
Clock on display	With the ◀ / ▶ buttons set the clock on or off. If you set the clock to be displayed all the time, the receiver does not go into the actual standby mode (not „turn off"), during which the energy is saved. Despite the off the TV will consume more electricity.
Alternate remote	With the ◀ / ▶ buttons enable or disable the ability to support the receiver using an alternative remote control.
Preview video in the menu	With the ◀ / ▶ buttons enable or disable the video preview, or to what is currently being played in the menu.

Factory settings

This function allows you to reset the receiver to factory settings, erases all settings made by the user and scanned channels. It restores the receiver to the state it was right out of the box. Use ▼/▲ to select Default Settings and press OK. Then confirm the action by selecting Yes.

4.5 Media player

Select Media player with the cursor keys and press OK to enter. Use ▼/▲ to highlight the selected submenu and press OK to enter it. Press EXIT or MENU to return to the previous menu.

This function allows you to play different files from a connected USB drive.

Your recordings

In the menu you record programs already recorded are displayed in white, and scheduled (timer) in red.

Use the ▼/▲ buttons to highlight the selected recording and press OK to start play. During playback, you can do the following:

- Use ❚❚ (**PAUSE**) to stop playback.
- Use ▶ (**PLAY**) to resume playback at normal speed.
- Use ▶▶ (**FF**) to play faster or ◀◀ (**REW**) button to rewind. Press the button as many times as you need to set the desired speed (x2, x4, x8, x16, x24).
- Use ■ (**STOP**) to stop playback and return to the list of recordings.
- Use ❙▶ (**SLOW**) to slow down playback. Press the button as many times as you need to set the desired speed (x1/2, x1/4, x1/8).
- Use ❙◀◀ (**SKIP−**)lub ▶▶❙ (**SKIP+**) button to jump to the next or previous track.

After playback, the unit will automatically return to the list of recordings. You can manage the list of your recordings using the colored buttons:

🔴 **rename**	Using the red button, go to the window to rename the highlighted record.
🟢 **lock**	Using the green button lock the recording so that watching it would be possible only after entering the password. (The default password is 0000)
🟡 **delete**	Remove unwanted recording.
🔵 **add recording**	Plan your next video recording. A detailed guide to planning of the recording is located on page 26.

Your videos

In this menu, you can play movies stored on a USB drive.

Use the ▼/▲ buttons to highlight the selected recording and press OK to start play. During playback, you can perform the same operations as described in the preceding paragraph of your recording.

Your photos

In this menu, you can view images stored on a USB drive.

Use the ▼/▲ buttons to highlight the selected image and press OK to start to show.

Use the ▼/▲ buttons to switch to the next or previous image. Using ◄/► you can rotate the image clockwise or counterclockwise.

Your music

In this menu, you can play music stored on a USB drive.

Use the ▼/▲ buttons to highlight the desired track and press OK to start to play it.

During playback, you can perform the same operations as described in section above apart from the I▶ (**SLOW**) action.

Using the YELLOW button, you can set the repeat mode from the list on one of the three: repeat, random, one after the other.

4.6 Network / APP

Select Network / APP using the cursor keys and press OK to enter. Use ▼/▲, to highlight the selected submenu and press OK to enter it.

Network Settings

Internet connection can be automatic – via DHCP or set manually. To set the connection manually, set DHCP to Off. Then, using the number buttons on the remote control, enter the IP address, subnet mask, default gateway, DNS Primary and Alternate. Go to Confirm and press OK.

Wireless Network Settings

To connect to a wireless network, you must first equip it with a wireless network card. This is possible by connecting a Wi-Fi card via the USB port. After connecting the adapter the receiver displays information about the device is detected, scanning for networks and connecting. Available networks will be displayed in the list. You can refresh this list using the ● **RED** button. To connect to your network, highlight it with ▼/▲ and press OK. For a secure network, enter the appropriate password. Type the password, moving around the virtual keyboard using the ▼/▲ and ◄/► and selecting characters by pressing OK. You can select the function below, the „Show key" if you want the entered password to be visible. After entering the correct password, the receiver connects to a wireless Internet network.

Update over the Internet

In this menu, you can update the software of the receiver via the internet.

URL   Press OK to enter the name of an Internet address, which will be installed updated software. If you do not know the proper address, you will not be able to use this function. Type addresses moving on the virtual keyboard using the ▼/▲ and ◄/► and selecting characters by pressing OK. Select the blue button to finish entering or go to „Save" and press OK.

Start   Start Press OK to begin the update. The receiver will start checking the protocol. If you find software to download, start the update. You can interrupt the download updates using the ● **YELLOW** button.

Internet Radio

When the receiver is connected to the internet you can play Internet radio stations. Internet Radio menu displays a list of available radio stations. To navigate through the list, use the ▼/▲ and **OK** to play. Some radio stations provide a number of radio channels. Select the channel you want to listen to and press OK. While listening to Internet radio, you can not use the buttons such as ▌▌ (**PAUSE**), ▶ (**PLAY**), ▶▶ (**FF**) etc.

Globo Remote

The Globo Remote allows you to remotely control the receiver via any device based on the Android operating system. This device must be in the same local network as the receiver. Download the free app from the Google Play store. To do this, scan the QR code appears, or search for an application called Remote GLOBO.
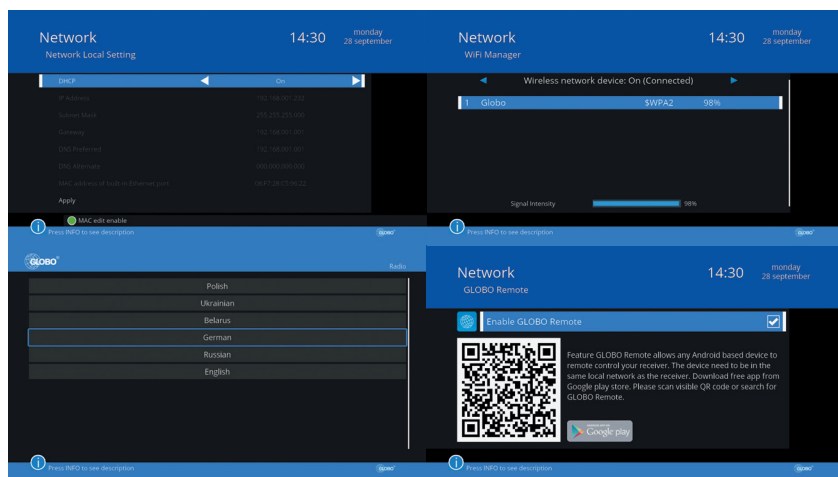
4.7 Access card

Select access card using the cursor keys and press OK to enter. Use ▼/▲ to highlight the selected submenu and press OK to enter it. Press EXIT or MENU to return to the previous menu.

Status subscription

In this menu, you can check the status of your subscription and the right to receive the channels.

Change CA PIN

In this menu, you can change the PIN CA. First, enter the current PIN, and then double-new PIN.

Parental control

In this menu, you can set the type of restrictions on the availability of programs. Use the ▼/▲ buttons to select an age limit and press OK. To make changes to the CA must provide a valid PIN.

About Conax CA

Here you will find information about the card number and, optionally, other additional information.

Messages

In this window, you can view the messages that your satellite TV provider can send information on services and payments.

4.8 Disk Settings

Select the USB drive using the cursor keys and press OK to enter. Use ▼/▲, to highlight the selected submenu and press OK to enter it. Press EXIT or MENU to return to the previous menu.

Information on USB drive

This menu displays the relevant information on the USB device. Select infor-

mation about the USB disk drive Settings menu and press OK.
You can check out what is the size of the drive and how much free space is left on it. Additionally, you can format the disk, using the BLUE button. Confirm the action by selecting Yes.

Connect the USB as on the screen

Displays information about how to properly connect the USB drive to the receiver. The first is a USB input for additional devices such as a network adapter. While the other is used to connect the drive to record.

Recording Settings

In this menu, you can set the default method of recording.

Jump	With the ◄ / ► buttons switch between time-values (from 30 sec. To 30 min.) Over the scroll is used during playback and time shift with the I◄◄ (**SKIP–**) or ►►I (**SKIP+**),
default start of a recording	Set the number of minutes before the start of the program the receiver starts recording.
default end of the recording	Set how many minutes after the end of the program the receiver stops recording.
Do not show the details in the recording window	Press OK to enable or disable the recording of detailed planning available EPG view.
The default mode of recording	If you turn off the window showing the details of the recording, you can set the default mode for the planned recording.

Safely remove USB drive

Use this function to safely eject the USB device before manually removing it from the slot in the receiver. This will prevent the risk of data loss. Use ▼/▲ to select Safely Remove USB drive and press OK.

Troubleshooting 5

There are various reasons for the malfunction of the receiver. After you apply the following tips, if the receiver still does not work properly, contact a professional service. Do not open or disassemble the receiver. This can lead to a dangerous situation and the warranty will be void.

Problem	Possible Cause	Suggested solution
No power – the LED diode is off	The power cord has not been well connected	Plug the power cord into the outlet tightly and turn on the power; if there is no power still, turn off the power again, and turn it on in 5-10 minutes
No signal found	The satellite TV cord has not been well connected	Plug the satellite TV cord correctly
	The cord is damaged	Change the cord
No picture	The picture format is set wrong	Set the correct TV format
	HDMI is set for higher resolution then available in a TV	Choose another HDMI resolution.
Channels not found	The satellite dish is not adjusted correctly	Adjust the aerial; make sure the signal strength indicator is blue and the quality indicator - green
	Searching parameters are incorrect	Enter the correct frequency parameters/ bands

Problem	Possible Cause	Suggested solution
No response to remote control	Receiver is off	Plug in the receiver and turn it on
	Remote control is not aimed correctly	Aim a remote control towards the front panel
	Front panel is obstructed	Remove the obstacle
	Remote control batteries are exhausted	Change the batteries
	Batteries are plugged incorrectly	Plug the batteries correctly
	To big distance	Use the remote controller within closer range
Wrong audio track/subtitles	Wrong language is set	Change the language in the menu
No sound	The receiver is in the mute mode	Cancel the mute with the button on the remote control
	The volume is too low	Adjust the volume
	The cord is plugged incorrectly	Plug the cord correctly
Serious distortion of picture	The signal is disrupted	Plug the cord correctly
The receiver turns off automatically	The automatic power down function is on	Turn the automatic power down off

Safety Precautions 6

Warning: The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to „dangerous voltage" and to prevent from a risk of electric shock.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

Warning: To reduce the risk of electric shock, don't open the cabinet. Refer servicing to qualified personnel only.

Warning: The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).

Warning: Do not use this receiver where contact with or immersion in water is a possibility. Do not use near flower vase, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc.

Warning: Do not put the candle or lamp stand on the cabinet; otherwise, there is the danger of fire.

Warning: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example, 120 or 230 V) to your home, consult your local dealer or local power company.

Warning: This product install diodes. Do not open the cabinet or touch any parts in the inner mechanism. Consult your local dealer for technical service if the opening is required.

Note: To ensure proper use of this product, please read this User manual carefully and retain for further reference.

Note: This product install diodes. Do not open the cabinet to avoid the unit direct exposure to radiation.

Unit Cleaning: After the unit power is turned off, you can clean the cabinet, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer consent; as such additions may result in the risk of fire, electric shock, or other personal injury.

Locating: Slots and openings in the cabinet are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing the receiver on a bed, sofa, or other similar surface, nor should it be placed over a radiator or heat register.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on. Please take special attentions to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Object and Liquid Entry: Never put objects of any kind into this receiver through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the receiver.

Note: Moisture may be formed on the lens when the unit is suddenly moved from a cold environment or an air-condition room to a warm place or immediately after a heater has been turned on or in a steamy or very humid room. If the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

Parts Replacement: When the unit parts need to be replaced, user should make sure the service technician use the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may put the unit In the risk of fire, electric shock or other hazards.

Safety Check: After all the maintenances and repairs are done, user is required to request the service technician to conduct the overall safety check to ensure the machine is In the proper condition.

Environment Protection 7

Attention!

Your product Is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

Information on Disposal for Users (private households) in the European Union.

Used electrical and electronic equipment must be treated separately and In accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.

*) Please contact your local authority for further details. If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

Information on Disposal for Business Users

In the European Union. If the product is used for business purposes and you want to discard It, please contact your dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling Small products (and small amounts)might be taken back by your local collection facilities.

In other Countries outside the EU.

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

Technical Specification 8

Model: Digital Satellite Receiver DVB-S2
Display Type: LED, 4-digit, Keys 3, micro switch
Slots: Smart Card
Input frequency: 950-2150MHz
RF input connector: IEC 169-24, Female, 250mA
Input impedance: 75 Ω
RF loop connector: IEC169-24, Female, 250mA
Modulation: QPSK (DVB-S), QPSK / 8PSK / H8PSK / :16APSK (DVB-S2)
Decoding: MPEG2 (MP @ ML), AVC / H.264 (HP@L4.1)
Image resolution: 480i, 576i, 480p, 576p, 720i, 1080i, 1080p
Audio Decoding: MPEG-1, 2 Layer 1 & 2
I / O Connections: HDMI, SCART, coaxial digital audio, 2xUSB, :Ethernet
Supply Voltage: ~ 230V / 50Hz
Power consumption: <10W
Stand-by power consumption: <0.5W
Operating temperature: 5 - 40 ° C
Relative humidity: <95%
Net weight: <0.5kg
Case dimensions: 180mm x 110mm x 35mm

Weight and dimensions are not absolutely exact values. Specifications are subject to change (by manufacturer) without notice.