

FREE TO CHOOSE INNOVATIONS



HD DVB-S2 Receiver

X X X



HR8 8664

X X X

X X X

X X X

X X X



HR8 8660

HR8 8659

HR8 8658

HR8 8566v2

X X X

X X X

X X X

X X X



HR8 8556v2

X X X

X X X

X X X

SD DVB-S2 Receiver

X X X



HR8 2610

X X X

X X X

X X X

User Manual



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English

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SAFETY INFORMATION



The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED. INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

English

User Manual

1. All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. All operating and use instructions should be followed.

Satellite dish

XORO DVB Receiver is designed for the connection to a regular satellite dish.

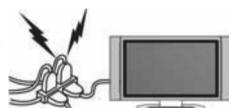
- Please have the satellite dish installed by a technician to insure a perfect function and avoid damage.
- The Satellite dish will have to be grounded.
- If the dish fails to take the precise position, it will cause signal disturbance or other problems. Please have the antenna measured by a technician.
- Please employ high quality antenna cable.
- If the LNB is too old, it might not be suitable for receiving current satellite program. Please choose a LNB which fits all programs. (These LNBs bear often the label "Digital" or "Universal").

Please get informed of the correct dish position and program list from the web page of the satellite operators or from specialized stores.

SAFETY INFORMATION

Power Supply

1. Never touch the plug with wet hands.
2. Do not stand vases etc. on the appliance. Water could seep into the appliance.
3. Keep the appliance away from rain and any moisture.
4. If you want to pull the plug out of the plug socket, always pull directly on the plug. Never pull on the cable as it could tear.
5. Make sure that the power cable is not bent, caught or run over and that it does not come into contact with heat sources.
6. Make sure that the power cable is not wound around the device while in operation.
7. Never place the machine on the power cable while it is being operated.
8. Only use extension cables that are designed for the power consumption level of the machine.
9. Only operate the machine if the electrical voltage stated on the type plate beneath the machine agrees with the voltage on your plug socket. The wrong voltage can destroy the machine.
10. Do not open the appliance.
11. Pull out the mains plug if the appliance is not to be used over a longer period of time.
12. Take care that nobody can trip over the power supply cable.
13. To disconnect the unit completely from the mains, the AC power cable must be unplugged from the mains socket.



Declaration of conformity

Hereby, MAS Elektronik AG declares that the following radio equipment types are in compliance with Directive 2014/53/EU:

XORO HRS 8664
 XORO HRS 8660
 XORO HRS 8660/01
 XORO HRS 8659
 XORO HRS 8659/01
 XORO HRS 8658
 XORO HRS 8556 V2
 XORO HRS 8556 V2
 XORO HRS 2610

The full text of the EU declaration of conformity is available at the following internet address:
www.xoro.de/downloads



SAFETY INFORMATION



Position

1. Do not connect accessories on the player which are not defined by the manufacture.
2. Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
3. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
4. The device is able to show a still image on the TV screen or monitor over an unlimited period of time. This can cause damage to the screen. It is therefore advisable to activate the screen saver. Or switch the player off, if the device is not in use.
5. Do not use the device permanent in the 4:3 mode. This can cause damage to the TV screen.
6. Do not increase the volume when the player is just playing very quiet sections. This could damage the speaker if very loud passages start all of a sudden after the quiet section.
7. Switch the player off by the Off/On switch if it is not going to be used for a longer period of time.
8. Disconnect the main plug during thunderstorms.
9. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.
10. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.
11. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
12. Protect the device against weather influences, moisture and high temperature.
13. Never spill liquid of any kind on the product.
14. Do not expose the device and the remote control to direct sunlight.



Operation

1. Reception of digital broadcast in SD or HD by satellite.
2. Recording DVB-S on USB storage and play back the recorded files from USB storage.
3. Time Shift function with a connected USB storage
4. Playback of supported video, audio and picture files from USB storage.

The device is designed for private household.



AFTER-SALES SERVICES



1. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Please turn to qualified service personnel.
2. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e. If the product has been dropped or damaged in any way, and
3. When the product exhibits a distinct change in performance this indicates a need for service.
4. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
5. Nicotine can damage the electronic components. In case of service regarding too much nicotine, than the warranty/guarantee expired.

Contact of the XORO customer service

Phone: +49 41 61 800 24 24 (Mo-Fr, 11.00am - 5.00pm, German/English)
 E-Mail: support@ersservice.de

ERS GmbH Elektronik Repair Service
 Weidegrund 3/Hall 1
 21614 Buxtehude
 Germany

English



Recycling & Environment



Disposal of electrical and electronic products (waste equipment)

This crossed-out dustbin on the product, the accompanying materials and/or on the packaging means that electrical and electronic equipment must not be disposed of in general household waste. Consumers are required by law to dispose of such equipment separately from general household waste. Old appliances must be taken to the relevant collection points for treatment, refurbishment or recycling in accordance with the statutory provisions. Furthermore, there is an obligation to remove batteries that are not enclosed in the appliance before disposing of the old appliance and to dispose of them separately. The same applies to lamps that can be removed from the old appliance without destroying it. By properly disposing of old products, you contribute to environmental protection and human health. Consumers must take responsibility for deleting any personal data that may be stored on the old appliance before disposing of it.



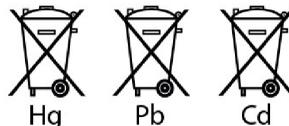
Recycling of paper and cardboard

The material recycling symbol on the packaging board and on the user manual indicates that they are recyclable. Do not dispose of the packaging with normal household waste.



Disposal of batteries

Every consumer is legally obliged to hand in batteries at a collection point of his community or the retailers so that they can be disposed of in an environmentally friendly way.



The disposal of batteries in household waste is prohibited!

A chemical symbol (Pb for lead, Hg for mercury, Cd for cadmium) under the crossed-out wheelee bin indicates that the battery contains more than 0.0005% mercury, more than 0.004% lead or more than 0.002% cadmium.



Notes

Accessoires

Please make sure that the following accessories are included:

- XORO DVB-S2 Receiver
- Remote Control
- User Manual

Notes:

- Please employ only the original accessories.
- Shall any item be damaged or missing, please contact directly the shop where you bought this product.

English

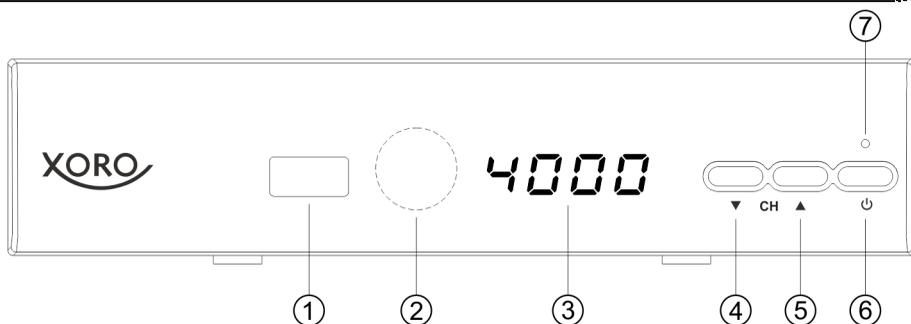


CONTROL ELEMENTS



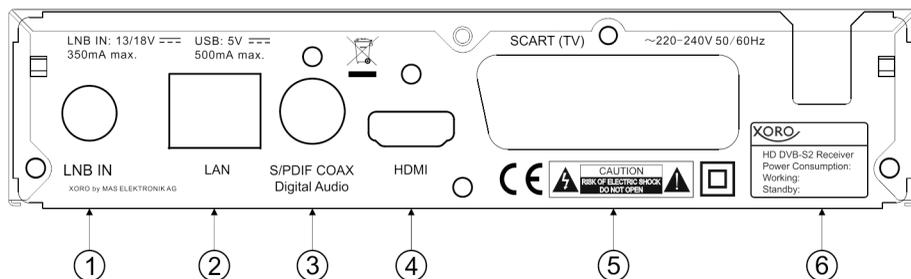
English

Front Panel



1. USB 2.0 port
2. IR receiver
3. LED Display: Shows the program number, clock or status information
4. CH- key: switch to previous channel
5. CH+ key: switch to next channel
6. Power button
7. LED indicator (Green: Power On, Red: Standby)

Rear Panel

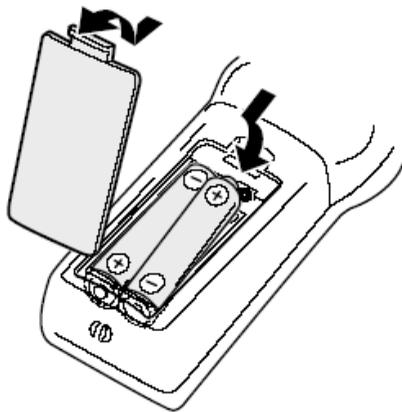


1. Aerial Input (LNB IN)
2. Network Connector (RJ45)
3. Digital audio output (S/PDIF coaxial - not present in HRS 8658)
4. HDMI output
5. TV SCART output
6. Power cord

Remote Control

Insert batteries and operation radius

- Insert the battery into the receptacle of the remote.
- For the best results, aim the remote towards at the player. Stay within 5 meter and angles of 60 degrees or less.
- Remove battery during storage or when you are not using the device for a long time.



Notes:

1. Remove and exchange old batteries. Leaking out battery acid can damage your health and the remote control.
2. Clean leaking out battery acid with a cloth
3. In case of skin contact immediately wash the affected area.
4. Please contact a medic after swallowing the battery or battery acid immediately
5. Seek medical advice if battery acid has been swallowed. In case of contact with your eyes wash out the eyes and seek medical advice.



Remote Control



Buttons



-  Buttons of the remote control
-  **Power** (on/off)
- SUB-TITLE** (subtitle)
- AUDIO** (change sound track)
- MUTE** (sound on/off)
- EPG**
- GOTO** (start play back from a certain point defined by time)
- PAGE** (page up/down)
- TTX** (videotext)
- REPEAT** (Repeat)
- MENU** (to access main menu)
- CH+/CH-**(change channel, select menu up/down)
- EXIT** (quit menu, to the higher menu)
- VOL+/VOL-**(change volume, select menu right/left)
- FAV** (to access favorite list)
- TV/RADIO** (switch between TV and Radio)
- OK** (confirming selection, to access program list)
- 0-9** (Numerical buttons)
- RECALL** (to previous program or higher directory)
- INFO i** (to access information page)
- ◀◀ ▶▶** (fast rewind/fast forward)
- ◀◀ ▶▶|** (previous/next file)
- ▶**(start play back)
- ||** (Pause)
 - (Stop playback, access Media player)
 - (Recording*)
- PVR** (Display recorded files*, red button)
- V-FORMAT** (change HDMI solution , green button)
- ASPECT** (change aspect ratio, yellow button)
- TIMER** (display timer list, blue button)

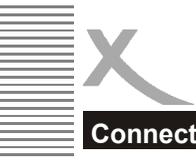


Notes:

Some buttons function only as described above in the corresponding mode. For example: the GOTO button and the Repeat button function only in media player mode. Please take note of further descriptions in the manual and the notice on the screen.

Only one remote control be delivered in your accessories.

(*): Only available for the models which support PVR.

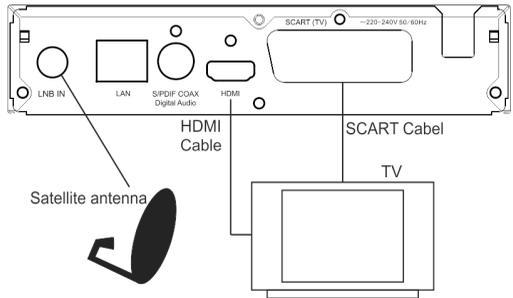


Connection

Connecting to the TV

General information

1. Assure that the device is switched off and unplugged.
2. Read the manual of your TV and attend to the safety instructions.
3. Connect the power cable at last with an electronic socket.



The DVB-S2 receiver could be connected either through HDMI or SCART to TV. Please connect the receiver through HDMI if possible. The TV could only display the signal in high definition quality through HDMI output.

HDMI:



Connect the HDMI output of Receiver to a free HDMI input of the TV. Please read the manual of your TV to select the HDMI input. Generally the TV does not switch automatically to the HDMI input upon connection. A HDMI cable is necessary for this connection.

SCART:



Connect the TV SCART output of Receiver to a AV input of the TV. Please read the manual of the TV to select the SCART input. Generally the TV does not switch automatically to the SCART input upon connection. A SCART cable is necessary for this connection. It is not included in the delivery of the receiver.

Notes:

- The Receiver is designed for TV with 16:9 as aspect ratio. Please refer to the page 32 how to set a TV with aspect ratio 4:3 to fit the receiver. It is also described there how to change the HDMI resolution and signal type under the SCART connection.
- Please employ high quality cables. Low quality cables (especially up 1,5 m length) might cause picture failure or make an image transmission impossible. Poorly shielded cables might result in "double image" or disturbing sound.

English



Connection



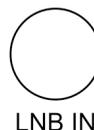
Connection to satellite dish

Connect the cable of your satellite dish to the Antenna input LNB IN of the Receiver.

LNB IN: 13/18V ---
350mA max.

Notes:

- Screw the so-called F plug together with the LNB IN.
- Please make sure to avoid short circuit at the F plug.
- Employ only high quality antenna cables . Low quality antenna cables might cause disturbance



Connection to a Hi- Fi system

A coaxial cable is necessary for the S/PDIF signals for the digital connection to a Hi-Fi system. This cable is not included in the delivery of this receiver. Connect the S/PDIF out put with the S/PDIF input of your Hi-Fi system. Please refer to the manual of the Hi-Fi system to select the audio input.

Notes:

The Receiver could output digital signals in PCM-(Stereo) or AC3-Bitstream. If your Hi-Fi system provides no sound for programs with AC3 sound track, please refer to page 35 to change the out put format of the S/PDIF out put.

Connecting to USB storage

The USB port is on the front side of the Receiver. It takes the receiver under circumstances some time to recognize the USB and get ready for further operation.

Please remove the USB storage only after playback processes are completed.

Following USB devices will be supported:

- USB storage
- Max. capacity 2048B
- File system: FAT32, NTFS
- MBR-Partition Style

Notes:

- There are a variety of USB storages on the market. Not all of them conform the specification of USB storage. If your USB storage could not be read by the Receiver, please try another USB storage.
- If a USB device could not be read any more, please carry out a data storage medium analysis with your computer or format the storage again.
- USB storages requiring higher electric current than 500mA (0,5A) do not conform the specification of USB storage. These USB storages could possibly not work smoothly together with Receiver.
- Please always save all data on the USB before connection to the Receiver.

Connecting to Internet

If you need open Network Apps, please connect internet cable to LAN port.



Initial Installation

Initial Installation

The XORO installation menu will be displayed by initial operation of the DVB Receiver. This menu contains four options:

1. OSD Language
2. Country
3. Channel search
4. Load the pre-inst.

Navigate with the arrow keys **CH+** and **CH-** to high light the option and make the selection with the **VOL-** and **VOL+** buttons.

OSD Language

Choose the menu language.

Country

Select the country where you use the DVB Receiver.

Channel Search

Please select "Channel Search/Satellite Setting" to define further parameters for a scanning, if your satellite receiving system fulfill following criteria:

- System with rotatable antenna
- System with more than one antenna or LNB (DiSEqC)
- System with nonstandard components

Most of the customers could complete the installation by selecting "load the pre-inst."

Load the Pre-inst.

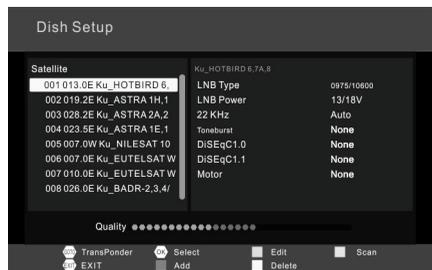
A program list of the satellite ASTRA 19.2° is saved in the factory firmware. German TV programs top this list.

In most cases, the installation is completed with loading the program list.

Select the OSD language and country and decide whether to load the pre installed program list. Press **OK** to confirm.

- The first TV program will be shown on the screen after loading the pre programmed list. If there is no TV program to be seen, please check the cable connection, Antenna Set up and carry out the channel scanning.
- If you have chosen not to take the pre installed list, there appears a "Dish Setup" menu on the screen.

For the case there appears no "Installation Guide" menu after connection and power on, please read the page 35 to reset the device.





Initial Installation



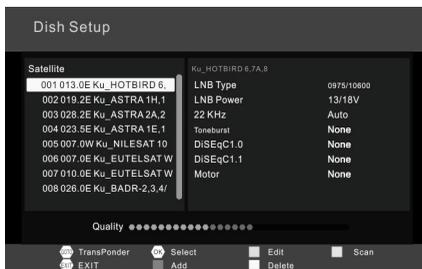
Dish Setup-preparation

Preparation:

You will have to be informed of following points to make a successful channel scanning.

- Towards which satellite does your antenna orient?
- If you have more than one antenna or one antenna with more than one LNB, you will have to know which type of switch (Toneburst or DiSEqC) is employed and to which port is each Antenna LNB connected.
- For a Unicable/SCR EN50494, you will have to know which IF-Channel is available and its corresponding Frequency.

Please ask the installer, if any of the parameter is not known. If you live in a rental house or apartment, please ask the renter.



English

Example for Germany:

The most satellite antennas orient satellite ASTRA 19.2° and have a “universal” or “Digital” LNB. We recommend the pre installed list in the case.

If you would not like to use the pre programmed list, the common setup for ASTRA 19.2° is as following:

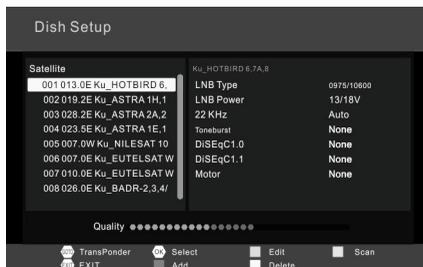
Satellite: 019.2E Astra 1H.
 LNB Type: 09750/10600
 LNB voltage: 13/18V
 22KHz: AUTO
 Toneburst: None
 DiSEqC 1.0/1.1: None
 Motor: None



Initial Installation

Dish Setup-Procedure

On the left side of the screen there is a list of satellites for which the DVB Receiver is pre programmed. Settings of the chosen satellite is displayed on the right side.



Process:

- Select the first satellite to be set up with CH+/CH
- Press the OK button. The chosen satellite is marked with a hook, confirming this satellite will be considered in the coming channel scan.
- Press the button **VOL+** to access to right side.
- Select the option with **CH+/-** and change the parameter with **VOL+/-**
- Press **Menu** after defining all parameters for this satellite to get back to the left side.
- If your satellite system can receive signals from a number of satellites, select a further satellite with **CH+/-**. Press OK and define the parameter on the right side.
- Repeat this procedure for all satellites available for your receiver.

Notes:

- After a correct setting, an approximate value of the signal quality will be shown on the lower part of the menu.
- If a satellite is missing on the list, press the **RED** button. A dialogue window appears, input the value for longitude, East/West and frequency, and choose "Blind Scan" in the coming channel scan. If you add a satellite to the list, there will be no display of the signal quality for this satellite, in spite of correct setting. Signal quality could only be displayed for satellites with pre installed transponder lists.
- Press **GOTO** to display the Transponder of the chosen satellite. Add new transponder with the **RED** button and mark the transponder for channel scan with **OK**.



Initial Installation



Dish Setup-explanation of the parameters

LNB Typ: define the oscillator frequency for your LNB . Please take the correct value from the manual of your LNB (standard:09750/10600)

If you have a Unicable/SCR EN50494, select LNB type Unicable (A or B, A is generally the correct choice by a Unicable system for satellite reception). Choose a free channel (IF channel) and the corresponding frequency. Please refer to the manual of your Unicable system. Ask your renter for the free channel, if the connection is provided in the rental house.

LNB Voltage: This parameter defines the voltage of the antenna, this voltage decides signal from horizontal or vertical polarized transponder will be received. The setting will only have to be changed in very rare cases. A false setting will result in missing program or no signal reception at all. (standard:13/18V)

22KHz: The receiver can switch the LNB with 22 KHz signals for the reception of another frequency band. The setting will only have to be changed in very rare cases. A false setting will result in missing program or no signal reception at all. (standard: Auto)

Toneburst: Tone burst switcher has two input ports, enabling the connection of 2 antennas or LNB to the receiver. If you have a Tone burst switcher, you will have to select one of the both connections (A or B) for the satellite chosen on the left side.

DiSEqC: DiSEqC switcher has up to 16 input ports enabling the connection of multiple antennas or LNB to the receiver. If you have a DiSEqC switcher, you will have to select one of connections for the satellite chosen on the left side. Please check which version (1.0, 1.1) could be supported in the manual of your switcher.

Motor: Rotatable Antennas require extended configurations. We recommend professional installation from a technician. Please set up according to your antenna. You can open further set up windows with the **RED** and the **GREEN** button.

After the set up has been done for all reachable satellites, please press the **BLUE** button to open the menu for channel scan.



Initial Installation

Channel Search

There appears a window showing "Channel Search" upon pressing the **BLUE** button on the menu of the Satellite Setting.

On this Window you can make three entries to affect the scan result.

Search Mode:

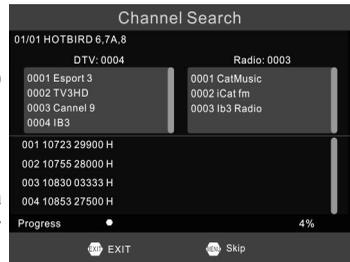
- **Standard:** The receiver scans channels according to a pre programmed list. This search process goes quickly but without being able to find programs on new transponders.
- **Blind search:** The receiver scans every possible frequency. It takes a little bit more time than standard scan. However it is possible to find programs from unknown transponders.
- **Network:** The receiver scans channels according to a pre programmed list. The frequency of a new transponder could be found out through analysis of the known transponders. The scan process is shorter than "blind scan", but there might be possibly missing programs.

Please employ "Blind Scan". It takes a little bit longer, but will result in a complete program list. If you have added a new satellite on the menu of Satellite Setting, please employ "Blind scan", for there is no transponder list available for the newly added satellite. There is no "Blind scan" option in case of UniCable system.

Encrypted:

- **All programs:** both free and encrypted programs (Pay TV) will be added to the program list during the channel scan.
- **FTA (free):** The channel scan saves only free programs.

The XORO DVB Receiver can not decrypt Pay-TV programs. Please select "FTA" (free programs), so that you will get a shorter program list and save some time in sorting the programs.

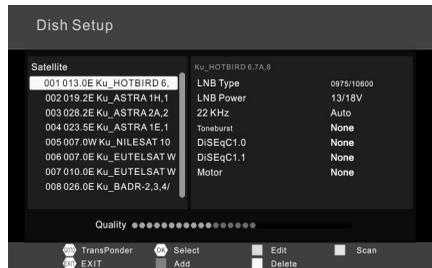


Service Type:

- **All:** The channel scan saves both TV and Radio programs.
- **DTV:** The channel scan saves only TV programs.
- **Radio:** The channel scan saves only Radio program.

Press the OK button to start the Channel scan.

After the channel scan is completed, live picture of the first found channel will be shown on the screen.





Important keys and their functions

Switch Channel

To switch program please press the CH+/CH- buttons or input the number of the wished program with the numerical buttons 0-9 on the remote control.

Channel List

Access the Channel List by pressing **OK**

- ▲/▼** Next/previous program
- OK** Activating the chosen program
- PAGE+/-** Next/previous page
- TV/Radio** switch between Radio- and TV channel list
- RED Button** search a channel after the name
- GOTO** Choose a satellite/show all programs
- EXIT** Exit the program list



English

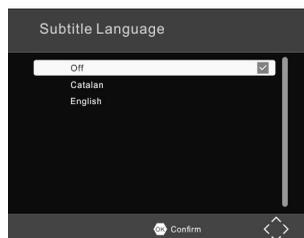
Favourite

If you have defined favourite groups, you can access this list by pressing the **FAV** button. The operation on the favourite list is as following:

- FAV** display favourite list
- ◀/▶** Next/previous favourite list
- ▲/▼** Next/previous program
- OK** Starting the chosen TV program
- EXIT** Exit favourite list

Subtitles

Press **SUB-T** to enable subtitles. Select a language for the subtitle with **▲/▼** and confirm it with **OK**. If the program contains no subtitle, there will be only one option: OUT. To quit the "Subtitle language", press **EXIT**.





Daily Use

Important keys and their functions

Audio settings of TV programs

Access the audio settings by pressing **AUDIO**.

Select a language and an audio track with ▲/▼. To confirm, press **OK**.

Press **EXIT** to exit this menu.



Teletext

The teletext is activated via the **TTX** button. You may use the numerical buttons 0-9 on the remote control for a direct entry of the wished page.

To quit the teletext page press **EXIT**.



Mute

Press the **MUTE** button to switch off the tone. Press the **MUTE** button once more, the tone will be turned on again.

Change Volume

To increase or decrease the volume press the ◀/▶ (**VOL+/VOL-**) button.

If you output DolbyAC3 or other surround sound formats as Bitstream through HDMI or S/PDIF, the volume is not regulated by the receiver.

Information

You will have the access to various of information by pressing the **i** button once or a multiple of times.

Aspect Ratio

During a live program you may change the Aspect ratio without opening the main menu. Press the **ASPECT** button and the Aspect Ratio will be changed with each pressing. (See also Page 32)



Important keys and their functions

EPG

Press the EPG button to display the program guide.

OK

the marked program will be taken over in the Timer programming

INFO

display the Timer list

▲/▼

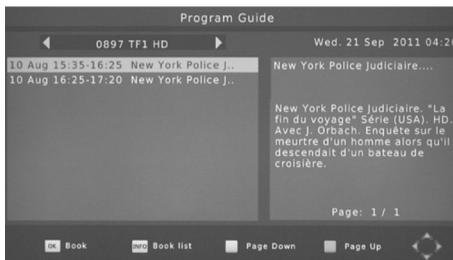
select a TV program

◀/▶

switch program

EXIT

quit EPG



English

Timer Programming on EPG

Select the program to be recorded with the ▲/▼ buttons and press OK. The program number, time of begin and end will be taken over in the window "Timer New".

Further settings on this window are **Repeat** and **Mode**. The option Repeat defines whether the program will be recorded once or regularly. The option Mode will have to be set for recording as RECORD. Press OK to save the setting. The programmed broadcast appears now on the timer list. Press EXIT to close a dialogue window. Press EXIT repeatedly to quit EPG window.



Notes:

- Please do not forget to connect a USB storage (see page 15)
- Option Mode: Select RECORD to record a program on the USB storage. Select VIEW to have the receiver switched on at a given time without recording the program on USB.



Recorder*

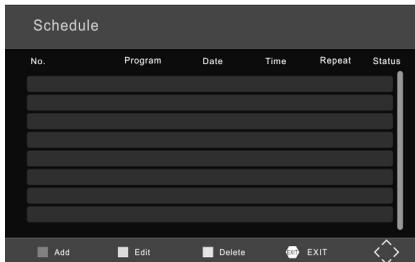
Immediate recording and Timer programming, Recording list

Recording*

If you want to record the current TV program simply and quickly, first connect a USB memory to the USB port and then press the **•** button. Press the **•** button once more to define the concluding time of the recording. You can stop the recording by pressing the **■** button. Confirm the safety query with the **OK** button.

Record programming*

You can program a recording during the live broadcast. Press the **BLUE** button to display the Timer list. Press the **RED** button to display the setting window for the new Timer. Please refer to the setting details on Page 23.

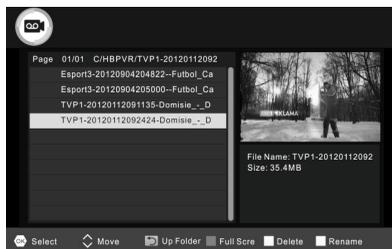


Recording List*

Press the **PVR** button to show all recorded broadcasts.

- ▲/▼ Next/previous recorded file
- OK playback the chosen recorded file in preview window
- RED Switch full screen/preview
- GREEN Rename the recorded file
- YELLOW Delete the recorded file

- Playback
- ▶▶ fast forward
- ◀◀ fast rewind
- || Pause, press again to resume playback
- EXIT/STOP stop the playback, switch to the recording list



Rename recorded files

Choose a recorded file from the list to be renamed and press the **GREEN** button. An OSD keyboard appears on the screen. Choose letters for the new name with the navigation buttons and confirm each letter with the **OK** button.

After entry of the complete name, navigate to the **OK** field and press the **OK** button.

Delete recorded files

Choose a recorded file from the list to be deleted and and press **YELLOW**. Now the recording is marked with a checkmark and press the **OK** button. Confirm the safety query with the **OK** button.

(*): Only available for the models which support PVR.



USB Media Player



USB Media Player

The USB media player plays back movie, photos, and music files. There are two ways of accessing the media player.

- Open the main menu with the MENU button. Press ◀/▶ repeatedly until USB menu is shown on the screen. Press ▲/▼ to choose Multimedia and confirm with OK.
- Press the STOP button during live broadcast.

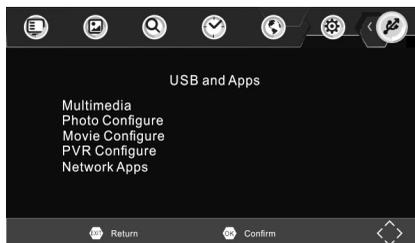
The media play is started. You have these four options:

- Music
- Photo
- Movie
- PVR(*)

(*): Only available for the models which support PVR.

Supported file formats

Pictures (JPEG, BMP), Music (MP3, WAV) or video files (MPEG-1, MPEG-2, MPEG-4) and more.

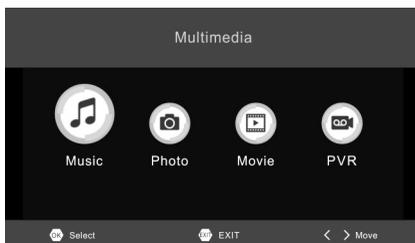


Note

Due to the legal requirements of CE-conformity, the customer is asked to only connect USB Sticks to the USB port.

If you want to play music, videos or pictures von USB media connect the USB media, press **MENU** and choose *USB* with ◀/▶. Enter the USB menu with **OK**.

Now choose *Multimedia* with ▲/▼ and enter with **OK**.





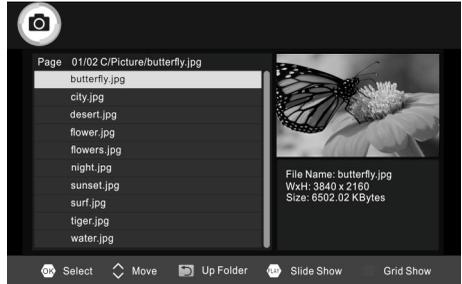
USB Media Player

Photos

After initializing the USB media the directory structure is shown. Choose the directory with ▲/▼ and enter with **OK**.

If there are pictures in this directory, they are listed in the file browser and the preview of the first picture is shown on the right.

- ▲/▼ Next/Previous folder or file
- OK** display a photo or open a folder
- Play (▶)** Start slide show (all pictures in the directory)
- go to higher directory
- GOTO** Show pictures in small previews
- EXIT** back to multimedia menu



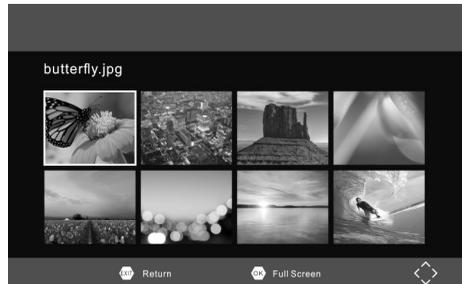
Preview Window

- ▲/▼ Next/Previous picture
- ◀/▶ Next/Previous picture
- OK** Start Slide show
- EXIT** quit the preview window

Display Photos

Start the slide show with **PLAY** or **OK**. The slide show will proceed according to the settings in the USB menu.

- ▶▶ Next picture
- ◀◀ Previous picture
- RED** Zoom picture
- Green** Rotate picture 90° in counter clock wise direction
- YELLOW** Rotate picture 90° in clockwise direction
- i** Show information of the picture like file name, resolution and file size
- EXIT** Exit photo display
- EXIT** Exit photo display



Music playback during the photo display

It is possible to play music while browsing in the pictures. Choose a music file before you go to the picture browser.

Supported formats

The supported picture formats are: JPEG, BMP.

Notes: Displaying photos in the maximal resolution might take much time.



USB Media Player

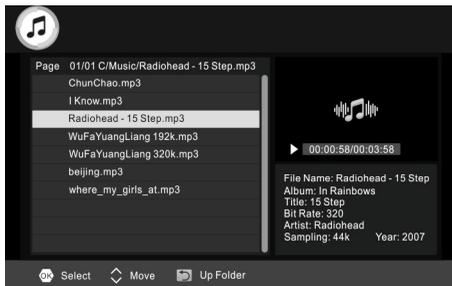


Music

After initialising the USB media the directory structure is shown. Choose the directory with ▲/▼ and enter with OK.

If there are music files in this directory, they are listed in the file browser.

- OK / PLAY** Playback a music file
- STOP** Stop the playback
- ▶▶|** Next track
- |◀◀** Previous track
- ||** Pause
- ▲/▼** choose a folder or a file
- REPEAT** Repeating single track or directory
- EXIT** back to multimedia menu



English

Supported formats

- Format: MP3
- Sampling Frequency: 32 - 48 kHz
- Bitrate: 32 bis 320 kb/s

Movie

Notes:

- The maximal resolution of the movie file is 1920 x 1080 pixel.
- The file name should not contain more than 15 letters.
- If a character is not recognized correctly (for example special characters), there appears at the place of this character an underline “_”.
- Following video containers are supported: AVI, MKV, MP4, MPG, VOB, MOV etc.
- Various codecs are supported. They will have to be created according to the established standards. For MPEG-2 applies ISO/IEC13818 and for MPEG-4 applies ISO/IEC 14496. Other wise there might be error at the playback.

Please take note of the supported formats on Page 29.

There exist a variety of video codecs, audio codecs, video containers and PC programs generating these files. it is possible that some video files are not supported.



USB Media Player

Movies

After initializing the USB media, the directory structure is shown. Choose the directory with ▲/▼ and enter with **OK**.

▲/▼	Next/Previous folder/file
OK	Playback a file / Open a directory
RED	Full screen display to a higher directory
EXIT	back to multimedia menu

If you have selected a movie and started the playback with **OK**, the movie is shown in the preview window on the right. You can switch to full screen with **RED**. You can alternatively press **PLAY** to playback the movie directly in full screen .

OK	Playback in preview window
PLAY	Playback in full screen
RED	Switch preview / full screen
i	Access information such as play back time/duration, file name, file size, resolution, picture frequency
AUDIO	Switch audio track
SUB-T	1x display subtitle alternatives, 2x change subtitle setting
MENU	back to file browser (the movie continues in preview window) back to file browser (the movie continues in preview window)
GOTO	Jump to a certain (self defined) time
◀◀/▶▶	Fast forward/backward
I◀◀	Previous movie
▶▶I	Next movie
	Pause
STOP	Stop the play back
REPEAT	Repeating modes (Single track or all files in a directory)

Resume play back

By some file formats the receiver can save the position where the previous play back is stopped. If the receiver has saved the position, there will appear by restart on the upper edge of the screen the alternatives: Continue/[EXIT]: break

- Continue: the play back starts from the saved position
- [EXIT]:break: the play back starts from the very beginning of the file

You can choose one of the options with the ▲/▼ buttons. Confirm the selection with **OK**.



USB Media Player



Supported Formats

Extension	Container	Video Codec	Maximal Resolution	Audio Codec	Profile
MPG, MPEG	MPG, MPEG	Mpeg 1,2	1920x 1080/30P	MP2,MP3	Main
TS	MPEG2-TS, H264-TS	MPEG2, H.264	1920x 1080/30P	MP2,MP3	Main
MP4	AVI, MP4	MPEG4, Xvid 1.00, Xvid 1.01, Xvid1.02, Xvid 1.03, Xvid 1.10-beta 1/2, H.264	1920x1080/30P	MP3	H264: Main Profile and High Profile @Level 4.0 MPEG4: Simple Profile and Advanced Simple Profile @Level 5
MKV	MKV	H.264, MPEG 1,2,4	1920x1080/30P	MP2,MP3	H264: Main Profile and High Profile @ Level 4.0 MPEG4: Simple Profile and Advanced Simple Profile @Level 5
AVI	AVI (1.0,2.0), DMF0,1,2	MPEG2, MPEG4 Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2 H.264	1920x1080/30P	MP2,MP3	MPEG2: Main Profile MPEG4: Simple Profile and Advanced Simple Profile @Level 5

Notes: GMC will not be supported. Maximal Bitrate: 20 Mbit/sec. Aspect Ratio: 4/3, 16/9.

Specifications subject to mistakes and changes.

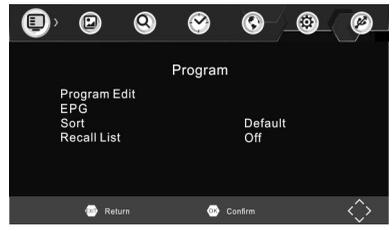


Settings

Main Menu

Press **MENU** for the main menu. The submenu are:

- Program
- Picture
- Channel Search
- Time
- Option
- System
- USB and Apps



English

Program

Notes:

The standard password is 000000.

Program Edit

You can sort, edit, delete, rename the program and build favourite groups here.

Move the program with ▲/▼

- Select a program with ▲/▼ to be moved
- Press the **RED** button to mark the program
- Choose a position for the marked program with ▲/▼
- Press OK to move the program to the chosen place

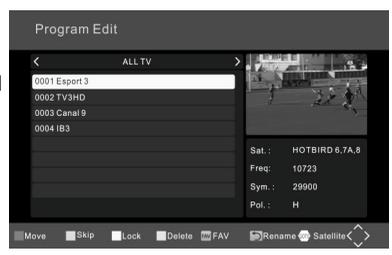
Notes: You can mark multiple programs with the **RED** button.

Move the program through input of new program number

- Select a program with ▲/▼ to be moved.
- Press the **RED** button.
- Input the new position with the numerical button 0-9.
- Press ok to move the program to the given place.

Delete

- Choose a program to be deleted with ▲/▼.
- Press **BLUE**. A security query appears.
- Press OK to confirm deleting the program.





Settings



Program

Lock channels

The receiver will ask for the password before display a locked program.

- Select a program with ▲/▼ to be locked.
- Press the **YELLOW** button. The chosen channel is highlighted with a lock symbol.
- Press the **YELLOW** button again to unlock the channel.

Skip Channels

Programs marked with the Skip symbol will be skipped in channel switch with the CH+/- buttons. They could only be accessed through entry of program number with the numerical buttons 0-9.

- Select a program with ▲/▼ to be "skipped".
- Press **GREEN**. The chosen channel is marked with "SKIP".
- Press **GREEN** again to withdraw.

Favourites

The receiver has four pre defined favourite groups (movie, news, sport, music). You can categorize a channel as any favourite group and a channel may belong to multiple groups.

- Select a program with ▲/▼ to be categorized
- Press **FAV** to access the favourite menu.
- Select a favourite group with ▲/▼
- Press OK. The channel is marked with a "Star" symbol.
- You can choose multiple favourite groups here. Power off at this time leaves the configuration of favourite groups unsaved.
- Press EXIT once to close the Favourite window

Rename Channels

Choose a channel to be renamed with ▲/▼ and press **RECALL**. There appears a key board. Input letters of the new name with ◀/▶▲/▼ confirm each letter with the **OK** button. After completion of the entry navigate to the **OK** field and confirm with the **OK** button.

Notes:

- To switch between TV and Radio, press the **TV/Radio** button.
- Press GOTO to list programs of all satellites or one certain satellite.
- Quit the Program edit menu with **EXIT**. The configuration will be saved.



Settings

Program

Sort Channels

This option sorts the channels on the channel list according to criteria as encryption, Frequency, etc.

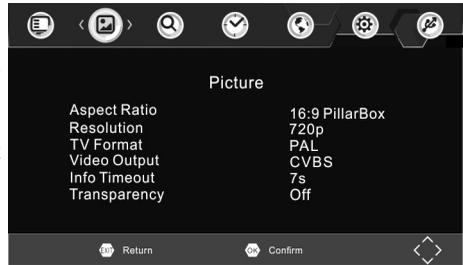
Picture

The previous sort is replaced.

Aspect Ratio

This setting define the picture format of your TV and how the content with different Aspect Ratio be adapted for your TV.

- Auto (for 16/9 TV. 4:3 or wide screen content will be full screen displayed with the picture distorted. Further adaption will be done by the TV.)
- 4:3 Pan Scan (for 4:3 TV. Content with different Aspect Ratio will be possibly full-screen displayed, without distortion but with information lost.)
- 4:3 Letterbox (for 4:3 TV. Content with different Aspect Ratio will be displayed without distortion but with "black bar".)
- 16:9 Pillar box (for 16/9 TV, Content with different Aspect Ratio will be displayed without distortion but with "black bar".)
- 16:9 Pan scan (for 16/9 TV. 16/9 Broadcast will be full-screen displayed without distortion. 4/3 Broadcast will be displayed without distortion but with the picture enlarged. This setting is especially suitable for 4/3 Letter box programs to reduce the "black bar".)



You can switch among these alternatives with the **ASPECT** button during live program.

Resolution

Define the HDMI output resolution

- 576i (PAL) / 480i (NTSC)
- 576p (PAL) / 480p (NTSC)
- 720p
- 1080i
- 1080p

Note:

Please note the manual of your TV and the correction resolution.

TV Format

Define the colour system for the AV output (PAL or NTSC) and frame rate for the HDMI output (50 Hz or 60 Hz).

Video Output

You can define the signal type at the SCART port. Generally RGB offers the best picture quality. Please note the manual of your TV.



Settings



Channel Search

Dish Setup

See page 17

Save/load channel list

With this option you can save the channel list on a USB (export) or load the channel list from the USB storage (import).

Import: The receiver lists all available data. Choose the file to be installed and confirm with OK. The message "load Database successfully" shows that the program list has been installed correctly.

Export: Save the current program list on the USB storage. The file contains following name: HB_DATABASE_X_Y.DBM. „X“ suggests the month. „Y“ suggests the date.

The receiver sets the time automatically, as soon as a satellite program is received. The Time Zone

Time

will have to be set correctly so that the receiver could calculate the local time properly.

Time Zone setting

Auto The receiver set the Time Zone automatically

Manual You can define the Time Zone.

Time Zone

You can define the Time Zone as long as the Time Offset is given as "Manual". For Germany it is MGZ+1, and it is MGZ+2 during the European Summer Time.

Auto Standby

To save energy according the the EU Regulation (EuP), the receiver switches off after a certain time without user interaction (such as pressing the buttons etc.).

Clock

If set to on, the Receiver will show the clock in the Display while it is in standby.





Settings

Option

OSD / Subtitle Language

Define the OSD / subtitle language.

Note: Many broadcasts do not contain subtitle information.

Audio Language

Define the language to be spoken.

Digital Audio

You can define here the format of audio signals at SPDIF (COAX) and /or HDMI output.

PCM: Digital audio output (HDMI and SPDIF COAX)

RAW: If a broadcast or a video file contains a AC3 sound track, the tone format will be outputted through SPDIF(COAX) and HDMI. If you get no tone, please choose "PCM" .

Attention: The receiver could only decode AC3 surround sound and out put it as analogue or PCM stereo. Other surround sound could be outputted under circumstances as Bitstream (RAW) though SPDIF or HDMI. In this case the analogue and PCM stereo tone are not available.

Please use the **AUDIO** button to choose the AC3 Sound track of a program, if it is available. If you output the AC3 or other surround sound formats as Bitstream (RAW) through HDMI, the receiver could not regulate the volume. The volume of the SPDIF (Coaxial) output could not be changed with the **VOL-/VOL+** buttons.

LED Dimmer

You can select brightness of LED screen on the front panel.





Settings



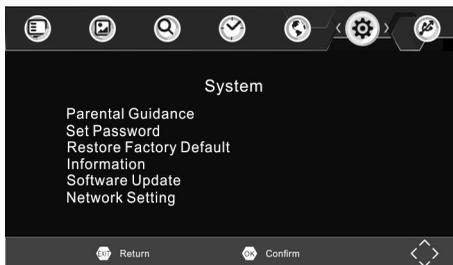
System

Parental Guidance

You can define here whether a program will only be displayed after a correct entry of the password. Note: Information on the age limit of a DVB program is not broadcasted in Germany.

Set Password

You can change your password here. At first you have to confirm the old password (standard 0 0 0 0 0 0). After confirming the old password type in the new password and repeat it. If all data was correct the new password is active.



Note: For the case the password is forgotten, you can use the super password to set a new password.

Super Password: **8 8 8 8 8 8**

Restore Factory Default

You can cancel all settings and changes by restoring the factory default. Choose this option and input the password.

Note: All settings will be cancelled. You will have to go through the channel scan once more.

Information

Access information on software and hardware.

Recall List

↶ You can change the function of the **RECALL** button. If "off" is given, the receiver displays the last program upon pressing the **RECALL** button. IF it is set "on", a list of programs seen at last will be displayed upon pressing **RECALL**.

Software update

USB upgrade

If an update is necessary, the update software and the update instruction are to be found on www.xoro.de. Please install only the suitable XORO firmware. Installation of a false firmware may make the receiver unusable and void your claim on warranty.

Network Setting

Line Type:

The receiver only support LAN, this option can't be changed.

IP Setting:

Normally, please set DHCP to "On" to get IP address automatically. Status will display "Internet" if network is available.



Settings

USB and Apps

USB Media Player

Opens the multimedia Player (see page 25).

Photo Configure

Configure the playback and Slideshow of picture files

Slide Time

Define the duration for every picture in the slide mode.

Aspect Ratio

- Keep (display without distortion)
- Discard (full screen display with distortion)

Subtitle Set up

This setting concerns only the display of an external subtitle. The options are:

Subtitle Specific

Define the size of subtitle in media player.

Subtitle Background

Define the background of the subtitle in media player.

Subtitle Letters

Define the colour of subtitle letters

PVR Configure*

Recording device

This menu shows the information (size and file system) on the USB. If the USB storage has multiple partition, you can choose a partition with ◀/▶. Press OK to confirm.

The TMS storage sets the maximal capacity to be used for Time Shift Function.

Format

Choose a USB storage or partition to be formatted at "Format".

Choose at "File System" the wished file system.

Return to Format and confirm with OK.

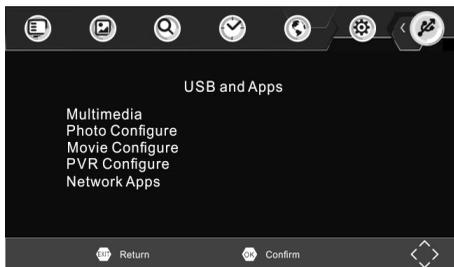
Attention:

All files and directories will be lost during the formatting process. Please do not format a storage with important information.

(*): This option only available for the models which support PVR.

Network Apps

Network Apps are pre-installed on the receiver. It is not possible to install more Apps by yourself.



English



Troubleshooting



Troubleshooting

Symptom	Correction
No DVB-S reception / serious distortion by mosaics or artefacts/ freeze pictures	<ul style="list-style-type: none">• No DVB-S reception in your region.• Realign the dish. Please pay attention to the direction of the satellite.• Please use a bigger dish.• Retry the Auto Scan.
No power	<ul style="list-style-type: none">• Plug the power cord into the outlet tightly and turn on the power.
Can not scan programs	<ul style="list-style-type: none">• Adjust the dish• Refer settings for searching
No picture / no coloured pictures	<ul style="list-style-type: none">• Control the connection to the TV set.• Control the video output mode in the setup.• TV channel or program is scrambled
Remote control does not work	<ul style="list-style-type: none">• Change the batteries.• Operate within normal range (max. 5 meters, 30 °)• The sensor is pointed to by bright light.
No sound	<ul style="list-style-type: none">• Cancel Mute. Press MUTE button• Increase volume. Press VOL+ button• Pay attention to connection to TV set or amplifier.
Audio / Subtitle without function or can no choose	<ul style="list-style-type: none">• Change audio track (press AUDIO button)• Change subtitle track (press SUBTITLE button)• Other audio track is not supported• Subtitles are not supported by broadcaster
No Recording	<ul style="list-style-type: none">• No USB memory are connected.• No free space on the storage.
Recording has jerkings or other mal functions	<ul style="list-style-type: none">• The connected storage is too slow.• Please control the reception quality of the dish and align them for getting better quality.



Specifications

Specifications

General	
Voltage	~ 220 - 240V 50/60Hz
Consumption	< 6W* (average) / < 0.5W (Standby)
Size	168 x 40 x 118 mm
Receiver	
Frequency	950 - 2150 MHz
Impedance	75 Ohm
Video Decoder	
Standards	MPEG4 AVC/H.264 HP@L4/MPEG 2 MP@HL
Aspect Ratio	4:3 / 16:9
Resolution	up to 1920 x 1080p
Conditions of Operation	
Temperature of Operation	0 - 40° C
Humidity	5 - 90% (non condensing)

* Depending on electrical consumption of the USB connected.

Note:

Weight and dimensions are not absolutely exact values. Specifications are subject to change.

English



Warranty



Warranty

In case the products delivered are not free from defects in material or workmanship, MAS Elektronik AG has the right to either repair or replace the defective product at its choice. MAS Elektronik AG manufactures and repairs goods using components which are new or equivalent to new in accordance with industry standards and practice. The warranty for wearing parts (e.g. rechargeable batteries) is limited to 6 months.

In case the device is equipped with internal data storage (e.g. hard disc drive, Flash drive), the customer is responsible to backup his data before sending the device. MAS Elektronik AG is not liable for any data loss on returned devices. MAS Elektronik AG reserves the right to reset returned devices to factory defaults. Please note your personal settings for this reason.

MAS Elektronik AG is not liable for any accessories not belonging to original package content such as DVDs, hard disc drives, Flash storage devices, batteries, etc.

This limited warranty covers the warranty requirements set by authorities in your country. This limited warranty only is valid in the country the product was purchased.

This limited warranty does not cover finishes, accessories or batteries, nor does it cover damage resulting from accident, misuse, abuse, dirt, water, battery leakage, tampering, servicing performed or attempted by unauthorized service agencies. This limited warranty does not cover damages resulting from firmware upgrades. Only in case of firmware upgrades needed to add functions promised at time of purchase, such damages are covered by this limited warranty. For a correct and frictionless completion of warranty or repairs you need a RMA No. You may obtain a RMA on the internet at www.xoro.de or by telephone.

Please send the device in its original packing material, all standard accessories and a copy of the invoice, a description of defect and the RMA No. to following address. Please note the RMA number clear and in large numbers on the outer package.

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