



4K BOX HD61

4K UHD Satellite S2X Twin Tuner / COMBO
Linux Receiver

4K UHD



HDMI

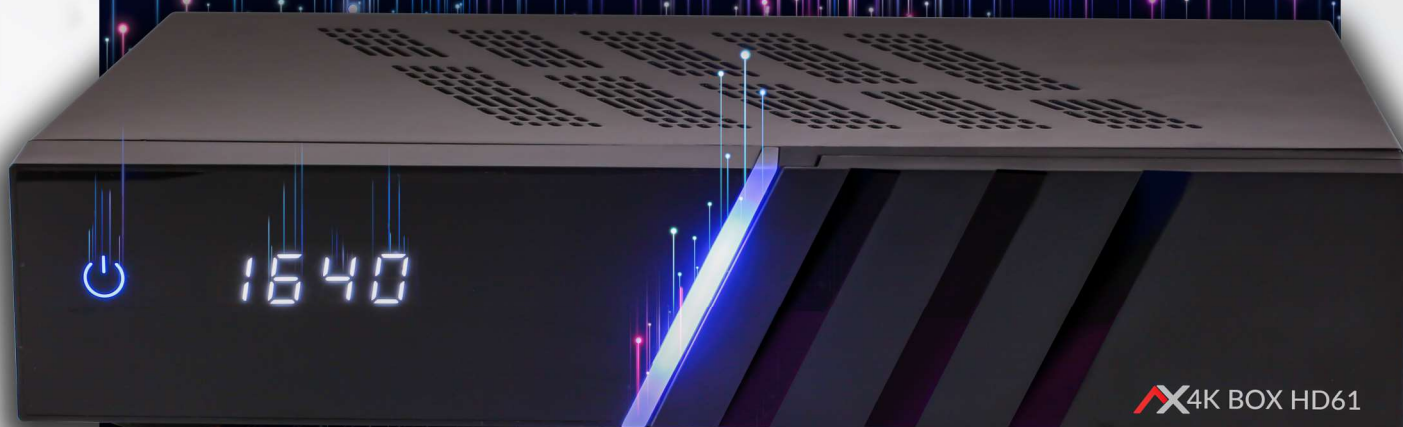
USB
UNIVERSAL SERIAL BUS



UP to 4TB HDD

S2X
TUNER

SHORT USER MANUAL



AX 4K BOX HD61

This device is available in 2 variations:
TWIN-SAT with 2x S2X tuner or COMBO with S2X + C / T2 hybrid tuner



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Important

Please read this manual carefully and keep it.

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We expressly reserve the right to make technical changes or changes in operation - which serve to improve the device or which increase the safety standard - even without a separate announcement.

An E2 Linux Receiver is very extensive and is developed every day. Therefore, it is very difficult to create a manual according to the current state. The manual was created based on the software version openATV 6.3.

A function can change, evolve or even disappear after a certain amount of time.

The actual appearance of the product may differ from the photograph of the instructions and on the packaging.

All information is provided without warranty. Printing errors, mistakes and changes reserved.



1.1 Safety instruction

- This device complies with international safety standards.
- Before commissioning, please read the safety instructions carefully and
- Keep the operating instructions within easy reach.
- Observe the warnings on the device and in the operating instructions.
- Never allow children to use electrical appliances unattended.

Environmental conditions: Protect the device from moisture and heat and set it no direct sunlight. Open fire sources, such as burning ones Candles, must not be placed on the device. Avoid putting the receiver in areas with insufficient ventilation. Keep a clearance of at least 10 cm over and at least 5 cm from the side of the device, so that the heat generated unhindered can be dissipated. Do not place objects filled with liquids, eg. Vases, on the device. Avoid the penetration of foreign bodies and liquids into the device. Do not expose the device to dripping or splashing water.

Mains connection: 100 240V AC, 50 / 60Hz. First connect the receiver with the power grid after you have completely wired it. Avoid overloading the Socket, the power supply lines or a power supply. This could be to fire or one lead electric shock.

Disconnect from the mains during prolonged absence: when the unit is on for a longer period of time Unattended (for example, holidays), you should completely disconnect it from the mains.

Lightning protection: To protect the receiver, switch it off during thunderstorms and pull the receiver Power plug and the antenna cable. This protects your receiver from overvoltage damage.

Connecting the peripheral devices: Disconnect the device from the power supply before disconnecting the device Connect or disconnect cables to antennas, TV sets and other devices.

Installation: The rubber feet can cause color changes in connection with furniture surfaces. If necessary, place the device on a suitable surface.

Faults: In case of damage to the mains cable or the device, immediately unplug the mains plug from the mains socket. Never try to open or repair the device yourself.

Batteries: Children may take batteries in their mouths and swallow them. Leaking batteries can damage the remote control. If the receiver is not used for a long time, remove the batteries from the remote control.

Use only genuine parts and accessories: Use only original parts or parts recommended by your dealer to prevent damage to your device or injury. Failure to observe this warning will void the device warranty. Every intervention and every repair must only be carried out by a qualified specialist!

Intended use: The digital receiver is used to receive digital TV or Radio programs in the private sector. It is exclusively intended for the stated purpose and may only be used for it. This includes the observance of all information in this manual, especially the safety instructions.

Any other use is considered improper and can lead to property damage, possibly even personal injury. The manufacturer assumes no responsibility for damage or injury resulting from failure to observe the safety instructions or improper handling of the device. Settings on the receiver may only be made by persons with appropriate knowledge of consumer electronics. This also means that every person who assembles, connects, operates, cleans or disposes of this receiver has read the complete operating instructions of the device in order to ensure the intended use. Keep the operating instructions for this purpose.

1.2 Waste Disposal



Electronic devices are not household waste, but must be disposed of properly in accordance with Directive 2002/96 / EC of the EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on waste electrical and electronic equipment (WEEE). Please dispose of this device at the end of its use for disposal at the designated public collection points.

1.3 Environmental protection



Packaging and packaging aids that are no longer needed are recyclable and should always be recycled.
Used batteries are not to be disposed in household waste. These must be handed in at a collection point. Information about the collection points can be obtained from your local municipality.

1.4 Battery note

Legislators have clearly regulated the disposal of batteries. Batteries must be returned free of charge by the dealer or by municipal collection points in normal household quantities. Batteries may no longer be disposed of with household waste. Take advantage of the free return options! Protect your environment. Return used batteries.



Pb



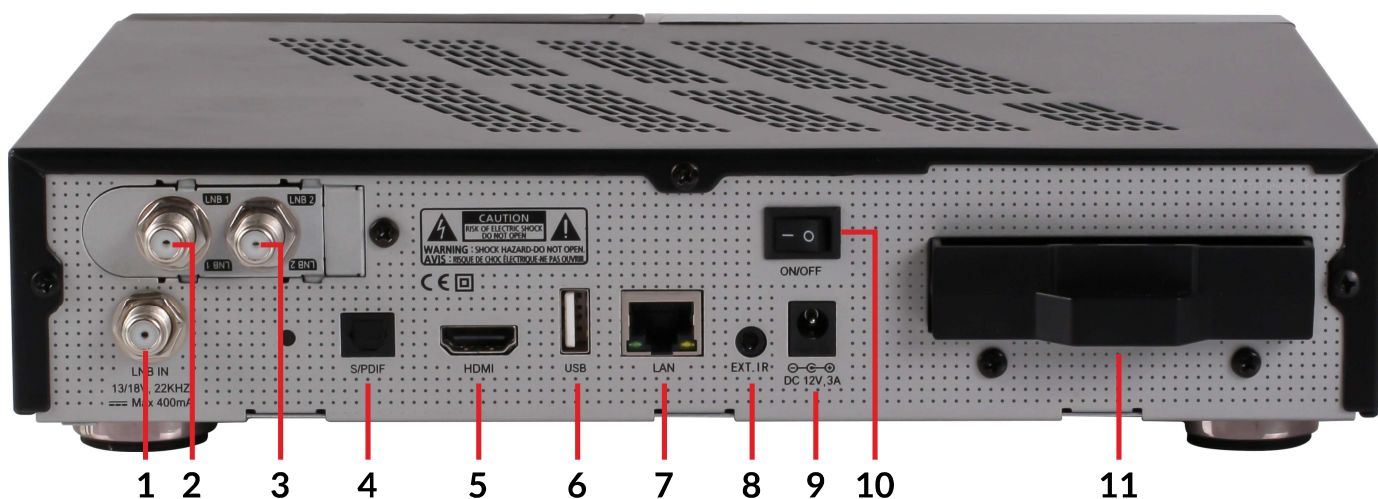
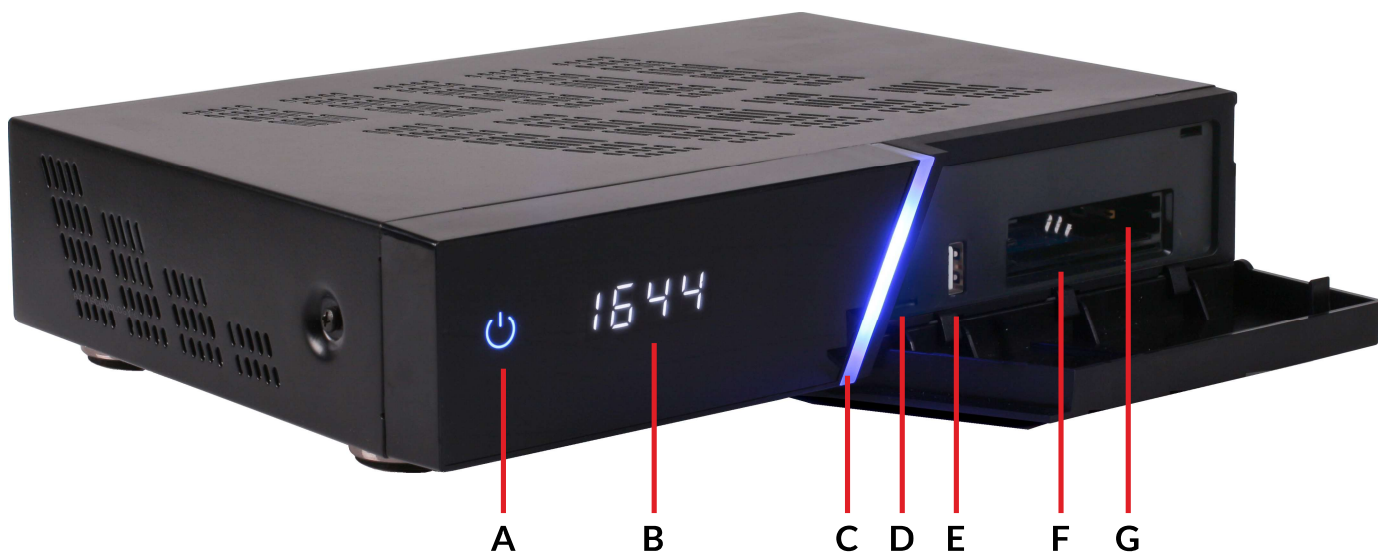
Cd



Hg

Pb = battery contains lead
Cd = battery contains cadmium
Hg = battery contains mercury

2.1 Front panel / Rear panel



- A Power Button (standby and operating mode)
- B Display (program and time)
- C LED display (operating mode / standby)
- D SD card reader
- E USB 2.0 connection
- F 1x CA card reader
- G 2x CI module interface







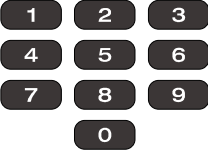








- 1 LNB input Tuner 1
- 2 LNB input Tuner 2 *)
- 3 LNB output Tuner 2 *)
- 4 S/PDIF (Digital audio output)
- 5 HDMI connection (to TV)
- 6 USB 2.0 connection
- 7 LAN 10/100 Mbit/s Network connection
- 8 Connection for Infrared-Sensor
- 9 External Power supply (DC 12V / 3A)
- 10 Mechanical power switch
- 11 Slot for a 2.5 inch hard drive with a height of max. 15 mm

*) This device is available in 2 variations:

TWIN-SAT with 2x S2X tuner or COMBO with S2X + C / T2 hybrid tuner

3.1 Remote control (RCU) / Buttons



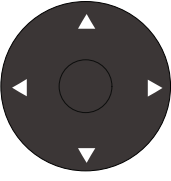

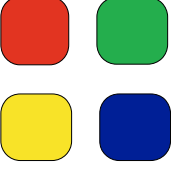
C-RCU-0119













-  On / Off button (operation / standby)
-  Turn sound on / off
-  Switch between TV / radio programs
-  Videotext on / off
-  Select audio track
-  Select Subtitle
-  Numeric keys for program selection and alphanumeric input during programming (1-0 / A-Z)
-   Show History Zap
Control of the text cursor (L/R)
-  **Volume control**
louder / quieter
-  **Channel switching**
Switch programs up / down
-  Show Timer (overview)
-  Show EPG
Electronic program guide
-  **Menu** - Menu control
-  **Exit** - exit Menu



3.1 Remote control (RCU) / Buttons

C-RCU-0119

-  Information about the current program
-  Show Favorites
- 
 - Navigate in Menu (up / down / right / left)
 - ▲ / ▼ Show program list
 - ◀ / ▶ Show graphic info bar EPG
-  Confirmation button in the menu
- 

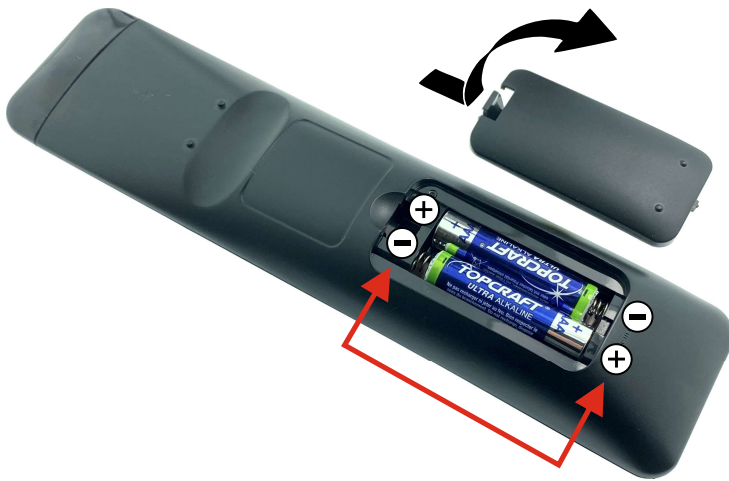
Color buttons
Each key is assigned a specific function, which can be assigned differently depending on the menu. A distinction is often made between long and short key presses
-  Fast rewind
-  Play / Pause function
Timeshift function ^{*)}
-  Stop function
-  Fast playback
-  Record button ^{*)}
-  Select file before
-  Select next file
-  Show movie folder
-  Free programmable button
-  Free programmable button
-  Show movie folder
-  Help button (quick selection)



^{*)} Function available depending on the model



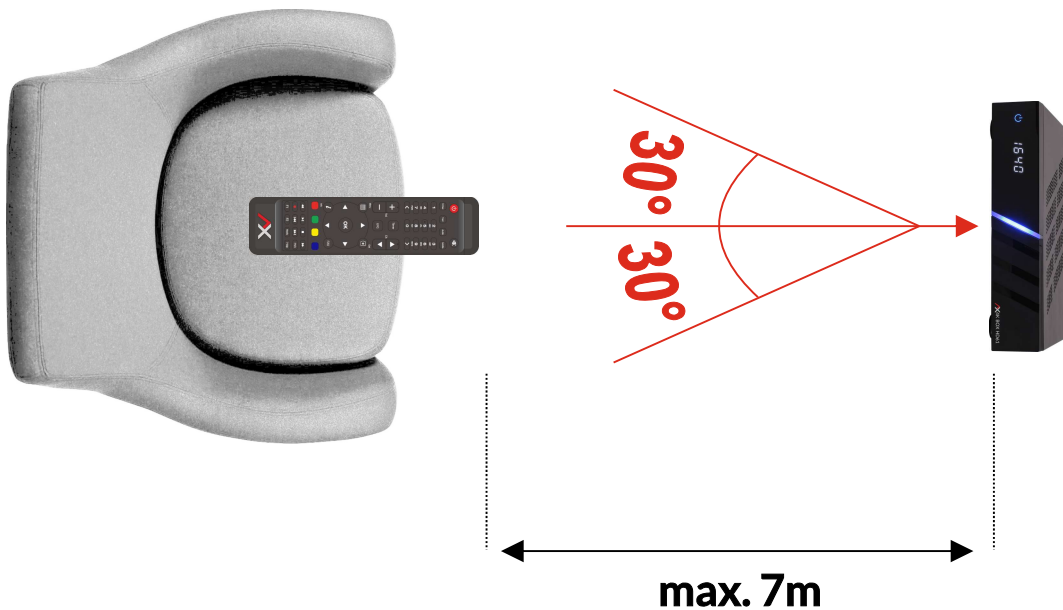
3.2 Information about RCU and batteries



- 1.) Open the battery cover in the direction of the arrow and remove it upwards
- 2.) Insert the two batteries correctly into the battery compartment as shown.
- 3.) Pay attention to the correct polarity when inserting the batteries!

Observe the following instructions to avoid damage or battery leakage:

- DO NOT use new and old batteries together!
- DO NOT use two different batteries!
- Remove the batteries from the remote control if you will not be using them for a long time!



Always aim the remote at the receiver - not at your TV. The distance should not be greater than 7m. The angle should not exceed 30 °.

If you want to place the receiver behind your TV set or in a TV cabinet, use the IR sensor. (Illustration can deviate).



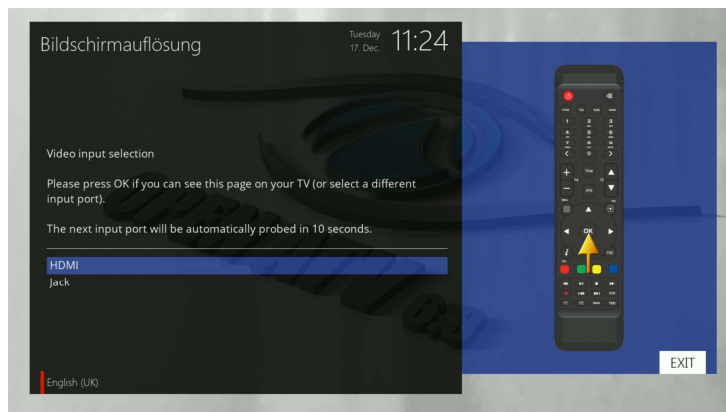


4.1 First installation / Installation wizard

The **FIRST INSTALLATION WIZZARD** starts with the first installation after your purchase.

When you use this receiver for the first time, the automatic installation wizard starts and guides you through initial programming. Press the **RED** button to change your language.

First select your input (HDMI or JACK). Use **▲ / ▼** buttons on your remote control to select and confirm your selection with the **OK** button.

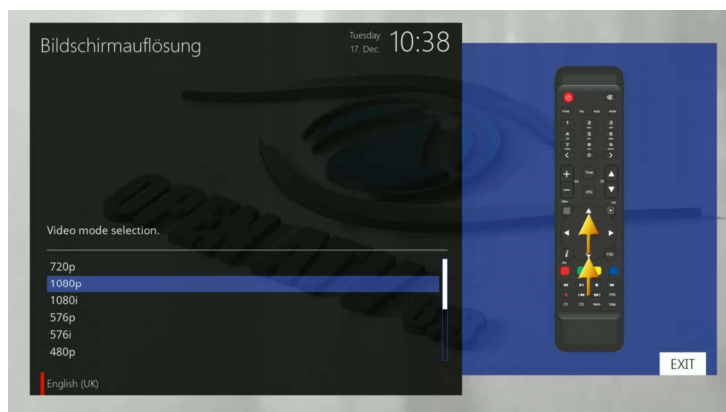


Choose your next menu, to the receiver some screen solutions from your tv device from read soll. Choose you **yes / no** with the keys **▲ / ▼** on your remote and confirm your selection with the **OK** button.



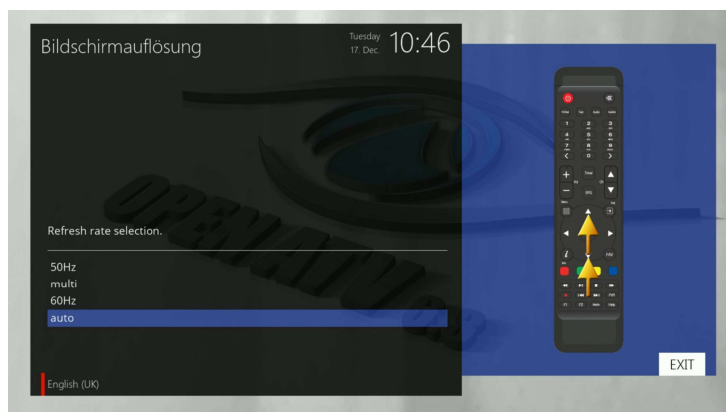
Your possible resolutions are now displayed. Select your desired resolution (video Mode) with the **▲ / ▼** buttons on your remote control and confirm your selection with the **OK** button.

e.g. : 720p, 1080p, 1080i, 576p, 576i, 480p



In next menu, select the refresh rate with the **▲ / ▼** buttons on the remote control and confirm your selection with the **OK** button.

e.g. : 50 Hz, multi, 60 Hz, auto

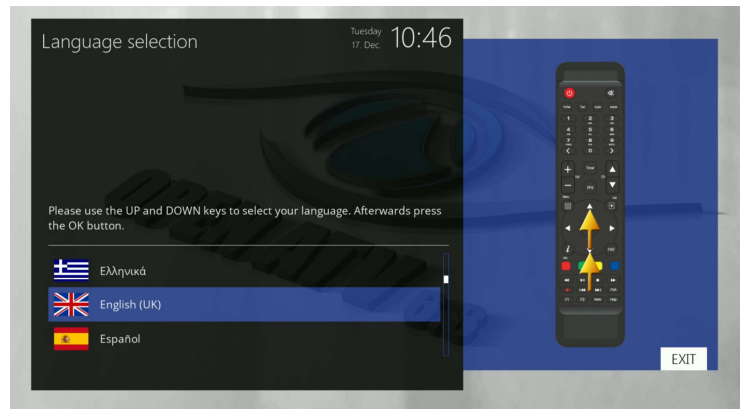




4.1 First installation / Installation wizard

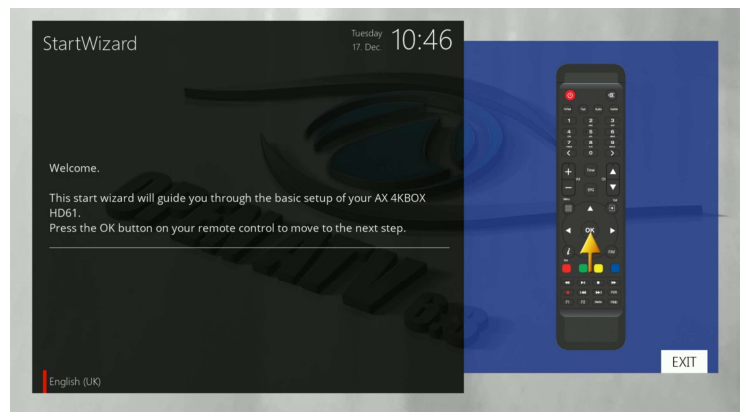
Now select your language selection with the buttons ▲ / ▼ on your remote control and confirm your selection with the **OK** button.

e.g.: German, English, Arabic, etc ...



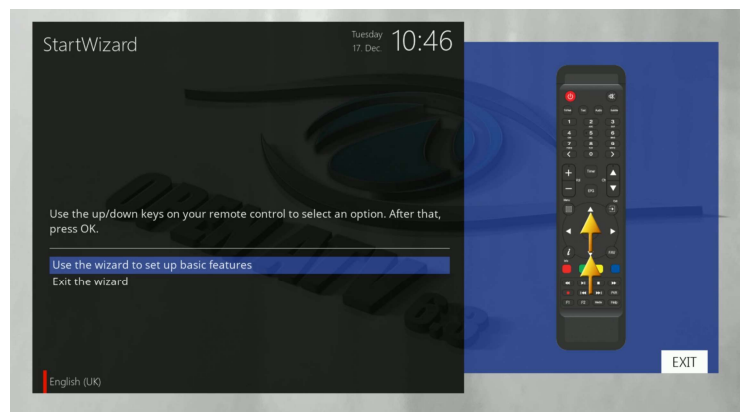
Now your receiver starts the wizard for basic settings.

Press the **OK** button on your remote control to go to the next step.



Select now with the buttons ▲ / ▼ on your remote control, if you want to start the wizard for basic features or to cancel the wizard.

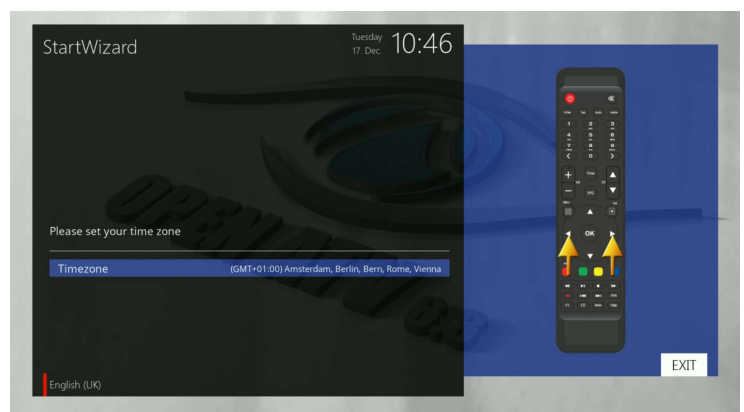
Confirm your selection with the **OK** button on your remote control.



Use buttons ◀ / ▶ on your remote control to set your time zone.

Confirm your selection with the **OK** button on your remote control.

z.B.: GMT+01:00 Amsterdam, Berlin,



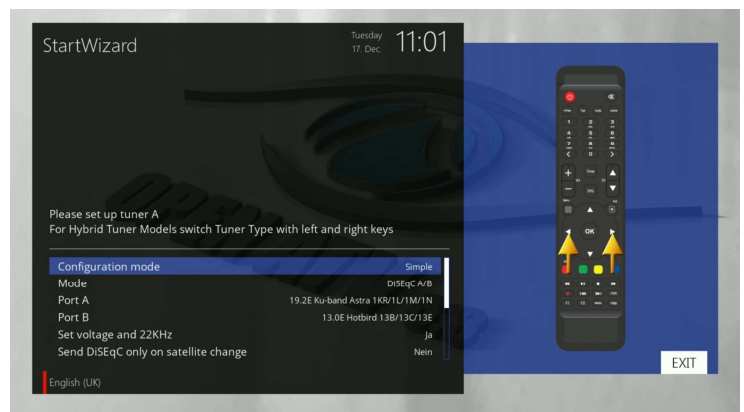
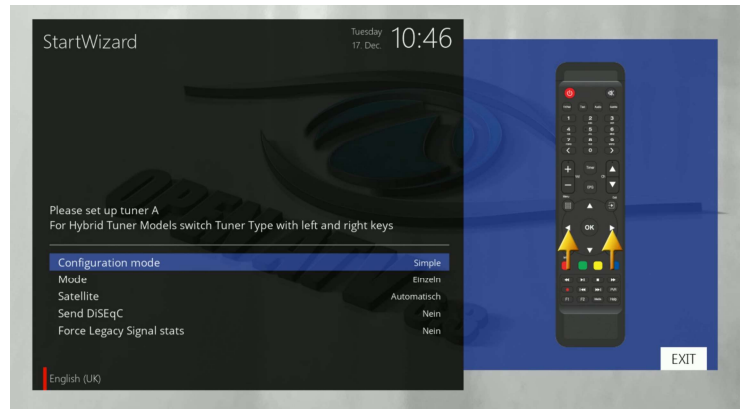
4.1 First installation / Installation wizard

In next menu you can set up **tuner A**.

Here you program the settings of your satellite system, whether you use 1, 2 or more LNBs. You can do this automatically or manually.

For example:

If you are using 2 LNBs (Astra 19.2° and Hotbird 13°), please do the configuration opposite if your switch between the 2 satellites is done via a DiSEqC signal. Select your data with the buttons ▲ / ▼ / ◀ / ▶ and confirm your configuration with the **OK** button on your remote control.

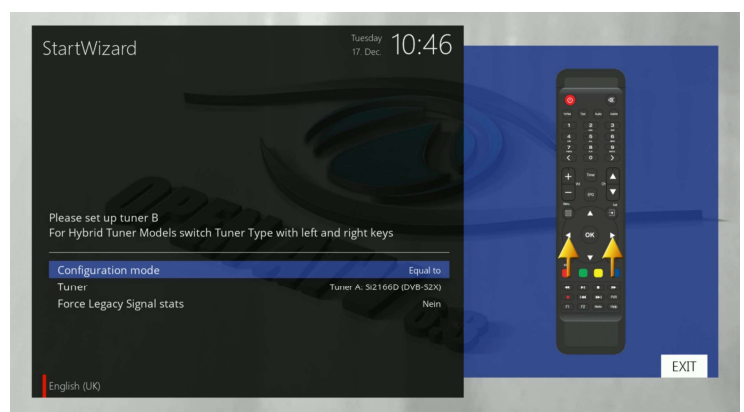
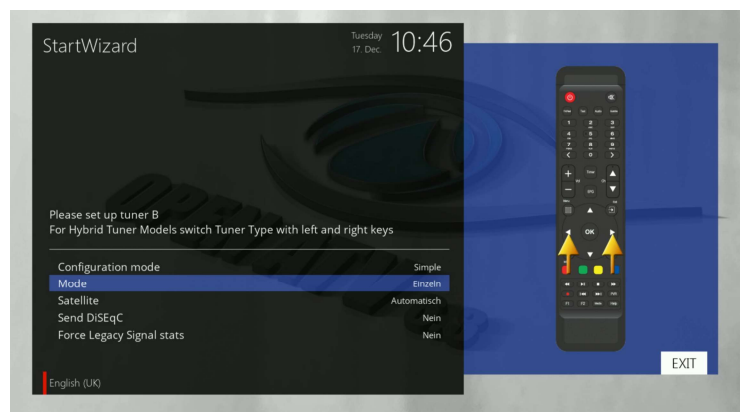


In next menu you can set up **tuner B**.

Here you program the settings of your satellite system, whether you use 1, 2 or more LNBs. You can do this automatically or manually.

Select your data with the buttons ▲ / ▼ / ◀ / ▶ and confirm your configuration with the **OK** button on your remote control.

If the configuration setting of **antenna tuner B** is the same as for **tuner A**, set the menu item „**Configuration mode**“ to **"Equal to"** and the menu item „**Tuner**“ to **"Tuner A ..."**. See picture.



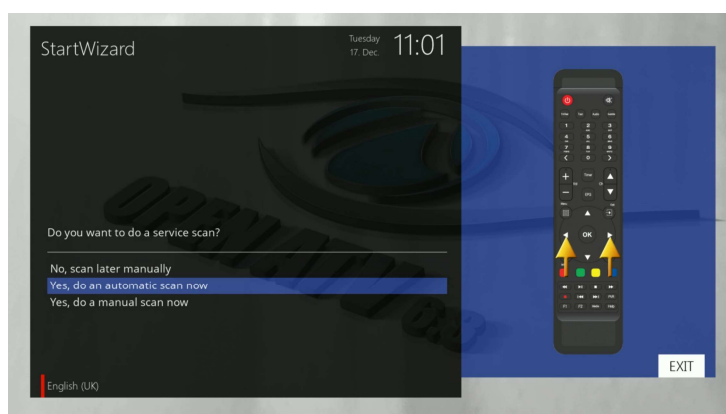
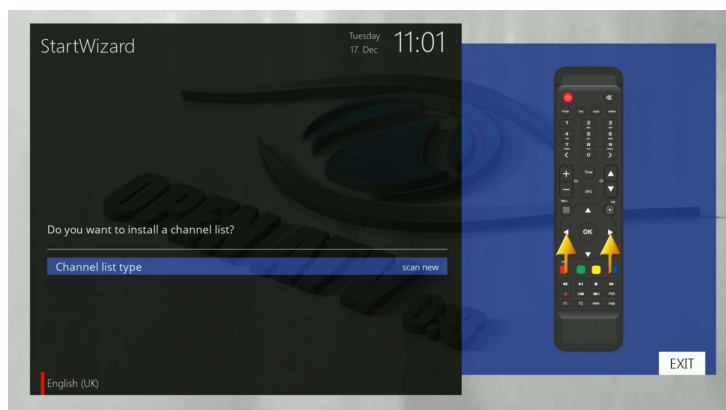


4.1 First installation / Installation wizard

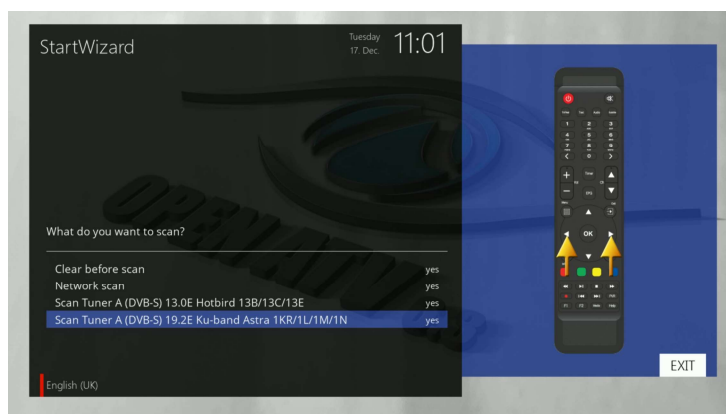
Now select with the buttons ◀ / ▶ on your remote control if you want to load a pre-installed program list or if you want to start a channel search.

If you have selected "**default Astra (13-19e) ...**", the receiver will load a pre-installed and sorted program list. Confirm your selection with the button **OK** on your remote.

If you select "**scan new**", the menu shows as shown on the right. Using the ◀ / ▶ buttons on your remote control for select. (Recommended: **Yes, do an automatic scan now**) and confirm your selection with the **OK** button.

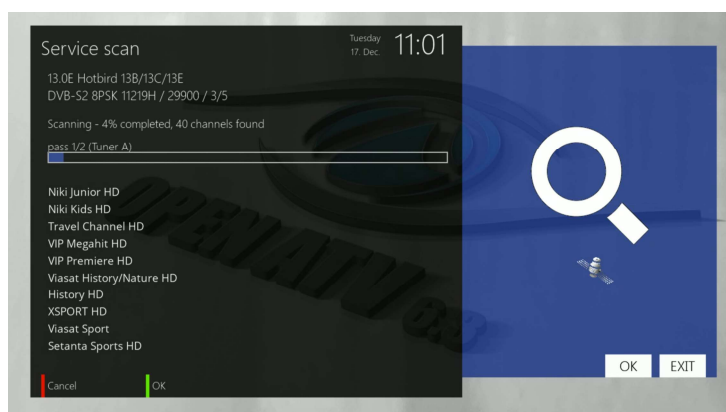


Choose your menu with the buttons ▲ / ▼ / ◀ / ▶ the settings (**Clear before scan**, **Network scan**, **Scan Tuner A**) and confirm your selection with the button **OK** on your remote.



The receiver now starts searching for a station.

Please note that with a search, all found programs must be sorted manually later!

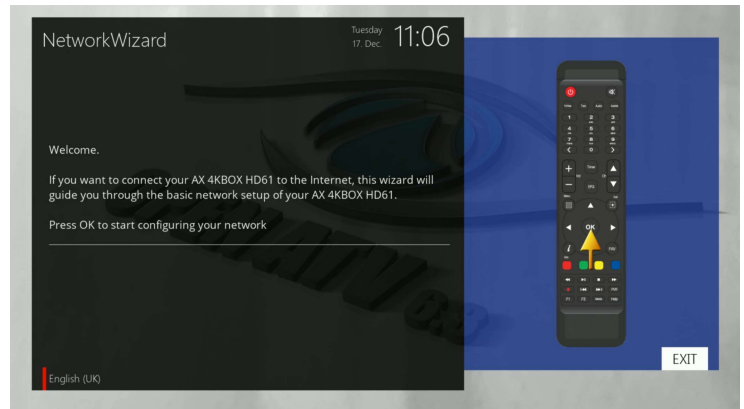




4.1 First installation / Installation wizard

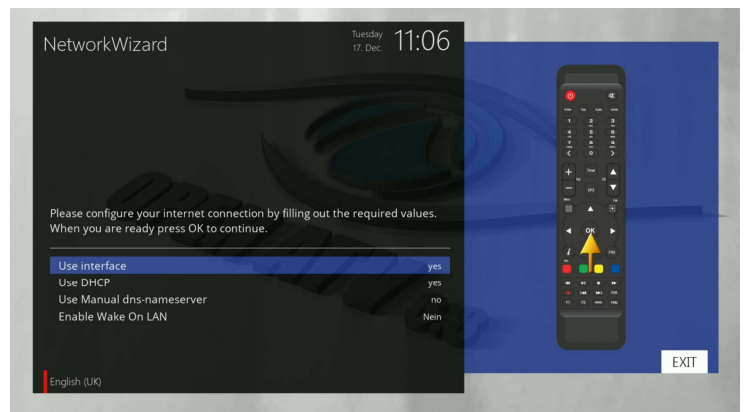
After the pre-installed channel list has been loaded or the channel search has been completed, you can now connect the receiver to the Internet.

A prerequisite is a connected LAN cable to your router or a USB WLAN antenna (optionally available). To do this, press **OK** button for continue.



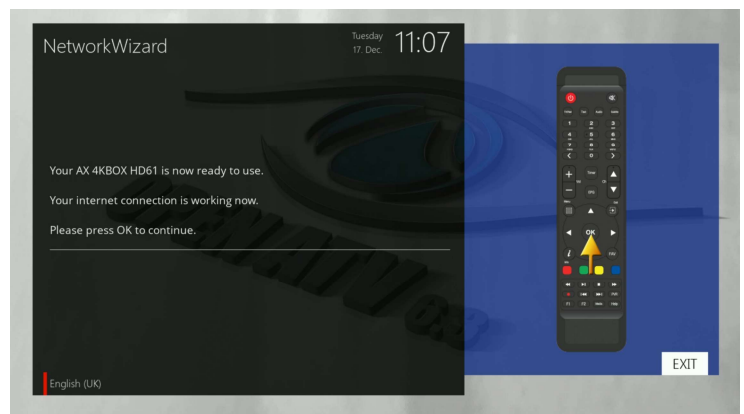
Connect your router with the receiver over a LAN network cable and click to the button **OK** to your remote control.

The menu items "**Use Interface**" and "**Use DHCP**" should be set to "**Yes**". Press button **OK** on your remote control to continue.



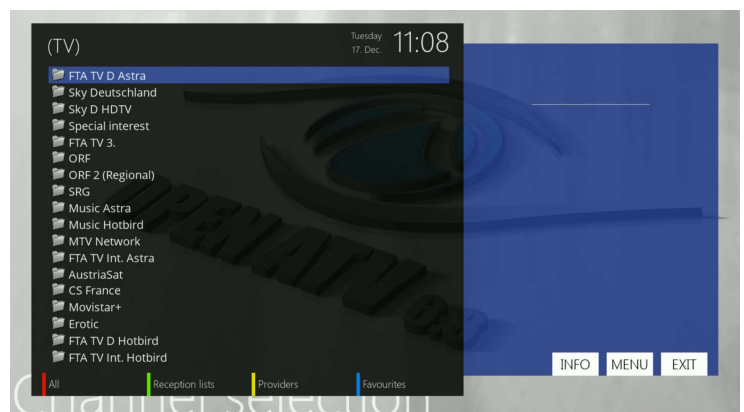
After successful connection to the Internet and your router, the message appears that your AX 4KBOX Hd61 is now connected to the Internet.

To continue press the **OK** button on your remote control.



The installation is now complete. The program list now appears - sorted by provider Bouquets (favorites).

Use the ▲ / ▼ buttons to select your favorite bouquet and confirm this by pressing the OK button on your remote control.



5.1 OSD display

When switching the programs with the „Ch. +“ / „Ch. -“ buttons or by pressing the button **OK** on your remote control, the following program information display appears:

The OSD display shows a video feed of a man and a woman. Overlaid on the bottom of the screen is a black bar containing program information. Red arrows point from text labels to specific parts of this bar:

- Current broadcast**: Points to the 'Guten Morgen Deutschland' title.
- Subsequent broadcast**: Points to the 'Gute Zeiten, schlechte Zeiten' title.
- Current Program**: Points to the 'openATV' logo.
- Weather - today / tomorrow - min/max. Temp.**: Points to the weather icon and temperature display in the top left corner.
- Time and duration of the current film/broadcast (from / to / minutes)**: Points to the '06:00 - 08:30 +16 Min' text.
- Timeline / Runtime position of the current program**: Points to the '08:30 - 09:00 30 Min' text.
- Time and duration of the next film/broadcast (from / to / minutes)**: Points to the '08:30 - 09:00 30 Min' text.
- Current date and time**: Points to the 'Freitag 13. Dezember 08:13' text in the top right corner.

Pressing the button **EPG** on your remote control shows you the electronic program guide.

You can navigate in this EPG display using the **▲ / ▼ / ◀ / ▶** buttons.

The red vertical line shows you the current time.

Electronic Program Guide

Der Blaublicht Report

FTA TV D Astra

Tuesday 17. December 11:10

Der Blaublicht Report 11:00 - 12:00

Vater kämpft mit Jugendamt für seine kranke Tochter
Der alleinerziehende Vater Timo ist schockiert, als er nach einem Zusammenbruch seiner Tochter erfährt, dass ihr Leben in Gefahr ist. Mira braucht eine neue Niere. Timo kommt als Spender nicht in Frage. Ist er überhaupt der leibliche Vater?

Today	11:00	11:30	12:00	12:30	13:00	13:30
Das Erste HD	Meister	Wer weiß denn sowas?	Tagess	ARD-Buffer	ARD-Mittagsmagazin	
ZDF HD	Notruf	SOKO Mathias Guhn	heut	drehscheibe	ARD-Mittagsmagazin	
3sat HD	Eisige Welten - Gletsch	Weiß wie Schnee				
RTL Television	Der Blaublicht Report	Punkt 12 - Das RTL-Mittagsjournal				
SAT.1	Im Namen der Gerechtigkeit -	Anwälte im Einsatz	Anwälte im Einsatz			
ProSieben	Fresh O	Mike & Molly	2 Broke Girls	2 Broke Girls	Mom	Two and a H
RTL2	Frauentausch	Frauentausch				
arte HD	Amerika mit D	Märkte - Im Bauch von	Re: Räder für Porc	ARTE Jc	Stadt Land Kunst	

IMDb Search Add Timer EPG Search Add AutoTimer +50 Mins INFO MENU

6.1 Product description

Details:

- Multiboot function with E2 Linux OS
- CPU: ARM Cortex A53 (ARMv7)
Quad Core Processor
- Hisilicon HI3798MV200 Chip
- Quad Core Prozessor 15.000 DMIPS,
4x 1.6Ghz
- High Dynamic Range (HDR/HDR10)
function
- Transcoding in HEVC264 and
HEVC265 Standard
- 4K / UHD (2160p) Resolution
- Picture-in-Picture in SD, HD & 4K UHD
- HDMI 2.0a output
- 2 GB RAM
- 8 GB Flash
- 2 x CI Interface (front)
- 1 x CA Cardreader (front)
- 1 x SD Cardreader (front)
- 2 x USB 2.0 (1x front, 1x rear)
- Webbrowser / HBBTV
- automatic / manual channel search
- fast Hardware Blindscan
- DiSEqC 1.0/1.1/1.2, USALS support
- Mechanical power switch
- 7-Segmet Display
- Slot for a 2.5 inch hard drive with a
height of max. 15 mm
- 10/100 Mbit/s Network connection
- Infrared-Sensor connection
- GPU Mali 450
- stable software including very fast
switching times
- HEVC H.265 video decoding

- External 12 volt power supply
- S/PDIF optical audio output
- unlimited channel list for TV & radio
- EPG (Electronic Program Guide)
- Skin support
- Bouquet lists (favorite lists)
- OSD in many languages
- Expandable with free plugins
- 0.5 watt power consumption in standby
- 4: 3/16: 9 aspect ratio
- Letterbox for 4: 3 TV sets

Dimensions:

27 x 20.5 x 6.5 cm

Included in the delivery:

- 1x AX 4K-Box HD61 Receiver
- 1x Remote control (C-RCU-0119)
- 1x Short user manual
- 1x HDMI Cable
- 1x IR-Sensor
- 2x Batteries (AAA)
- 1x Power supply (110-240V / 12V)

7.1 Declaration of conformity

The manufacturer,

AX TECHNOLOGY Sp. z o.o. Sp. k. ul. Szczecińska 1 W; 72-003 Dobra; Poland

declares that the device **AX 4K BOX HD61** is in compliance with the essential requirements and other relevant provisions of the EU Directive.

The declaration of conformity can be requested from the manufacturer or the distributor at any time.



www.axtechnology.eu