ZEHNDER

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HX-2400 TC

DVB T2® DVB C®

DIGITAL FHD HYBRID RECEIVER

USER MANUAL

SAFETY INSTRUCTIONS

Read the instruction manual carefully before first use and keep it for future reference. Producer is not responsible for damages caused by inappropriate handling and use of the device.

The lightning flash with arrowhead symbol, whith in an equilateral triangle is indicated to alert the user the presence of uninsulated, dangerous voltage, within the product enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.

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

1) Before connecting the device to power supply socket, make sure the voltage indicated on the appliance corresponds to the voltage in the power supply socket.
2) Make sure to place this device on flat, dry and stable surface.
3) Protect this device from moisture, humidity, water and any other liquid. Avoid using storing it in extreme temperatures. Do not expose it to direct sunlight and sources of heat.
4) Product suitable for indoor use only.
5) Disconnect the device from the power supply if it is not going to be used for a long time.
6) Protect power cord from harp edges and other factors which could lead to its damage.
7) When you disconnect the power cord of the device, grasp and pull the plug, not the cord/cable.
8) Place the device in a properly ventilated place.
9) Do not block or cover slots, holes or openings on the product by placing on soft furnishings such as carpets, rugs or beds as these are provided for functionality and/or ventilation to ensure safe operation of the product.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

10) Do not place heavy objects on the device.

11) Do not use this device if it has been damaged or its operation is abnormal.

12) Do not attempt to repair this device yourself. In case of damage, contact with an authorized service point for check-up/repair.

13) This appliance may be used by children who are above 8 years old and by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, if they are supervised and guided by a person who is responsible for their safety in a cautious manner, and all the safety precautions are understood and followed. Children should not play with this device. Children should not perform cleaning and servicing of the device unsupervised.

14) Fixed power cable may only be replaced in an authorized service point. ALWAYS disconnect this device from power supply mains before cleaning.

15) Clean this device with soft, slightly damp cloth. Do not use any abrasives or chemical agents to clean this product.

FIRST TIME INSTALLATION

After starting the receiver, a menu will appear allowing you to select the desired language. The default language is English.

Main Features

DVB-T2 H.265/C tuner
- Full HD 1080p
- MPEG 1/2/4, H.265/HEVC
- Video Output: SD/HD HDMI 1.4, SCART (CVBS, RGB)
- Multilanguage OSD
- 2000 TV and radio channels capacity
- 7 Days EPG (Electronic Program Guide)
- Channel list editor
- PVR/Timeshift
- 27 Timer settings
- Parental lock for channels and menu
- Subtitle support
- Teletext support
- Audio decoder AAC/AC3/E-AC3/PCM
- 4 Digit LED display
- Auto Stand-by mode after 3hours
- Low power consumption in Stand-by mode under 1W
- Fast program switching
- Firmware upgrade via USB
- USB 2.0
- 5 Volt antenna voltage for active antennas
- Weather service, information service

Remote Control Unit (RCU)

1. POWER: Switch between operation and standby modes.

2. I◄◄: Previous.

3. ►► I: Next

4. ◄◄: Back Backward.

5. ►►: Fast Forward.

6. ►I I: Pause/time shift.

7. ■/ USB: Stop the Music or Movie/ Enter the USB.

8. ●REC: Record.

9. ZOOM: Picture zooming function.

10. AUDIO: Display the audio list

11. SUB: Display the subtitle language list.

12. TXT: Displays the teletext

13. INFO: Display the programme information.

14. MENU: Activate main menu or exit to live channel.

15. EXIT: Exit current menu step by step.

16. ◄/►: Change volume in viewing mode; move up and down in the menu.

17. ▲/▼: Change program; move up and down in the menu.

18. OK： Confirm the selected operation or display list while watching a program.

19. EPG: Electronic Program Guide

20. FAV: Display favorite channel list you set before.

21. FIND: Quickly find channels which you want.

22. RECALL Show the previous viewed channels list. Or switch to the previous viewed channel.

23. MUTE: Mute audio. Or switch to the

24. DISPLAY: Change HDMI mode.

25. PAGE+/-: Page up/down on menu.

26. NUMERIC KEY (0~9): Change the TV channel or Radio channel.

27. DTV: Change channel list type.

28. TV/RADIO: Switch between TV and RADIO

TV Control:

Power: Turns the TV off / on
AV / TV: Select an input source on TV
VOL +/-: Volume louder, lower
SET: Button for programming the television part of the remote control

PROGRAMMING TV BUTTONS ON RCU

The remote control of the receiver can also be programmed to perform the basic functions of the TV remote control.

This way, you can avoid using two remote controls when operating this receiver.

Programmable buttons: "TV CONTROL": POWER, SET, TV / AV, VOL-, VOL +.

> Position the remote controls at a distance of 1-2 cm
> Hold down the SET key until the white POWER button lights red.
> While holding the WHITE POWER button press and hold the POWER button on the TV remote control until the white POWER button flashes three times.

When that button lights up red again, the programming of that button is over.

> Repeat the above procedure for other key combinations:
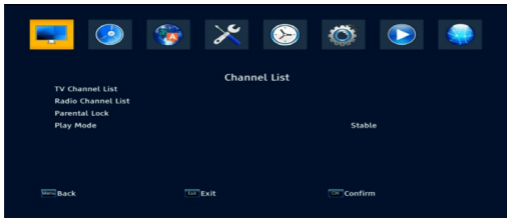TV / AV> TV / AV or SOURCE / VOL-> VOL- / VOL +> VOL +

> Press the SET key again to end the procedure - the white POWER button will be extinguished.

1. STB

You should installation the receiver when powering on your product for the first time after purchase.

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

Main menu: Press the **MENU** button to enter the main menu.

2. Channel List

1.TV Channel List

TV Channels enables you to FAV, lock, Skip,Move and Edit the channels in the channel list conveniently.

2. Radio Channels List

Radio Channels operation similar to the **TV** Channels.

3.Parental Lock

Parental Control allows you to set limits for each program or change your previous password.

You can also lock the changes you have made using age limit, menu Lock and Channel manager Lock , also Change PIN Code.
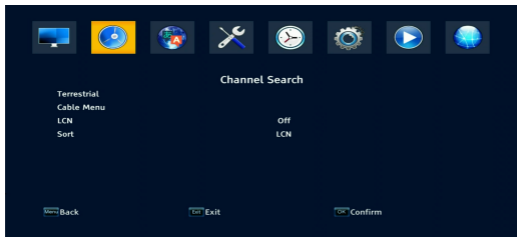
4. Play Mode

Play model allows you to set the mode AV Sync or Stable.

3. Channel Search

1.Terrestrial

A)Auto Search

Search automatically and save the found channels.

B) Manual Search
In this menu you can choose different Frequency to search for programs
C) Country
In this menu you can choose different Country .
D) Antenna Power: Off or On

2.Cable Menu

A)   Auto Search
Search automatically and save the found channels.
B)   Manual Search
In this menu you can choose different Frequency to search for programs.

3. LCN

You can turn LCN on/off (Logical Sorting): If you set ON, the programs you search will be sorted in the order they were set; if you select off, the programs will be sorted automatically.

4. Sort

You can turn sorting by: ONID/Service ID/LCN.

4.Language

1.**Language:** Set the menu language.
2.**First Audio:** Set the preferred audio language.
3.**Second Audio:** Set the second audio language.
4.**Subtitle Language:** Set the subtitle language.
5. **Teletext:** Set the teletext language.
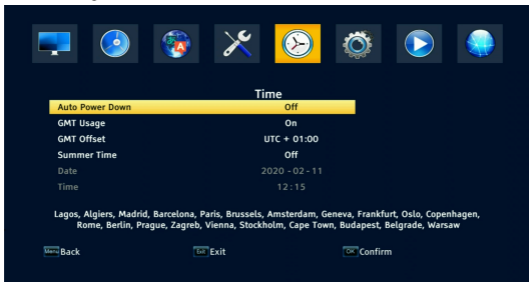6.**EPG:** Set the EPG language.

5. AV setting

1. **TV System:** In this menu, you can make settings auto, PAL and NTSC.
2. **Video Resolution:** Set the HD format between 1080p, 1080i, 720p, 576i or 576p.
3. **Aspect Mode:** Set the display format according to the screen ratio. Select TV screen mode either 4:3 or 16:9 according to the TV type.
4. **Video effects:** Here you can set Standard, Vivid and Defult.
5. **Scart Out:** Here you can set CVBS
6. **Audio Out:** Here you can set BS Out and LPCM Out.
7. **Audio Description:** set AD Service on or off.
8. **Audio Description Volume**

6.Time

Time Settings will set the time mode, time offset and summer time.

7. System

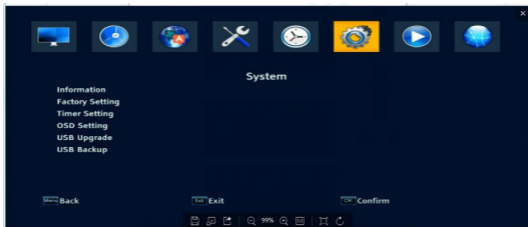**1.Information:** you can get the information about the STB.

2.Factory Setting: will load default..

3.Timer Setting: add event   timer

4.OSD Setting: Can set the subtitle display, OSD timout and OSD transparency.

5.USB Upgrade: Here you can upgrade the software.

6.USB Backup: Here you can backup the software.

8. Media Center

1. Music
It supports *.mp3, *.mp2, *.aac, *.format music files.
It can automatically download lyrics if the network is connected.

2. Picture
It supports *.jpg, *.png, *.mp4, *.bmp, *.jpeg, *.gif, *format pictures files.

3. Video
It supports *.mkv, *.avi, *.mp4, *.vob, *.ts, *.mt2s, *.flv, *.mpg, *.3gp,
*mov format movie files.It will into full screen mode after a few seconds
when there is on operation.

4. Record Manager: replay the PVR files.

5. DVR Configuration: set the tim shift and DVR Partition.

9. Network

1. WiFi

A. Plug in the wireless USB dongle to the USB port.

B. If the Network is connected, it should get the correct IP address
   and display the" Connect" and the AP name.

2. Ethernet

C. Connect one end of the Ethernet cable to the product and the
other end to the LAN router, if the Network is connected, it should get
the correct IP address and display " Status: Link Up ".

3. 3G: You can get to 3G net when you plug the 3G net card.

4. Weather Forecas: You can get to weather information.

5. Yahoo News: Information service.

6. Test Only- Net Link: Applications will be placed here only for testing purposes(the manufacturer does not guarantee their correct operation).

10. Trouble Shooting

No message displayed on the front display:

   a. Check the main power cable and make sure it is plugged into a suitable power outlet.

   b. Check that the mains supply is switched on.

No picture

   a. Make sure that the product is powered on and in operation mode, the AV/HDMI cable is firmly connected to the TV, and the antenna cable is properly connected to the product.

Poor picture/sound quality

   a. Make sure there is no mobile phone or microwave oven near the product.

   b. Check the signal levels and adjust the antenna direction to get a better picture.

No or poor sound

   a. Check that your AV/HDMI cable is connected correctly or TV is on mute.

Remote control does not operate

   a. The top end of the remote control should point directly towards the receiving part of the product or replace new batteries

11. Technical Specification:

Tuner & Channel

No. of Tuners	
Frequency Range	114 MHz to 858MHz
DVB C Signal Level	37 to 110dbuV
DVB T2 Signal Level	<-82dbm
ANT Power	5V, Imax = 300mA

MPEG

Transport Stream	MPEG-2
Profile Level	Single-chip HEVC/H.264/H.263/MPEG4/MPEG-2/AVS/AVS+/VC1
Aspect Ratio	4:3, 16:9
Video Resolution	576i, 576p, 480i, 480p ,720p, 1080i, 1080p
Audio Decoding	MPEG-1/2 layer I /II/III , Dolby AC3 /AC3+(optional), DRA 2 CH/5.1 CH(optional)
Audio Mode	Single channel/Dual channel/Joint stereo/Stereo

Power Supply

Input Voltage	5V 1.5A
Power Consumption	Max. 7.5W
Protection	Separate internal fuse. Input shall have lightening Protection

Physical Specification

Operating Temp	0 ℃ to + 40 ℃
Storage Temp	-40 ℃ to + 65 ℃