



ZXV10 B760E

RichMedia Box

User Guide

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History Revision

Revision No.	Revision Date	Revision Reason
R1.0	2014 - 05 - 22	First

Serial No.: SJ-20140522095238-001

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and consider removing the no-collocation statement.

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 undesired operation.



Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Chapter 1 Safety Instructions

Special Note

- Remove the plastic covering before using the Set-Top Box to provide normal ventilation.
- Use the power adapter provided with the Set-Top Box.

Important Safety Instructions

- Ensure that the electric voltage meets the device requirements. Check the cables periodically, replace any damaged cables immediately.
- To prevent electric shock, do not remove cover. There are no user serviceable parts inside. Refer servicing to qualified service.
- Do not use this apparatus near water.
- Clean with only dry cloth.
- Place the device on a flat surface. Do not place any heavy objects on the device.
- Do not block any ventilation openings. Install according to the manufacturer's instructions.
- Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Only use attachments/accessories specified by the manufacturer.
- Power off and pull out the power plug if the device will not be used for a long time and during lightning storms.
- After power off, wait at least 15 seconds between power off and next power-on.
- For the adapter, the socket-outlet shall be installed near the adapter and shall be easily accessible.

Service

Do not disassemble the device. Contact the service provider if the following problems occur:

- The power cable or power socket is damaged.
- There is any liquid leaks into the device.
- Fails to run normally even after following the instructions.
- The device is physically damaged.

Chapter 2 Packing List

Quantity	Item	Remarks
1	Set-Top Box (STB)	
1	Remote control	
1	Ethernet network cable	
1	Power adapter	-
1	User Guide	-
1	Qualification Certificate/WARRANTY	-
1	Packing list	-

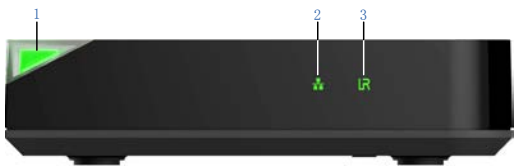


Tips:

This packing list is for reference only. The items actually delivered depend on the companion packing list of the STB. Contact the provider immediately if parts are missing or damaged. Keep all packaging and available components for return purposes.

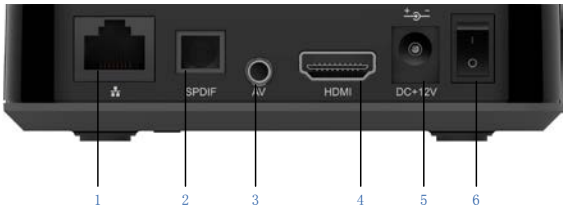
Chapter 3 Panels

3.1 Front Panel



Key	Name	Description
1	Running status indicator	Red: STB is in standby state. Green: STB is running normally Not Lit: STB is not powered ON
2	Connection status indicator	Blinking (Green): the network connection is normal. Not Lit: the network connection fails or no physical connection.
3	Infrared indicator	The green indicator flashes when the STB receives signals from the remote control.

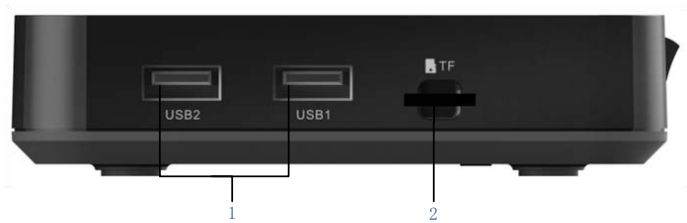
3.2 Rear Panel



Key	Name	Description
1	WAN	10/100M Base-T RJ45 ethernet interface, used to connect to gateway/xDSL modem.

Key	Name	Description
2	SPDIF	Optical digital audio output interface.
3	AV	Composite video output interface, which can be used for connecting to TV's composite video and audio input interface..
4	HDMI	HDMI output interface.
5	DC+12V	Power input socket, +12 V DC power adapter provided. Consult technical personnel before using other types of power adapter.
6	Power switch	Make sure the power switch is turned to I after the STB is powered on

3.3 Side Panel

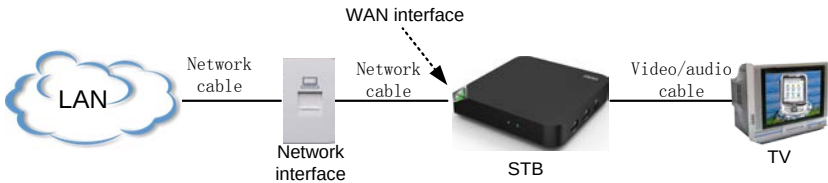
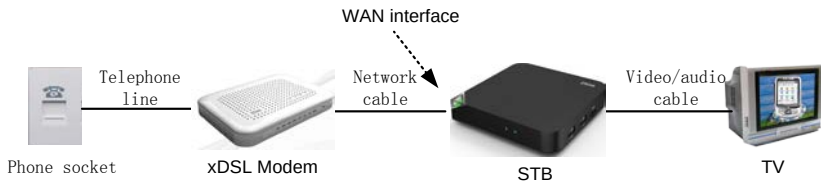


Key	Name	Description
1	USB	USB interface.
2	TF	TF card interface.

Chapter **4** *Connecting Up*

4.1 Connecting Network

This section introduces the network connection methods for STB. Select one method to connect according to the on-site conditions.

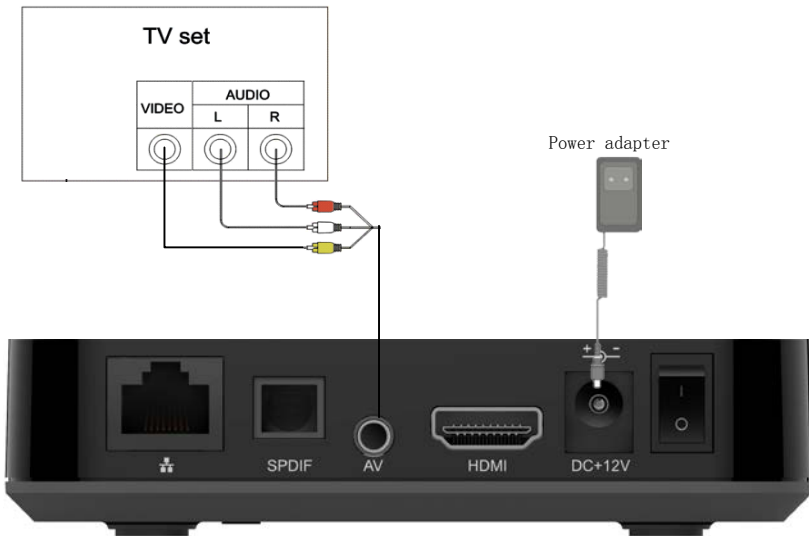


4.2 Video and Audio Connections

4.2.1 Connecting Standard Definition Interface

Steps

1. Connect the **R** and **L** interfaces on the TV to the corresponding interfaces with AV the cables.
2. Connect the **VIDEO** interface on STB to video input interface of TV with AV cable (yellow), as shown in the follow figure.

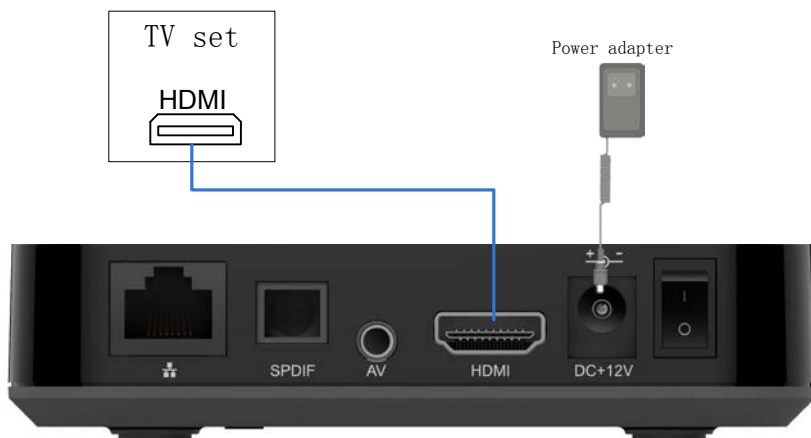


—END OF STEPS—

4.2.2 Connecting High Definition Interface

Steps

1. Connect the **HDMI** interface on STB to the corresponding interface on TV with HDMI cable, as shown in the following figure.



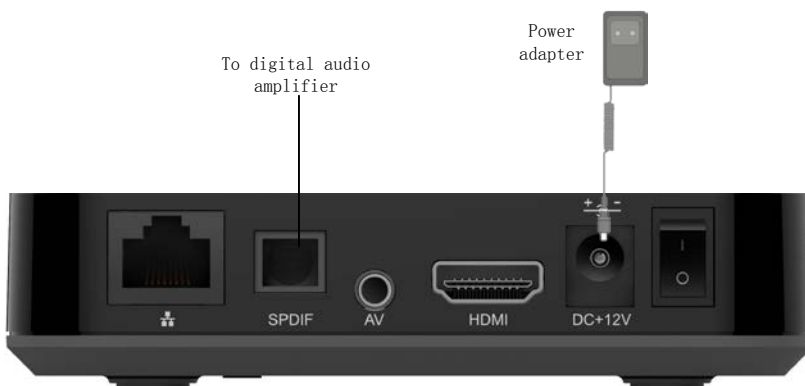
Note:

HDMI output interface simultaneously generates uncompressed high-definition video and multi-channel audio data. One HDMI data cable is capable of conveying both video and audio data.

—END OF STEPS—

4.2.3 Connecting Digital Audio

There is one optical digital audio output interface, connect the **SPDIF** interface on STB to digital audio amplifier for using digital audio.



4.3 Power ON

Steps

1. Ensure that all cables are connected correctly.
2. Install the power cable to STB using the power adapter and to AC power source.
3. Ensure that all other devices are plugged in and receiving power.
4. Turn on the TV.

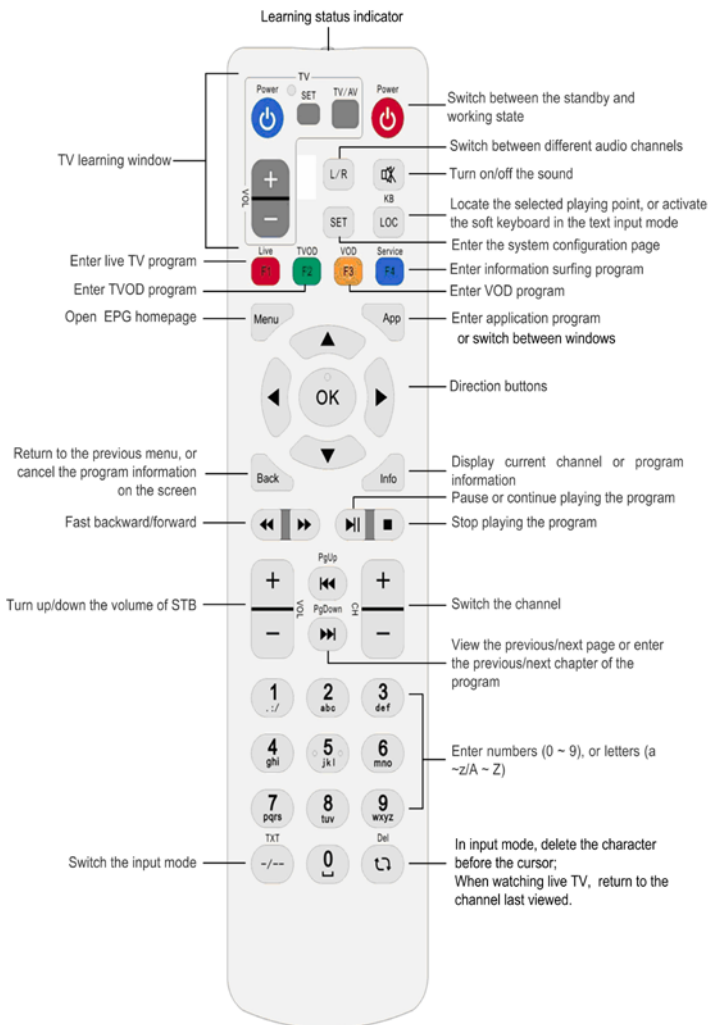
—END OF STEPS—

4.4 Upgrade

The STB can connect to the server on each power-on and check whether an upgrade is required. If so, the upgrade starts at once, which normally takes three to five minutes. Do not perform any operations during this period.

Chapter 5 Remote Control

5.1 STB Remote Control





Note:

The remote control provided depends on the IPTV service provider. The appearance of remote control shown is for reference only.



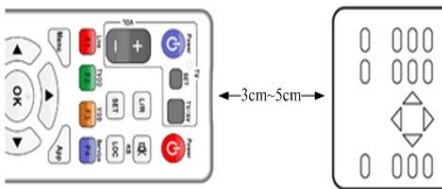
Notes:

- The remote control is powered by two AAA batteries. Insert two AAA batteries into the remote control according to the polarity instruction displayed on it.
- During the operation, point the front part of the remote control to the infrared receiving area on the STB.

5.2 Key Customization

There are four TV learning keys on the STB remote control (Power, TV/AV, VOL+, VOL-). These four corresponding functions on TV remote control can be operated on the STB remote control through customization. Users can perform some operations for both TV and STB by only using the remote control of STB.

1. Press and hold SET key for about 3 seconds until the learning status indicator turns into solid green, which signals the starting of the learning process.
2. Place the two remote controls.



3. Press the key to be learned on the TV remote control (for example, the Power key), the learning status indicator changes from solid green to solid red. Then press the target key on the STB remote control (for example, Power key), the learning status indicator changes from solid red to solid green, which signals that the learning process is successful.
4. Follow step 3 to learn other keys.
5. After completing the learning process, do not perform any operations until the learning status indicator is off, which signals that the learning information is stored successfully. Or press SET key to save the learning setting and quit the learning mode.



Note:

If the STB remote control fails to control TV after learning, please learn again following the above steps.

—END OF STEPS—

Chapter 6 Operation Guide

6.1 Standby/Working Status

	Press  key once to switch STB between the standby and working state.
	Press  key once to switch TV between the standby and working state.
	Use TV/AV key to switch the system mode of TV.

6.2 EPG Operations

	Press Menu key on the remote control to enter the EPG homepage.
	Press direction keys (up, down, left, and right) on the remote control to select an EPG item (such as button, text box, column). Press OK key to confirm the selection.
When EPG contents are organized in multiple levels or pages, perform a page flipping operation via the following keys.	
	Go to the upper level if the current level is not the top-most level.

	Go to the previous page if there are multiple pages in the same level.
	Go to the next page if there are multiple pages in the same level.
Use the following keys to switch program mode and open the requested page directly.	
	Go to live TV.
	Go to TV On Demand.
	Go to Video-On Demand.
	Go to information surfing program.
	View program information.

6.3 Common Operations During Watching Programs

Use the following keys to control the volume.	
	Switch between different audio modes (left channel, right channel, stereo).
	Press  key once to the sound off. Press  key again to turn the sound back on.
	Raise or lower the audio volume of STB.
	Raise or lower the audio volume of TV.

Use the following keys to switch channels while watching programs.	
	Press  key display the channel number on the screen, then enter channel number to directly turn to.
	Select the next channel, up and down, when watching TV.

6.4Controlling Program Playing

When a program is playing (such as live TV, VOD, TSTV), use the following keys to control the progress of the program.

	Press  key to pause the program; Press  key again to resume the program.
	Press  key to stop playing the program.
	Press  key to fast forward a Video-On Demand or TSTV program at a speed of 2X, 4X, 8X, 16X, or 32X. When the program is fast forwarded to the interested point, press the  key to play the program.
	Press  key to rewind when playing a Video-On Demand or TSTV program at a speed of 2X, 4X, 8X, 16X, or 32X. When the program is rewind to the interested point, press the  key to play the program.
	Press  key to go to the next chapter. Programs might be organized into chapters. When playing a TSTV program, press  key to exit TSTV and go to live TV.

	 When playing a single VOD program, press  key to go to the end point of the program.
	Press  key to back to the previous chapter. Programs might be organized into chapters. When playing a TSTV program, press  key to go to the start point of the program. When playing a single VOD program, press  key to play the program from start point.
	Press  key to pop up the program progress bar, then use the left and right direction keys to adjust the progress of the program to an interested point and press OK key to play the program from the interested point.
	Press  key to display the information of the current channel and program.

6.5 Watching TSTV Program

Users can watch some missed live programs through time-shifted TV service of STB.

Enter TSTV program	When watching live program, press  key to enter TSTV program, then press  key to play TSTV program.
	Press  key to go back to the starting point of the TSTV program.
	Press  key to pop up the program progress bar, then use left key to adjust the progress of the program to an interested point.

	Press OK key to play the TSTV program from the interested point.
Exit TSTV program	 Press  key to exit TSTV and go back to Live program.

Chapter 7 Troubleshooting

Problem	Possible Cause	Solution
The indicator is not lit after switching on the STB.	The power adapter has not been connected.	Connect the power adapter.
	The power adapter is damaged.	Consult the service provider and replace power adapter with a new one.
	The power outlet has no power.	Check and ensure the power outlet has power.
User cannot connect to the EPG homepage.	The network cable has not been connected properly.	Connect the network cable properly or replace it with a new cable.
	The service network fails.	Wait for service to be restored or consult the service provider.
	The network configuration is not correct.	Configure the network parameters again.
No image on the TV screen.	The STB is in standby.	Turn on STB by pressing  key on the remote control.
	The video cable has not	Reconnect video cable.

Problem	Possible Cause	Solution
	been connected properly.	
	The video input source of the TV has been set incorrectly.	Switch the system mode of the TV until the EPG page is shown on the TV.
No sound from the speaker.	The STB is in standby.	Turn on STB by pressing  key on the remote control.
	The audio cable has not been connected properly.	Reconnect audio cable.
	STB or TV is muted, or the volume has been turned all the way down.	Press  key on the remote control, or increase the volume of the STB or TV.
The remote control fails.	There is no battery in the remote control, or the batteries are installed backwards.	Install the batteries correctly.
	The batteries are dead.	Replace the batteries.
	TV cannot receive instructions from remote control.	Use the remote control closer to STB, or remove any obstacles between the remote control and STB.
The corresponding sound does not match the image.	Some video programs are broadcasted in multiple audio tracks.	Press the  key on the remote control to switch the audio mode.
Other problems	-	Restart STB or call the customer service hotline.

Chapter 8 Technical Specification

Compliant Standard	GB4943.1-2011、GB9254-2008、YD/T993-1998
Power Adapter	Input: 100 V ~ 240 V 50Hz/60Hz Output: +12.0 V DC
Environment Requirement	Working environment temperature: +32 ℉ (0 ℃) ~ +104 ℉ (+40 ℃)
	Working environment humidity: 5% ~ 95%
Protocol	TCP/IP, HTML 4.0, HTTP 1.1/JavaScript 1.5, NTP,FTP, HTTPS/SSL2.0/3.0
Video	Supports PAL, NTSC, 720p, 1080i, 1080p
	Format: 4:3/16:9
	Receiving bit rate range: 200 Kbps ~ 40 Mbps
	Resolution: 720 × 576/PAL, 720 × 480/NTSC, 1280 × 720 /720p, 1920 × 1080 /1080i, 1920 × 1080 /1080p
Aduio	MPEG1 Layer 1/2, MPEG1 Layer3(Optional), AAC, Mpeg-2 AAC LC,Mpeg-4 AAC LC,HE-AAC v1/v2,wav,wma,PCM
	Dolby 5.1, Surround,Single/Dual Track,Stereo,
Access Mode	Supports DHCP,LAN,PPPOE, WLAN access
	Supports PPPoE, IEEE 802.11 a/b/g/n, IPV4/IPV6
Dimension	110 mm × 110mm × 25 mm (Length × Width × Height)
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