QUICK START GUIDE

VX-HDMI-4KIP-TX, VX-HDMI-4KIP-RX

MEDIACENTO IPX 4K

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM

STEP 1 - Check the Package Contents

VX-HDMI-4KIP-TX PACKAGE CONTENTS

- **(1) MEDIACENTO IPX 4K TRANSMITTER**
- **(1) 5-VDC, 3-A POWER SUPPLY**
- **(1) IR BLASTER CABLE**
- **(1) USB 2.0 CABLE**
- **(1) AUDIO/MIC CABLE**

VX-HDMI-4KIP-RX PACKAGE CONTENTS

- **(1) MEDIACENTO IPX 4K RECEIVER**
- **(1) 5-VDC, 3-A POWER SUPPLY**
- **(1) IR RECEIVER CABLE**
- **(1) IR REMOTE CONTROL**

ADDITONAL ITEMS YOU MAY NEED

- **(1) FIBER OPTIC SFP MODULE PER TX OR RX UNIT (SEE TABLE 1, BELOW)**

NOTE: Also should support most gigabit fiber SFP modules.

TABLE 1. COMPATIBLE SFPS

PRODUCT CODE	DESCRIPTION
LFP411	SFP, 1250-Mbps Fiber with Extended Diagnostics, 850-nm Multimode, 550 m LC
LFP412	SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Multimode, 2 km LC
LFP413	SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, 10 km LC
LFP414	SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, 30 km LC
LFP418	SFP, 1250-Mbps Fiber with Extended Diagnostics, 1550-nm Single-Mode, 80 km, LC

STEP 2A - Transmitter (TX) Front Panel

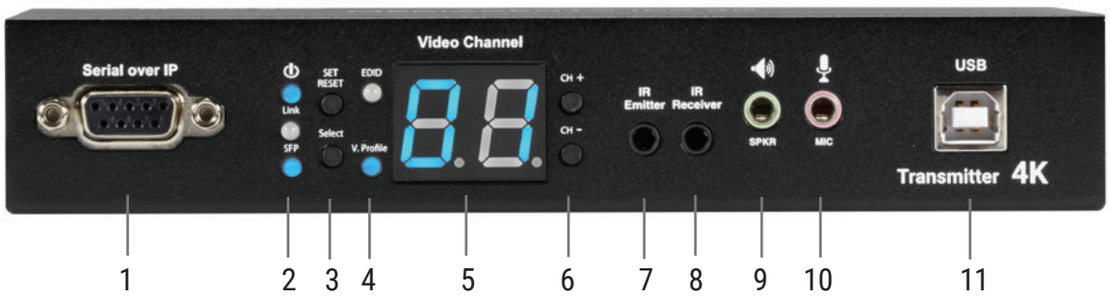


TABLE 2. TRANSMITTER FRONT PANEL COMPONENTS

NUMBER IN DIAGRAM ABOVE	COMPONENT	DESCRIPTION
1	DB9 connector	Serial over IP RS-232 extension port, connects to source device
2a	Power ON Status LED	Lights steady when power on sequence is completed
2b	Link LED	Indicates LAN Link status
3a	Set/Reset button	Press to set a function, reset system or reset to default
3b	Select button	Select EDID, video profile or video channel
4a	EDID LED	Indicates EDID update status
4b	V. Profile LED	Indicates video/graphic mode
5	Video Channel LED	7-segment LED display indicates Video Channel
6	CH+/CH- pushbuttons	Press to change video channel

STEP 2A (CONTINUED) - Transmitter (TX) Front Panel

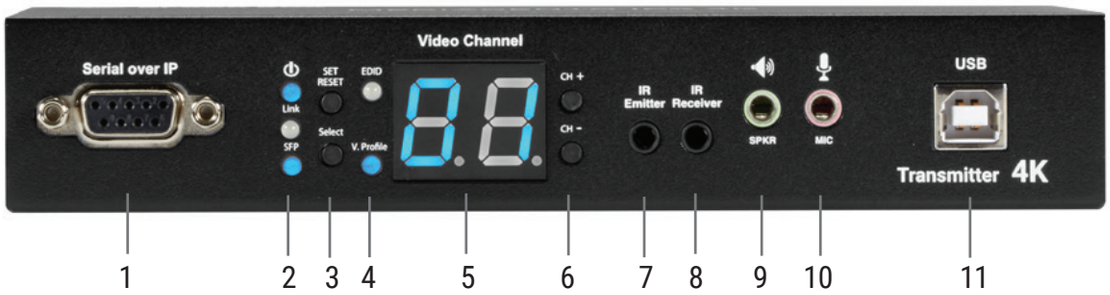


TABLE 2 (CONTINUED). TRANSMITTER FRONT PANEL COMPONENTS

NUMBER IN DIAGRAM ABOVE	COMPONENT	DESCRIPTION
7	IR Emitter connector	Used for emitting signal of IR extension over IP
8	IR Receiver connector	Used for receiving signal of IR extension over IP
9	Audio connector	Connects to analog audio output (speaker)
10	Audio connector	Connects to analog audio input (microphone)
11	USB Type B connector	Links to host source device for USB extension over IP

STEP 2B - Transmitter (TX) Back Panel

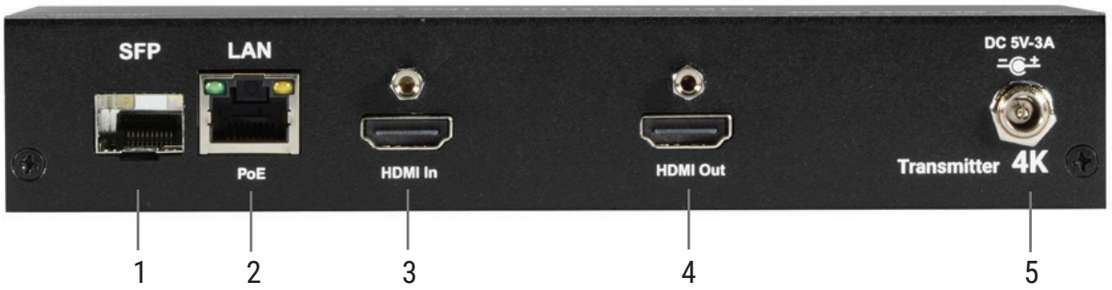


TABLE 3. TRANSMITTER BACK PANEL COMPONENTS

NUMBER IN DIAGRAM ABOVE	COMPONENT	DESCRIPTION
1	SFP cage	Fiberoptic module for link between TX and RX installs here
2	RJ-45 connector	Used for LAN Link between TX and RX/Gigabit Ethernet switch
3	HDMI IN connector	Connects to HDMI source for HDMI extension over IP
4	HDMI OUT connector	Loops back the source signal to TX unit's connected display
5	5-VDC jack	Links to 5-VDC power supply

STEP 3A - Receiver (RX) Front Panel

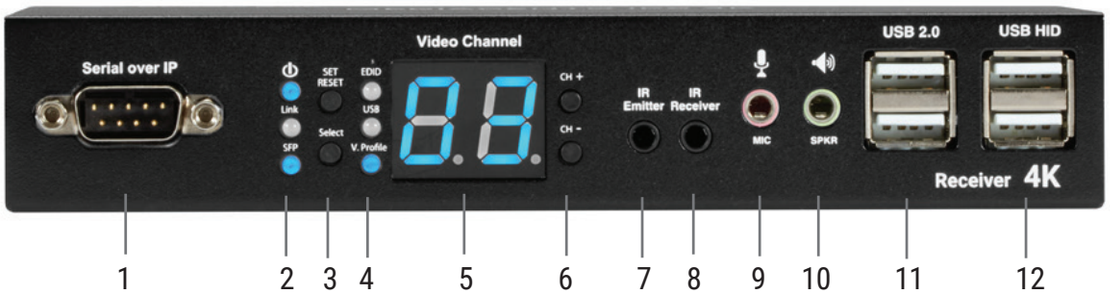


TABLE 4. RECEIVER FRONT PANEL COMPONENTS

NUMBER IN DIAGRAM ABOVE	COMPONENT	DESCRIPTION
1	DB9 connector	Serial over IP RS-232 extension port, connects to sink device
2a	Power ON Status LED	Lights steady when power on sequence is completed
2b	Link LED	Indicates LAN Link status
2c	SFP LED	Indicates Fiber Link status
3a	Set/Reset button	Press to set a function, reset system or reset to default
3b	Select button	Select EDID, video profile or video channel
4a	EDID LED	Indicates EDID update status
4b	USB Link LED	Indicates USB link status
4c	V. Profile LED	Indicates video/graphic mode
5	Video Channel LED	7-segment LED display indicates Video Channel

STEP 3A (CONTINUED) - Receiver (RX) Front Panel

TABLE 4 (CONTINUED). RECEIVER FRONT PANEL COMPONENTS

NUMBER IN DIAGRAM AT LEFT	COMPONENT	DESCRIPTION
6	CH+/CH- pushbuttons	Press to change video channel
7	IR Emitter connector	Used for emitting signal of IR extension over IP
8	IR Receiver connector	Used for receiving signal of IR extension over IP
9	Audio connector	Connects to analog audio input (microphone)
10	Audio connector	Connects to analog audio output (speaker)
11	(2) USB Type A connectors	Links to USB 2.0 devices for USB extension over IP
12	(2) USB Type A connectors	Links to USB HID keyboard/mouse for USB extension over IP

STEP 3B - Receiver (RX) Back Panel

TABLE 5. RECEIVER BACK PANEL COMPONENTS

NUMBER IN DIAGRAM ABOVE	COMPONENT	DESCRIPTION
1	SFP cage	Fiberoptic module for link between TX and RX installs here
2	RJ-45 connector	Used for LAN Link between TX and RX/Gigabit Ethernet switch
3	HDMI OUT connector	Connects to HDMI sink for HDMI extension over IP
4	5-VDC jack	Links to 5-VDC power supply

STEP 4 - Network Setup and Hardware Switching

NETWORK SETUP AND HW SWITCHING

1. Power on the Gigabit Switch and enable Jumbo Frame (8k) and IGMP v2.

2. Connect all transmitters and receivers to the Gigabit Switch using CATx cables.

3. Connect all transmitters with video sources, and all receivers with Display/TV using HDMI cables.

4. Connect an IR emitter cable to the transmitter's or receiver's IR Emitter Jack, and point the IR emitter to transmitter's or receiver's connected device's IR receiver window that you want to control.

5. Connect an IR Receiver cable to the transmitter's or receiver's IR Receiver Jack, and point the IR receiver to the transmitter's or receiver's connected device's IR remote.

6. Connect an RS-232 cable to the transmitter and receiver where a RS-232 controller or Display/TV/device can take RS-232 command.

NOTE: If the transmitter's or receiver's RS-232 port and the device's RS-232 port are different genders, use a gender changer.

7. Plug-in a DC power adapter to all transmitters and receivers. The units power on.

8. Power on all Video Sources and start playing video.

9. Power on all Displays/TVs and select HDMI input. All displays/TVs show video depending on the video channel selected.

10. To assign different video channels (sources), use an IR Receiver cable or the 99-channel IR remote controller on the receiver side to switch the source channel, or change the receiver's video channel by using pushbuttons on the receiver.

11. Select the video channel by using pushbuttons (CH+/CH-) on every transmitter/receiver based on the link mapping, and set it up by pressing the "Set/Reset" button. The 7-segment LED display (Video Channel) will stop blinking when the setting is completed.

12. To use the 99-channel IR remote controller, see **Step 5 -Remote Control** on the next page.

STEP 5 - Remote Control

USING THE REMOTE CONTROL

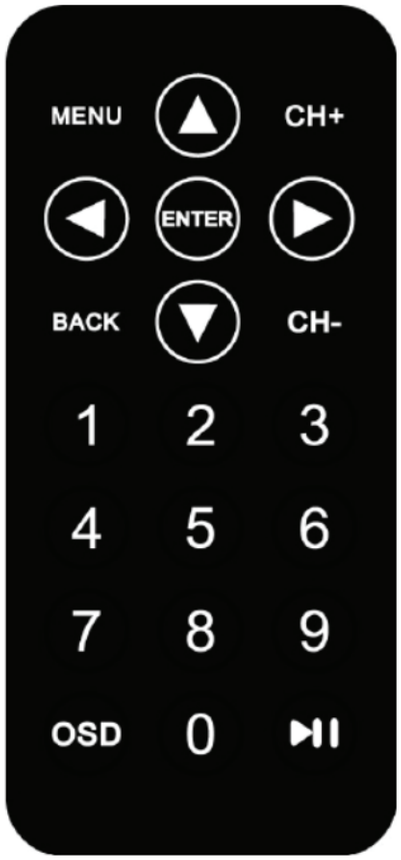
To use the 99-channel IR remote controller, follow steps A through C below.

A. Press “CH+” or “CH-“ to scroll to the next or previous available video channel.

B. Press the number key “1” – “0” and “ENTER” to directly change to the specific video channel.

C. Press “OSD” to show the status information of the transmitter and receiver in the same link on the top left corner of the display connected to the receiver. The status information includes:

- Transmitter’s IP
- Receiver’s IP and MAC address
- Firmware version of this receiver
- Device mode setting of this receiver (Extender or Matrix)
- Current receiving video channel
- Current video resolution



STEP 6 - EDID Update by Buttons

HDMI SINK DEVICE ON TX OR RX SIDE

1. Press the “Select” button to make “EDID” LED blink to select the EDID Update function.

2. Press the “SET/RESET” button to set up the EDID Update function.

3. The “EDID” LED lights steady on when the EDID Update is completed.

4. In Extender device mode for TX/RX link, EDID Update will automatically perform when the video connection is established every time or when the display connecting to Receiver unit is changed.

RESET TO FACTORY DEFAULT

1. Make sure there is no function setting for “EDID”, “USB”, “V. profile” or “Video Channel” to be selected.

2. Press the button for 6 seconds to Reset to Default.

3. Do the above two steps for the transmitter and receiver of the same link.

OPTIONAL: DOWNLOAD USER MANUAL

For product specifications and regulatory information, refer to the User Manual. You can download this document from our web site.

1. Go to www.blackbox.com

2. Enter the part number (VX-HDMI-4KIP-TX or VX-HDMI-4KIP-RX) in the search box.

3. Click on the product in the “Product Results” page.

4. Click on the “Support” tab on the product page, and select the document you wish to download.

If you have any trouble accessing the Black Box site to download the manual, you can contact our Technical Support at 877-877-2269 or info@blackbox.com

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