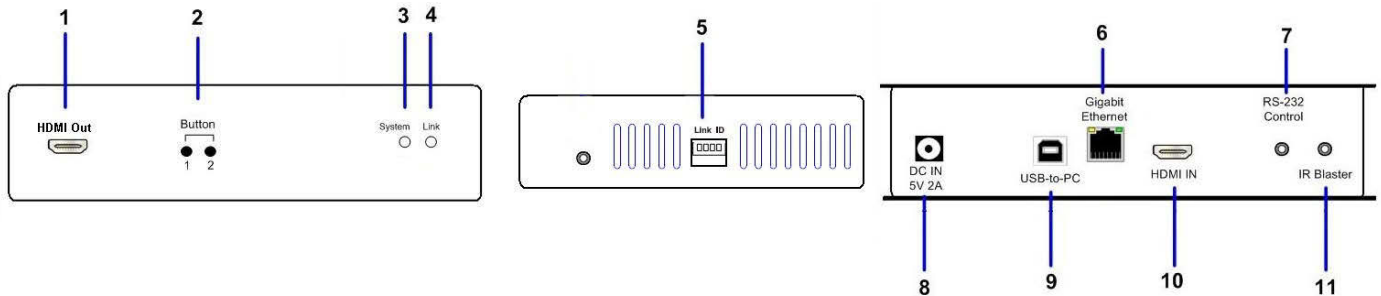
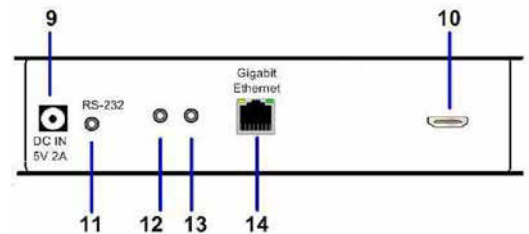
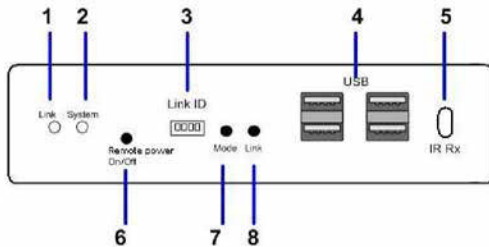


Transmitter Unit



No. Connector	Description	
1 HDMI out	HDMI Loop-out for local monitor.	
2 (Button 1)	Press and Hold at Power ON until Green and Red LED blinking	<ol style="list-style-type: none"> To reset to the Factory default setting. To enter Setup and Firmware upgrade mode in 192.168.0.88
2 (Button 2)	Short press	Set to Video/Graphic mode.
	Long press (3 sec.)	To Enable/Disable Anti-Dither. Note: For some of ATI graphic card that with Dithering function enabled, you may enable Anti-Dither to achieve the better video quality.
	Press and Hold at Power ON until Green LED blinking	Get and Use EDID from Loop-out monitor
3 System LED (Red) 4 Link LED (Green)	Green Blinking/Red Off: System is starting up. Green On/Red Blinking: Linking or waiting HDMI input source. Green On/Red On: Connection established.	
5 Link ID	4 bit DIP switch for 16 ID settings. To make Transmitter/Receiver as a pair or group, the transmitter and receiver must be set with the same Link ID.	
6 Gigabit Ethernet	Connect to Gigabit Ethernet switch or directly to Receiver.	
7 RS-232 Control	Provide Serial-over-IP function (optional).	
8 DC 5V In	System power input (DC 5V 2A)	
9 USB-to-PC	Connects this USB-B to PC to provide 2 functions: <ol style="list-style-type: none"> USB audio device. (An USB audio device will be detected in Windows) Virtual 4-port USB Hub for remote USB devices. 	
10 HDMI IN	Connects to HDMI Source. For DVI source, use a HDMI-to-DVI adapter.	
11 IR Blaster	Connects to external IR LED (option).	

Receiver Unit



No. Connector	Description	
1 Link LED (Green) 2 System LED (Red)	Green Blinking/Red Off: System is starting up. Green On/Red Blinking: Linking or waiting HDMI input. Green On/Red On: Connection established.	
3 Link ID	4 bit DIP switch for 16 ID settings. To make Transmitter/Receiver as a pair or group, the transmitter and receiver must be set with the same Link ID.	
4 USB Host	For remote USB devices, such as USB KB/Mouse, storage, audio, ...	
5 IR Rx	Remote Universal IR receiver (optional).	
6 Remote Power On/Off	Button for Remote PC Power On/Off function (optional).	
7 Mode button	Short press	Set to Video or Graphic mode.
	Long press (3 sec.)	To Enable/Disable Anti-Dither. Note: For some of ATI graphic card that with Dithering function enabled, you may enable Anti-Dither to achieve the better video quality.
	Press and Hold at Power ON until Green LED blinking	Get and Use this Receiver's EDID as the system EDID (update Transmitter EDID)
8 Link button	Short press	1. For Version A5.1.3A, this is used to show OSD 2. For versions prior to A5.1.3, this is used to link/unlink.
	Long press (3 sec.)	To get the USB access right.
	Press and Hold at Power ON until Green and Red LED blinking	1. To reset to the Factory default setting. 2. To enter Setup and Firmware upgrade mode in 192.168.0.88
9 DC 5V In	System power input 5V 2A, or 4A when used with 4 x USB devices.	
10 HDMI OUT	Connects to HDMI monitor. For DVI monitor, use a HDMI-to-DVI adapter cable.	
11 RS-232	Provides Serial-over-IP function (optional)	
12 Mic. IN	Microphone Input for the USB audio device. (Please set the OS default audio device to the USB PnP audio device that created by Transmitter)	
13 Line OUT	Stereo Audio output for the USB PnP audio device. (Please set the OS default audio to the USB PnP audio device that created by Transmitter)	
14 Gigabit Ethernet	Connects to Gigabit switch or directly to Transmitter.	

■ Installation

1. By factory default, the TX will connect to RXs with the same Link-ID in Multicast mode.
2. Attach screen to the RX HDMI-Out port.
3. Attach HDMI/DVI source (PC or Blue-Ray) to the TX HDMI-In port and then power On the TX.
4. The RX detected by the TX will gain USB access right.
5. If you are using PC as your video source, you shall be able to see your screen EDID information on the PC graphic card control panel.
6. Output HDMI (with audio) from source and check if they are correctly displayed on your screen.

■ USB and KM over IP installation:

7. Connects TX USB-to-PC port to PC by a USB cable. Windows OS will detect 3 devices: Generic USB Hub, USB Composite Device, USB PnP Sound Device.
8. You can select "USB PnP Sound Device" as Windows default sound device in order to use speaker and microphone on the RX Line-Out (green) and Microphone jack (pink).
9. The system supports both "USB-over-IP" and "KVM-over-IP" for USB-port sharing. The USB-over-IP means the port will work as Virtual HUB port. Any kind of USB devices can be attached, like keyboard, mouse, Pen Drive. Only one RX is permitted to access TX USB in USB-over-IP mode at any time. The KVM-over-IP means the port will work as HID device with keyboard/mouse emulation, so you don't get BIOS "Keyboard Error" if there is no real keyboard attached during PC boot up. It is not necessary to gain USB access right for the KVM-over-IP port. The TX (PC) can be shared with multiple RX for keyboard/mouse access in KVM-over-IP mode. However, due to it may not compatible with touch screen, it is recommended to use USB-over-IP for the touch screen application.
10. The factory default with USB-over-IP enabled, and KVM-over-IP disabled, refer to the following section for how to enable KVM-over-IP.

■ EDID Master Assignment

You can assign either TX's local screen or the RX remote screen as the "EDID Master".

To assign TX's local screen, press and hold the TX's [Button 2] then power ON TX until **Green** LED blinking.

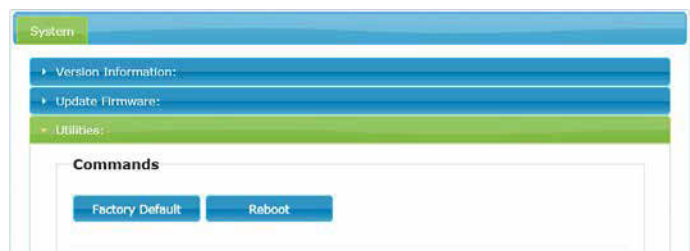
To assign RX's screen, press and hold the RX's [Mode] then power ON RX until **Green** LED blinking.

Note: The TX unit will save the EDID from EDID Master in its internal memory. The EDID Master will remain act until it is power recycled. It is recommended to repower the EDID Master as long as the EDID hasbeen saved in the TX unit.

■ Reset to Factory default

If the device settings had been changed and forgotten, you can reset it back to factory default:

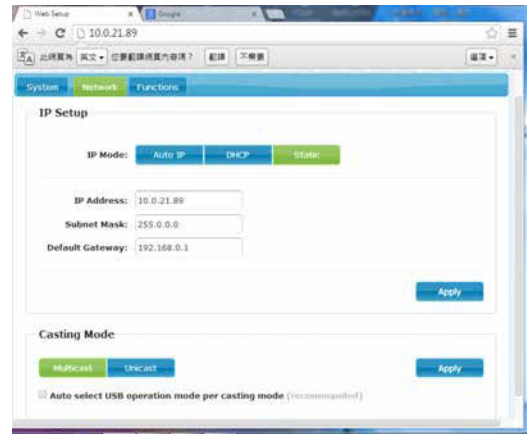
1. Directly connect TX or RX to PC LAN port, set PC IP to 192.168.0.1 and Net Mask 255.255.255.0
2. For TX: Press and Hold the [Button 1] and Power ON until **Green and Red** LED blinking then release the [Button 1], this will set the TX to Setup mode.
3. For RX: Press and Hold the [Link Button] and Power ON until **Green and Red** LED blinking then release the [Link Button], this will set the RX to Setup mode.
4. Open PC's Web Browser and enter **192.168.0.88** <Enter>. Then select [Utilities] and click [Factory Default] button.



(The Factory default IP is "static" mode, in 10.xx.xx.xx and shown on the label that under chassis)

■ To change IP address

The device Factory default IP is “static” in 10.xx.xx.xx and shown on the label under the unit. You can perform the above [Reset to Factory default] procedures if the device had been changed to other IP and was forgotten. Set PC IP to 10.0.1.1 and Net Mask 255.0.0.0 then open PC’s Web Browser and enter device’s IP address, a Web page showing the System Information will be displayed. Select the [Network] tab to change IP Mode (Auto IP, DHCP, Static), Casting Mode (Multicast, Unicast).



■ Video over IP Settings

There are two settings about video: Enable Video over IP and Enable Video Wall. Select the [Functions] tab, and click the checkbox to enable or disable the settings.

Video over IP

Enable Video over IP

Enable Video Wall

Copy EDID from this Video Output (Default disabled under multicast mode)

■ To Enable/Disable USB over IP

Select the [Functions] tab and enable or disable the USB over IP setting.

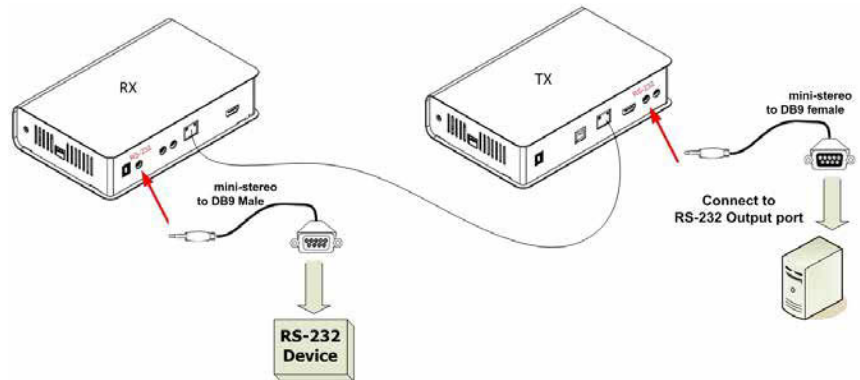
USB over IP

Enable USB over IP

■ RS-232 Control

This function is designed to remote access and control of RS-232 device.

1. Connect the mini-stereo-to-DB9 Female adapter cable to the **[RS-232]** socket at the rear panel of the TX Transmitter, and then connect the DB9 Female connector to the COM port (male) of your PC.
2. Connect the mini-stereo-to-DB9 Male adapter cable to the **[RS-232]** socket at the rear panel of the RX Receiver, and then connect the DB9 Male connector to a standard RS-232 cable (female), and then to the RS-232 device.



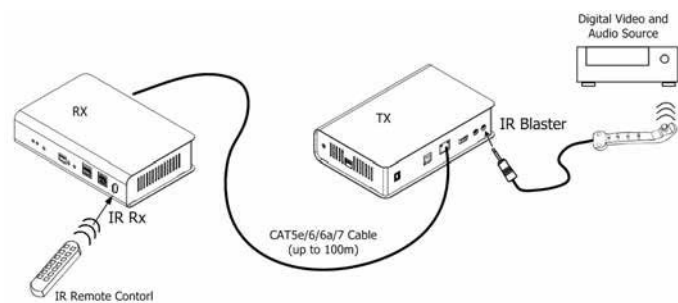
RS232 Pin Assignments

Signal	-NC-	TxD	RxD	-NC-	-NC-	-NC-	-NC-	-NC-	-NC-
Receiver	5	3	2	7	8	4	6	1	9
Transmitter	5	2	3	8	7	6	4	1	9

■ Infrared Control (optional)

This function is designed to transmit IR signal from the RX to the AV source.

1. Connect the supplied IR blaster cable to the **[IR blaster]** socket at the rear panel of the TX Transmitter. Please check if the LED on the IR blaster is rightly positioned in the front of the AV source.
2. Make sure your infrared remote controller is able to align the Receiver **[IR Rx]** port. When you press any key on the remote controller, the Receiver receives the IR signal and transmits it to the Transmitter. Then the IR signal is delivered to the AV source device through the LED on the IR blaster cable.
3. To work properly, the LED of the IR blaster cable must be facing the IR receiver of your TV tuner card or Blu-Ray player.



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