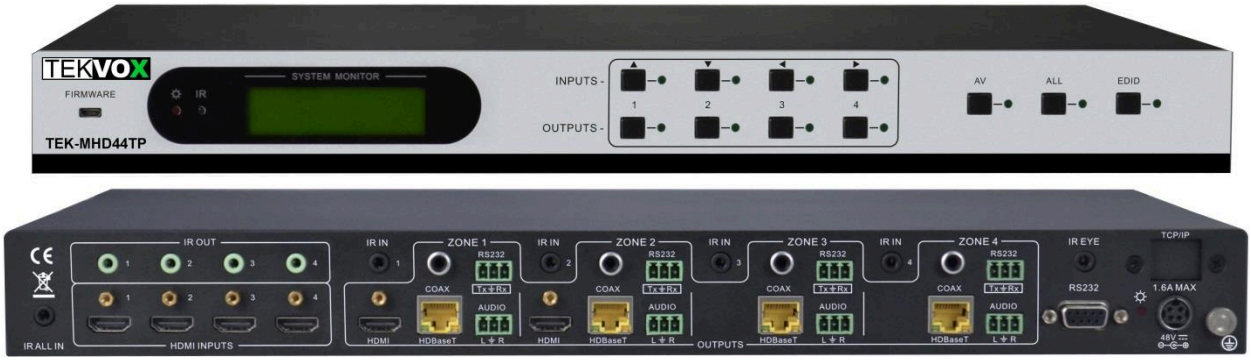
TEK-MHD44TP 79055
4x4 HDMI Matrix with HDBaseT Lite Outputs



TEK-TPHD402PR

User's Manual

March 15, 2014

Please read this manual carefully before using the system.

Attention:

This manual only includes operational instructions and specifications, and is not intended to be used for service. Specifications are subject to change without notice. Please ask your local dealer for detailed information.

Please check website or contact local supplier for updates. www.tekvox.com

Firmware History

Version	Date	Update Content
1.0	2013.05.29	First version.
1.1	2013.11.08	Added commands.
1.2	2013.11.11	Added commands.
1.7	2014.01.20	Fixed loss of audio after clear route command

Operation Notice

In order to ensure the proper use of the product and the user's safety, please comply with the following items during installation and maintenance:

①
The system must be properly connected to earth ground. Do not use ungrounded or two bladed plugs and ensure the alternating power supply ranged from 100v to 240v and from 50Hz to 60Hz.

②
Do not operate the device in locations above 100° F and below 30°F.

③
To avoid any damage by over heat, please provide adequate ventilation to radiate the heat when operating the device.

④
The device should be turned off when in wet or humid areas.

⑤
The AC power supply line should be disconnected from main power during the following operations:

- Remove or reinstall any component on the device.
- Disconnect or re-connect any connector on the device.

⑥
Please do not attempt to remove the cover on the device. There are no serviceable components and high-voltage is present inside with risk of the electric shock.

⑦
Do not splash any chemical product or liquid on or near the equipment.

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TEK-MHD44TP 4x4 HDBaseT Matrix

1. Description

The TEK-MHD44TP 79055 is a unique 4x4 HDMI matrix switcher with HDBaseT outputs with EDID & HDCP management. Included in the unit are IR and RS-232 inserters for the HDBaseT connections, and audio de-embedders with both analog and digital outputs. Any input can be routed to any output with support for high resolution 1080P and HD-3D. Breakaway audio is not supported. The HDBaseT output supports PoE and works with TPHD402PR to transmit HDMI, IR and RS-232 over a single Cat5e/Cat6 cable up to 200 feet.

2. Features

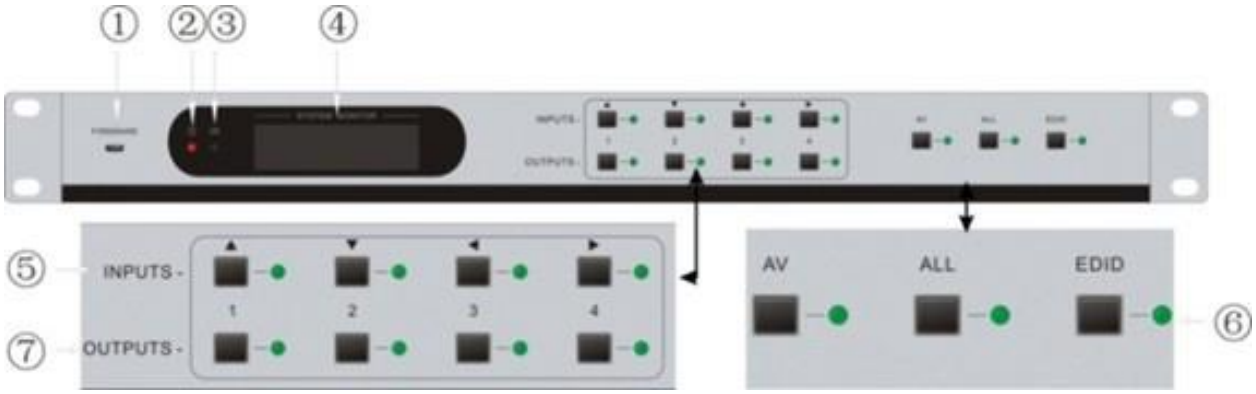
- HDMI resolution up to 1920*1200@60Hz including HD-3D
- HDCP Compliant and DVI compatible, supporting DVI 1.0
- Powerful EDID and HDCP management
- HDBaseT Lite outputs, to transmit HDMI, IR & RS-232 up to 200 feet over a single Cat 5e/Cat 6 cable
- Output PoE provides power for all the receivers connected to the HDBaseT outputs
- Front panel Menu operation for configuration, control and status
- RS-232 control with simple ASCII commands
- IR control
- TCP/IP control (Optional)
- IR OUT signal switching follows with video signal, or can break away from video switching
- Supports remote control from receiver by IR & RS-232
- Supports centralized IR control to control all the remote display devices
- Supports PCM, Dolby, and DTS 5.1 surround
- Source detection to provide power control for DVDs and Blur-rays.
- Standby mode operation to reduce energy and extend life.

3. Package Contents

- 1 MHD44TP
- 2 Mounting ears
- 1 Power adapter (DC48V)
- 1 IR remote
- 1 Power cord
- 1 RS-232 cable
- 1 CAT5e twisted pair
- 8 Captive screw connectors
- 4 table mount cushions

4. Front and Rear Panel Description

4.1 Front Panel Operation

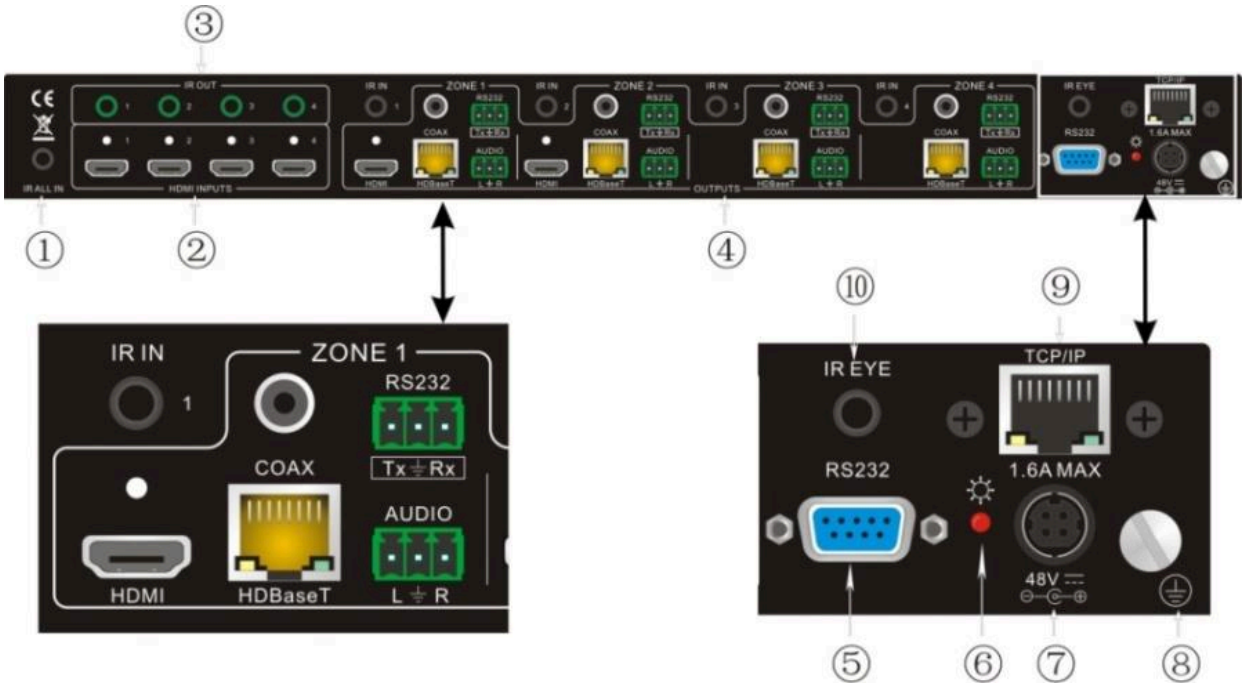


No.	Name	Description
①	Firmware	Micro USB port for update firmware.
②	Power Indicator	Keep light when power on.
③	IR Receiver	Receive control signal from IR remote.
④	LCD Indicator	Real-time shows system status.
⑤	INPUTS/ Menu buttons	Normal mode: Input buttons, ranging from "1" to "4". Inquire mode: Press “AV” more than 3 seconds to enter this mode. ◄ ► to change different menus, ▲▼ to change different channels.
⑥	Function buttons	➢ **AV** button: To transfer AV and IR signal synchronously by the switcher. **Example**: To transfer both AV and IR signals from input channel No.1 to output channel No.3. **Operation**: Press buttons in this order “1”, “AV”, “3”.
		➢ **ALL** outputs button: To transfer one input to all outputs. **Example**: To transfer both AV and IR signals from input channel No.1 to all output channels. **Operation**: Press buttons in this order “1”, “ALL”
		➢ **EDID** management button: manually capture and copy the EDID data from an HDBaseT output device to input port. Do not use the Local HDMI outputs. **Example**: To capture and copy the EDID data from output channel No.4 to input channel No.2. **Operation**: Press buttons in this order “EDID”, “2”, “4”
⑦	OUTPUTS	Output buttons, ranging from "1" to "4".

To control the matrix from the front panel controls do the following:

- “Input Channel” + “AV” + “Output Channel”
- “Input Channel”: Fill with the number of input channel to be controlled.
- “Output Channel”: Fill with the number of output channels to be controlled.

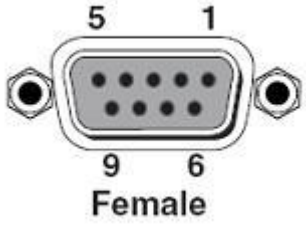
4.2 Rear Panel Operation



No.	Name	Description
①	IR ALL IN	IR control signal input port, connect with IR receiver, pass through to all the HDBaseT ports to control the remote devices.
②	HDMI INPUTS	Type A female HDMI connectors.
③	IR OUT	Connect with IR transmitter, to send out the IR signal from the HDBaseT port. These IR OUTs make up a IR matrix with the IR INs on the HDBaseT receivers, and all can be switched synchronously with the AV signal or separately switching.
④	OUTPUTS	**IR IN**: Connect with IR receiver, fixed IR input for the output, cannot be switched. It makes up an IR transmission with the IR OUT on the corresponding HDBaseT receiver. **HDMI**: Split HDMI output for local monitoring. **COAX**: HDMI de-embedded digital audio output. **HDBaseT**: Works with receivers using HDBaseT technology, such as TPHD402R, TPHD402PR. It can pass through AV, IR and RS-232 signal to 200 feet distance. PoE power is provided to operate the TPHD402PR. **RS-232**: RS-232 port to communicate with the RS-232 port on corresponding HDBaseT receiver. **AUDIO**: HDMI de-embedded stereo audio output
⑤	RS-232	The serial port for unit control, 9-pin female connector.
⑥	Power Indicator	Lights when Power is supplied to the unit.
⑦	48V DC	Connect with 48V DV power adaptor.
⑧	GROUND	Connect to grounding, make the unit ground well.
⑨	TCP/IP	TCP/IP port for unit control, optional function.
⑩	IR EYE	Connect with extended IR receiver, use the IR remote to control MHD44TP.

4.3 RS-232 Communication Port

Use this connector to operate the switcher using a third party control system. The RS-232 communication port is a DB9 female connector operating at 9600 baud.

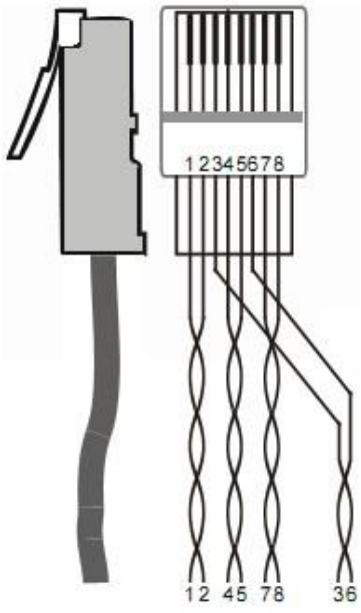


Pin
2 ---------- TX Out
3 ---------- RX In
5 ---------- Ground

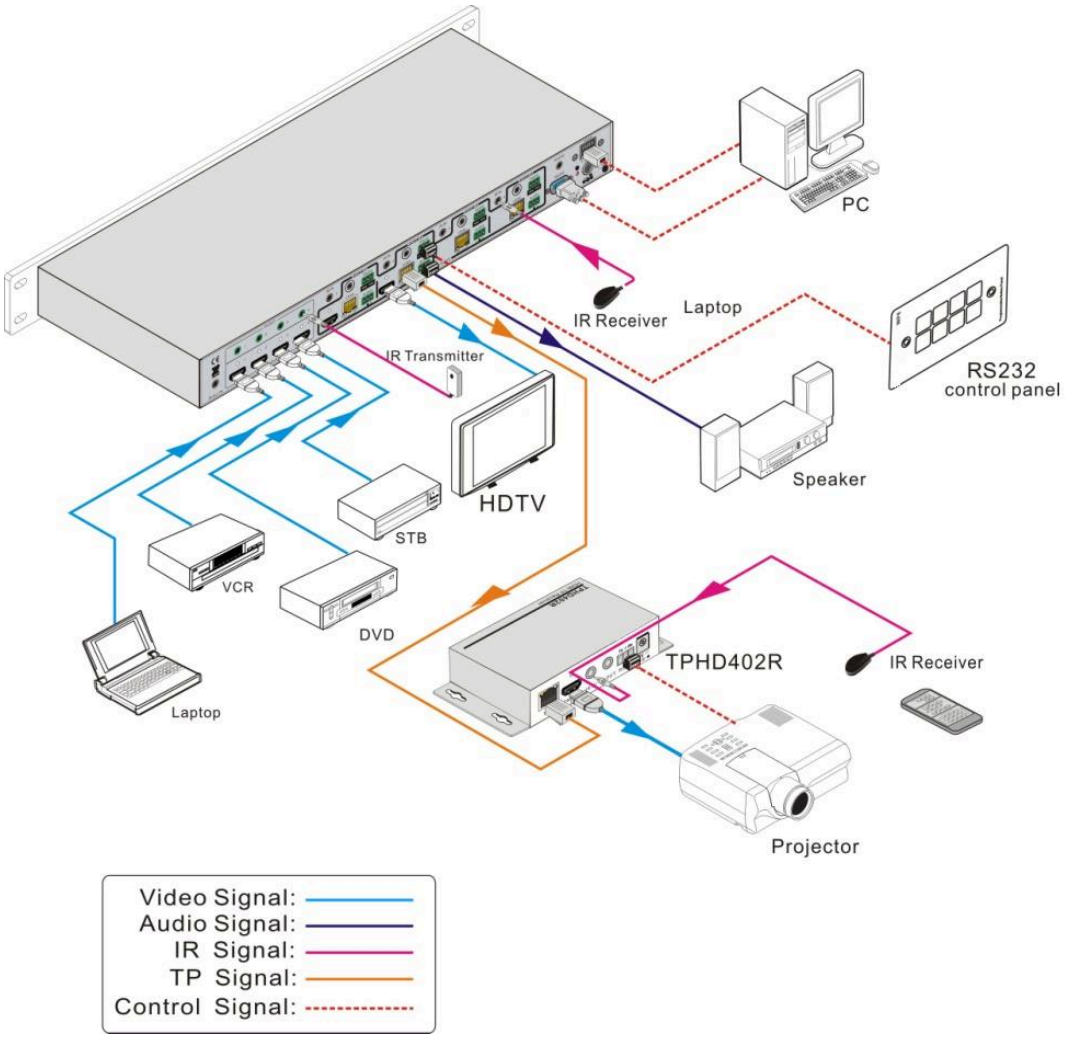
4.4 HDBaseT Twisted Pair Cable Connection

Always use a minimum of 30 feet Cat 5E or Cat 6 solid twisted pair cable.

TIA/EIA T568A			TIA/EIA T568B	
Pin	Cable color		Pin	Cable color
1	green white		1	orange white
2	green		2	orange
3	orange white		3	green white
4	blue		4	blue
5	blue white		5	blue white
6	orange		6	green
7	brown white		7	brown white
8	brown		8	brown
1st Ground	4--5		1st Ground	4--5
2nd Ground	3--6		2nd Ground	1--2
3rd Group	1--2		3rd Group	3--6
4th Group	7--8		4th Group	7--8



5. System Diagram



6. System Operation

6.1 Front Panel Button Control

The operation examples are showed in ***2.1 Front Panel.*** Here we make a brief introduction to the system inquire operations.
Keep pressing the button “AV” for 3 seconds, it will enter into system inquire menu. Use Left and Right direction button two check the previous/next item.

Function Items	Example	Description
Check the connection status of inputs	**In 1 2 3 4** **Connect Y Y Y Y**	Y means the corresponding port is connected with input device, N means not.
Check the connection status of outputs	**Out 1 2 3 4** **Connect Y Y N N**	Y means the corresponding port is connected with output device, N means not.
Correspondence between inputs and outputs	**Out 1 2 3 4** **Input 1 2 3 3**	Shows the correspondence between the 4 inputs and 4 outputs.
Check if the input is with HDCP	**In 1 2 3 4** **HDCP Y Y Y N**	Y means the input signal is with HDCP, N means not.
Check if the output is with HDCP	**Out 1 2 3 4** **HDCP Y Y Y N**	Y means the output signal is with HDCP, N means not.
Check the output resolution	**Resolution** **Out 1 1920x1080**	Use the **UP** and **DOWN** direction button to check all the 4 output resolutions.

6.2 IR Control

The HDBaseT 4x4 matrix switcher can be controlled by its built-in IR receiver, through the IR EYE port by connecting with extended IR receiver or controlled remotely by a far-end IR device through one of its receivers. By using IR & HDBaseT transmission technology the HDBaseT 4x4 matrix switcher has the following features:

- Control far-end output device from local.
- Control local input/output device remotely.
- Control the HDBaseT 4x4 matrix switcher locally/remotely.

6.2.1 IR Remote Operation

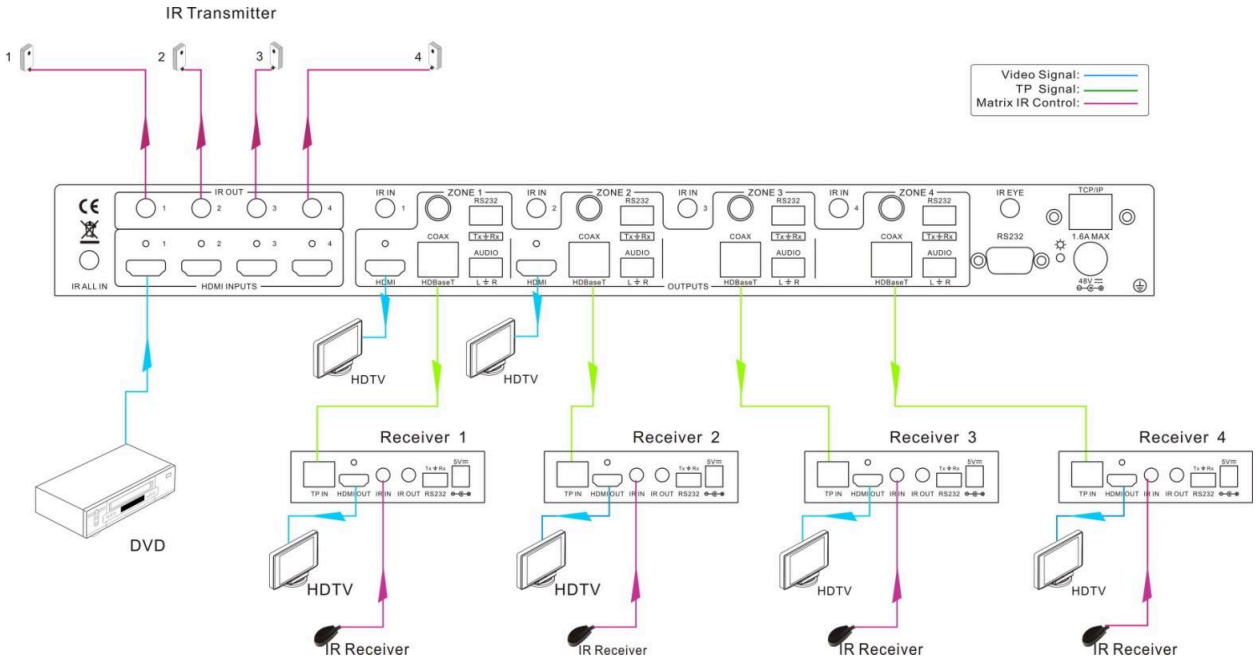
6.2.2 IR Operations

IR Matrix Switching

By using the 4 “IR OUT” ports and the “IR IN” ports of the far-end receivers, the HDBaseT Matrix can be used as an IR router. Commands can be sent to the Matrix for the IR to follow the video or to switch separately.

The IR signal received by an HDBaseT receiver is transmitted to a selected IR port (IR OUT) on the matrix switcher received by a controlled device.

See figure below:



Switching Operation:

a) **Sending command** [x1]R[x2]. **(reference to 6.*3 RS-232 Control)***:

x1: Corresponds to one of the 4 IR OUT ports of the matrix
x2: Corresponding to an HDBaseT receiver
Example command: “3R2.” transfers IR signal received from Receiver 2 to IR OUT port 3.

b) **Using IR remote**: Input channel→button **IR**→Output channel

Example Press buttons “3”, “IR”, “1” in order to transfer IR signal received from Receiver 3 to IR OUT port 1.

Note: Multiple receivers cannot be selected to the same IR output.

IR Carrier Enforcing:

a) IR carrier must be present on the HDBaseT receiver for the IR signal to be transferred to the IR OUT port of the matrix.

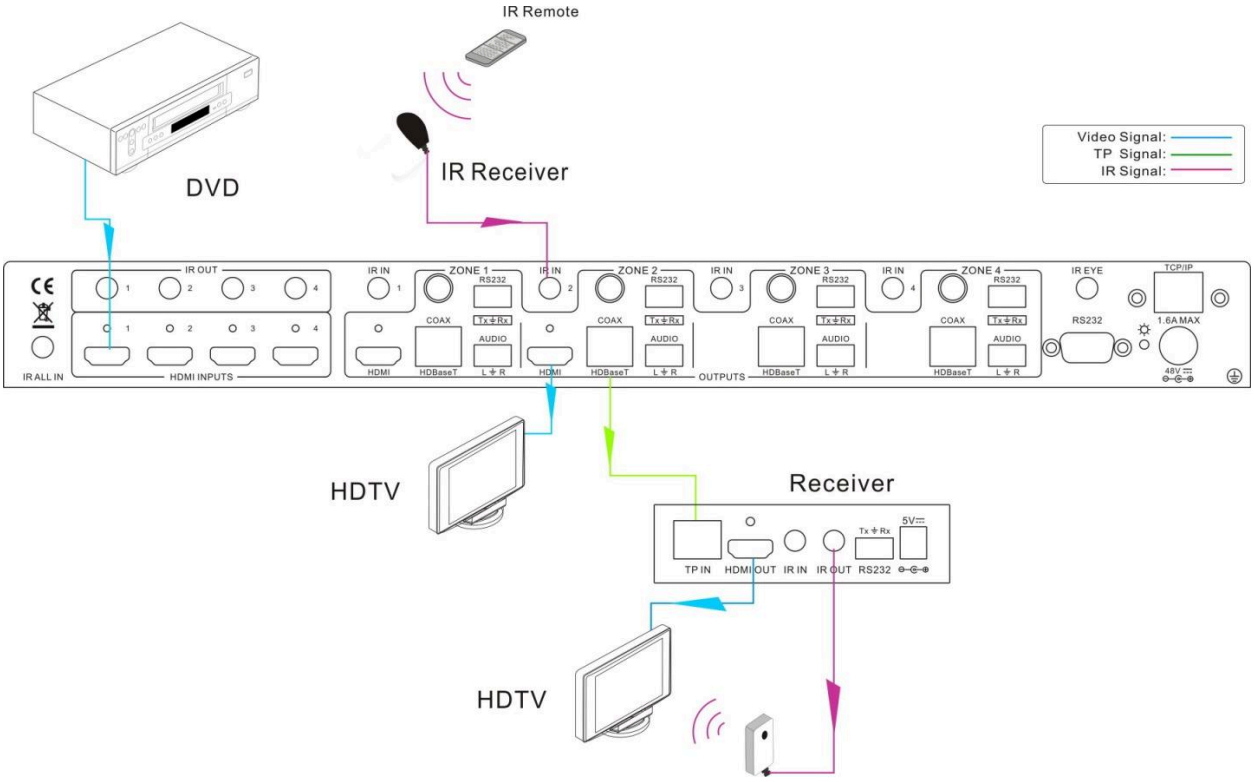
b) IR carrier must be present on the IR **ALL IN** port of the matrix for the IR signal to be transferred to the IR OUT port of the matrix.

c) If the IR receiver is connected with an HDBaseT receiver or IR ALL IN port of the matrix is not with IR carrier, you need to send the command "**%0901.**" to transfer the IR signal to IR OUT port.

Control far-end output device from local

To control a remote display from the local IR receiver, IR carrier must be present on the IR ALL IN port. The IR signal is transferred to the corresponding zone connected with an HDBaseT receiver that has an **IR transmitter**. When the **IR receiver** is connected to IR ALL IN port, the IR signal can be transferred to all 4 IR transmitters connected with HDBaseT receivers.

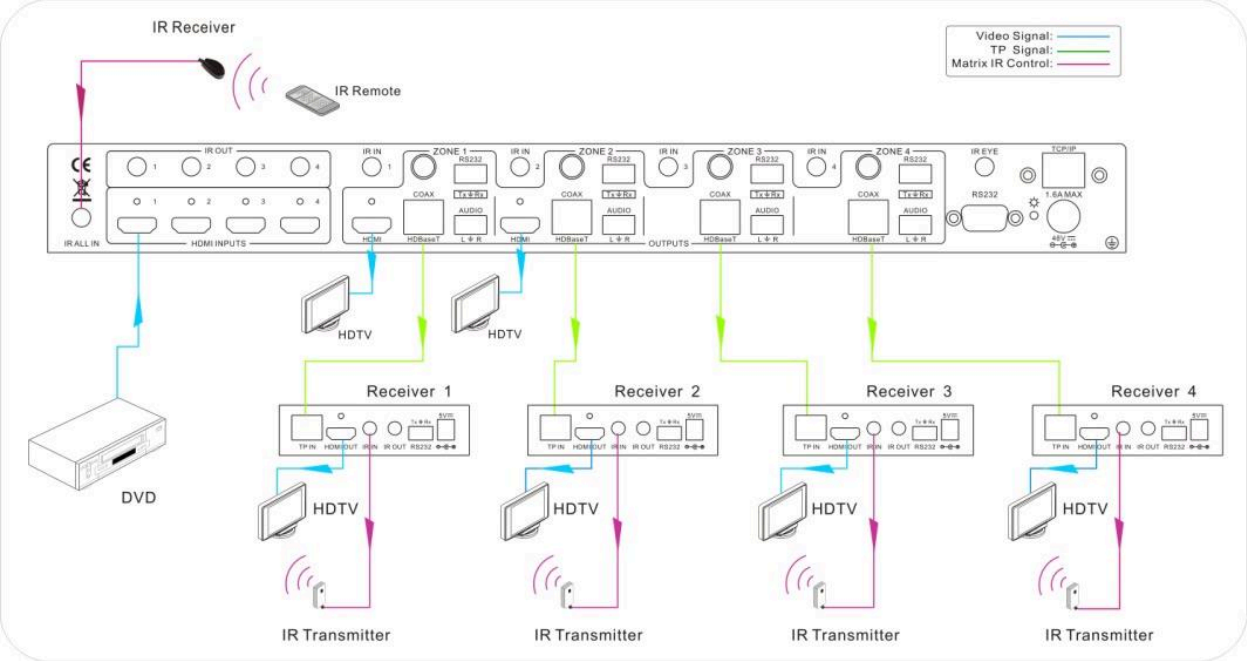
See figure below:



Control far-end device through IR ALL IN port

The IR signal received from IR ALL IN port will be transmitted to all the four far-end HDBaseT receivers connected to HDBaseT ports on the matrix switcher.

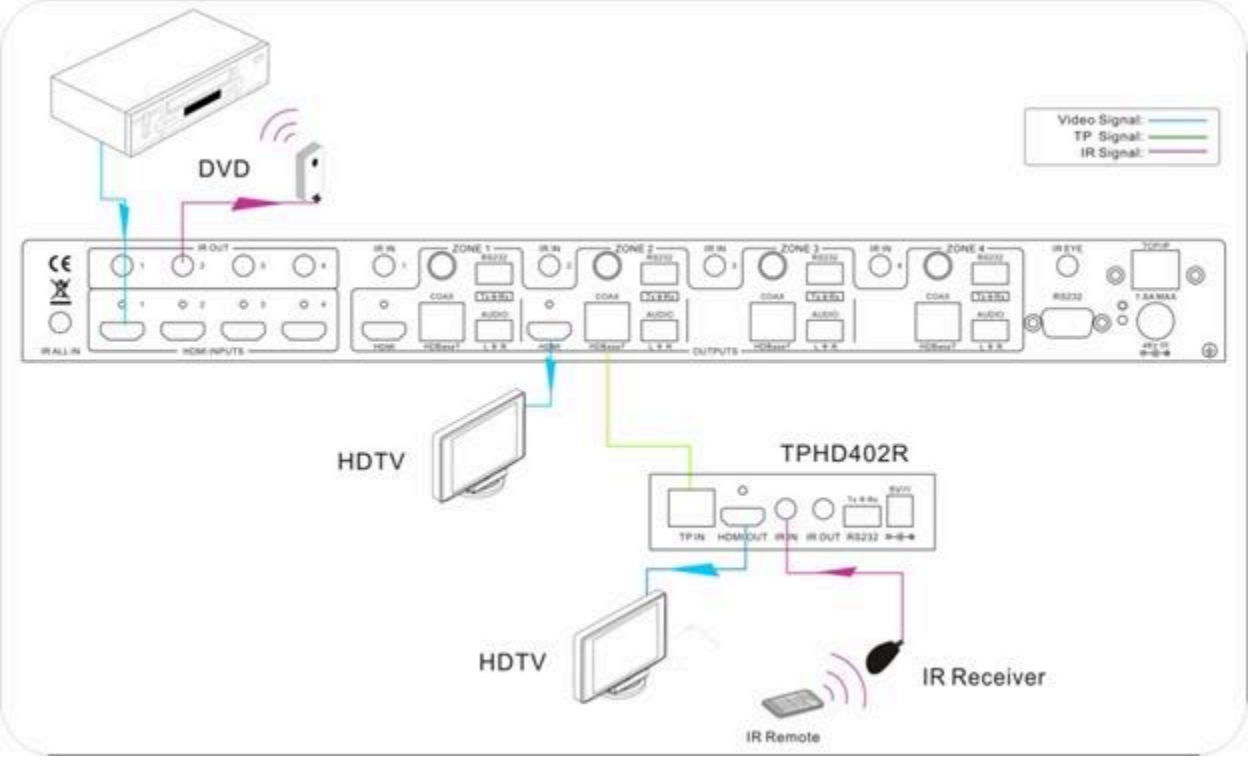
See figure below:



Control local device from remote

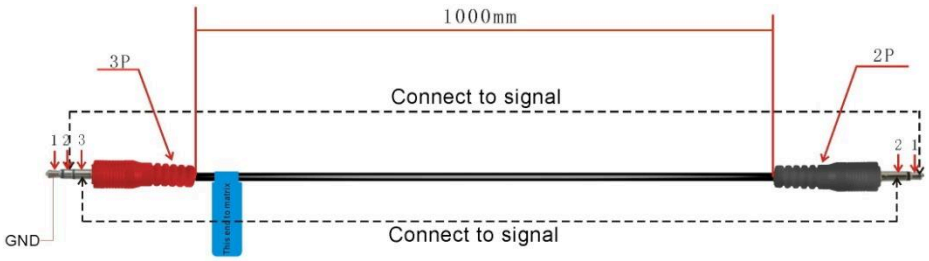
User can control local devices such as Blu-rays or the HDBaseT Matrix remotely. When using the IR signal received from the HDBaseT receiver will be transmitted to the corresponding IR OUT port of the HDBaseT 4x4 matrix switcher.

See figure below:



Controlled by a Third-party IR Control Device

Use the included IR converting cable (see as below) to connect the HDBaseT matrix to a third-party remote controller via a direct connection. Connect the red end to **IR Input** port on the HDBaseT matrix and the black end to **IR Output** port of the third-party control device. This allows the IR signal to be transmitted through the receivers to control a remote device.



6.3 RS-232 Control

Communication protocol:
Baud rate: 9600
Data bit: 8
Stop bit: 1
Parity bit: none
Connector type: DB9 FM (Use Straight Through Cable)

6.3.1 Commands

Command Types	Command Codes	Functions
System Command	/*Type;	Inquire the models information.
	/%Lock;	Lock the keyboard of the control panel on the Matrix.
	/%Unlock;	Unlock the keyboard of the control panel on the Matrix.
	/^Version;	Inquire the version of firmware
	/:MessageOff;	Turn off the feedback command from the com port. It will only show the “SWITCH OK”.
	/:MessageOn;	Turn on the feedback command from the com port.
	Demo.	Switch to the “demo” mode, 1->1, 2->2, 3->3 … and so on .The switching interval is 2 seconds.
	Undo.	To cancel the previous operation.
Operation Command	[x]All.	Transfer signals from the input channel [x] to all output channels
	All#.	Transfer all input signals to the corresponding output channels respectively.
	All$.	Switch off all the output channels.
	[x]#.	Transfer signals from the input channel [xq] to the output channel [x].
	[x]$.	Switch off the output channel [x].
	[x1] V[x2].	Transfer the AV signal from the input channel [x1] to the output channel [x2].
	[x1] B[x2].	Transfer the AV and IR signal from the input channel [x1] to the output channel [x2].
	[x1] R[x2].	Transfer the IR signal from the input channel [x1] to the output channel [x2].
	Status.	Inquire the input channel to the output channels one by one.
	Save[X].	Save the present operation to the preset command [X], ranges from 0 to 9.
	Recall[Y].	Recall the preset command [Y].
	Clear[Y].	Clear the preset command [Y].
	PWON.	Work in normal mode.
	PWOFF.	Enter into standby mode.
	STANDBY.	Enter into standby mode.

	/%[Y]/[X]:[Z].	HDCP management command. [Y] is for input (value: I) or output (value: O). [X] is the number of one port, if the value of X is ALL, it means all ports. [Z] is for working status (Value: 1 or 0). ➢ Y=I & Z=1, means the input port is compliant with HDCP. ➢ Y=O & Z=1, means output with HDCP. ➢ Y=I & Z=0, means the input port is not compliant with HDCP. ➢ Y=O & Z=0, means output without HDCP.
	DigitAudioON[x].	Enable HDMI audio output of port x. ● X=1, 2, 3, 4, enable this one port. ● X=5, enable all the 4 ports.
	DigitAudioOFF[x].	Disable HDMI audio output of port x. ● X=1, 2, 3, 4, disable this one port. ● X=5, disable all the 4 ports.

	/+[Y]/[X]:******.	Send embedded RS-232 commands to device at HDBaseT receiver. ➢ Y is for RS-232 port (connect with RS-232 port of HDBaseT receiver) Value = 1,2,3,4,5,A,B,C,D,E,F,G or H The value of **Y** is defined into the following meanings (in a given baud rate depended by the value of X): **a.** Y = **1**, **2**, **3** or **4**, send this command to the corresponding HDBaseT receiver to control far-end device. **b.** Y = **5**, send this command to all HDBaseT receivers to control all far-end devices. **c.** Y = **A**, **B**, **C** or **D** **d.** Y = **E**, **F**, **G** or **H** For items **c** or **d**, send this command, it will be saved to the matrix switcher but taken without action to corresponding HDBaseT receiver. And its command function will be effective almost at the same time when you send the command **PWON** (for item **c**) or **PWOFF** (for item **d**). **Note:** **A** & **E** are for port **1.** **B** & **F** are for port **2.** **C** & **G** are for port **3.** **D** & **H** are for port **4.** ➢ X is for bound rate (Value ranges from 1 to 7, 1 is for 2400, 2 for 4800, 3 for 9600, 4 for 19200, 5 for 38400, 6 for 57600 and 7 for 115200) ➢ ***** is for data (**Max length 48 Bytes**) The symbol "." is the end of one command. If there are some symbols of "." in one command, this case is allowed and the last one is the end.
	%0801.	Enable inputs with HDCP management.
	%0800.	Disable inputs with HDCP management.
	%0900.	Set as infrared carrier following mode.
	%0901.	Set as infrared carrier enforcing mode.
	%0911.	Reset to factory default.
	%9951.	Check the command sent by port 1 when PWON.
	%9952.	Check the command sent by port 2 when PWON.
	%9953.	Check the command sent by port 3 when PWON.
	%9954.	Check the command sent by port 4 when PWON.
	%9955.	Check the command sent by port 1 when PWOFF.
	%9956.	Check the command sent by port 2 when PWOFF.
	%9957.	Check the command sent by port 3 when PWOFF.
	%9958.	Check the command sent by port 4 when PWOFF.
	%9961.	Check the system locking status.
	%9962.	Check the status while in standby mode.
	%9963.	Check the working mode of infrared carrier.
	%9964.	Check the IP address (**only for the PCB with GUI**).

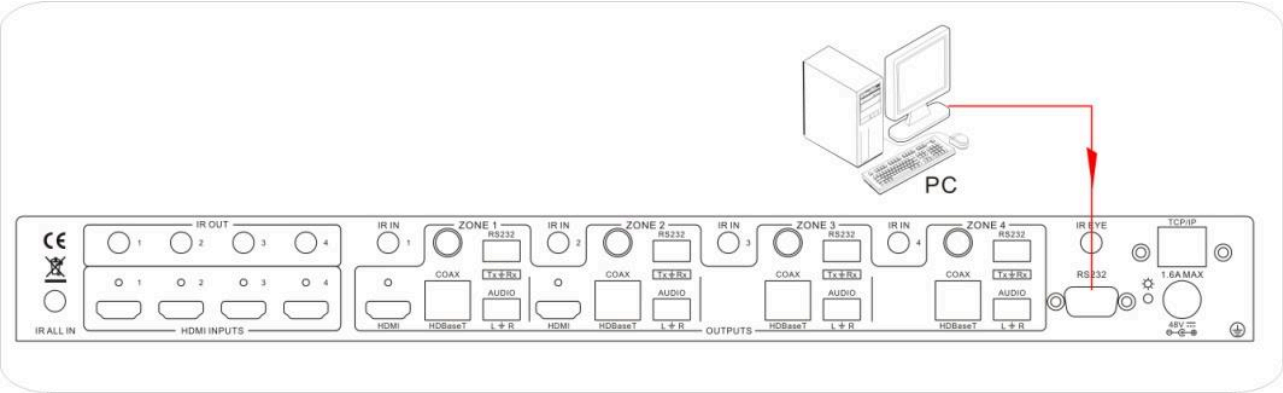
	%9971.	Check the connection status of the inputs.
	%9972.	Check the connection status of the outputs.
	%9973.	Check the HDCP status of the inputs.
	%9974.	Check the HDCP status of the outputs.
	%9975.	Check the switching status.
	%9976.	Check the output resolution.
	%9977.	Check the status of digital audio of output channels.
	EDIDH[x]B[y].	Copy the EDID from output port [x] to input port [y]. If the EDID data is correct and the audio part does not support PCM mode, then force-set PCM mode. If the EDID data is not correct, then set it as initialized EDID data.
	EDIDG[x].	Get EDID data from the output and display the output port number of X.
	EDIDMInit.	Recover the factory default EDID data.
	EDIDUpgrade[x].	Upgrade EDID data via the RS-232 port [X] is for input port. When the value of X is 5, upgrade all 4 input ports. When the switcher gets the command, it will show a message to send EDID file (.bin file). Operations will be canceled after 10 seconds. (Note 1)
	UpgradeIntEDID[x].	Select one type of EDID data and upgrade built-in EDID data. Supports 4 types of EDID data: 1. 1080P, 2D, PCM2.0 2. 1080P, 2D, 5.1 (audio) 3. 1080P, 3D, PCM2.0 4. 1080P, 3D, 5.1 (audio) [x] = 1, 2, 3 or 4 When the switcher gets the command, it will show a message to send EDID file (.bin file). Operations will be canceled after 10 seconds.
	EDIDM[X]B[Y].	➢ Copy the EDID data of output[X] to the input[Y]. Only for HDBaseT outputs. Do not use the Local HDMI outputs.

Notes:
1. Disconnect all the HDBaseT cables before sending command EDIDUpgrade[X].
2. In above commands, “[”and “]” are symbols for easy reading and do not need to be typed in actual operation.
3. Please remember to end the commands with the ending symbols “.” and “;”.
4. Commands are case-sensitive.

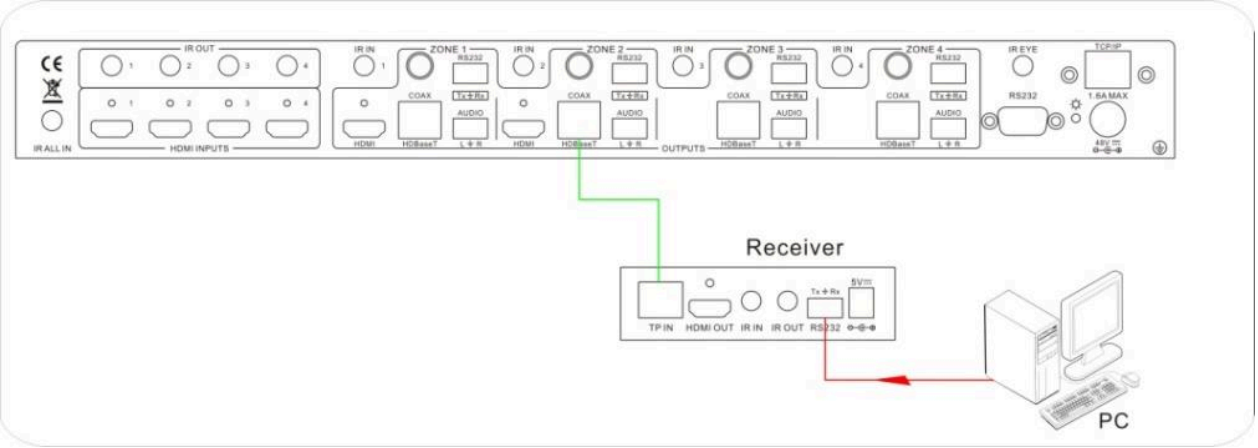
6.3.2 Control the HDBaseT 4x4 Matrix Switcher

To control the HDBaseT 4x4 matrix switcher connect its 9 pin female RS-232 port to a PC's or control system's RS-232 port. It is also possible to control the Matrix using one of the HDBaseT receiver's RS-232 ports.

Control the HDBaseT 4x4 Matrix Switcher from local



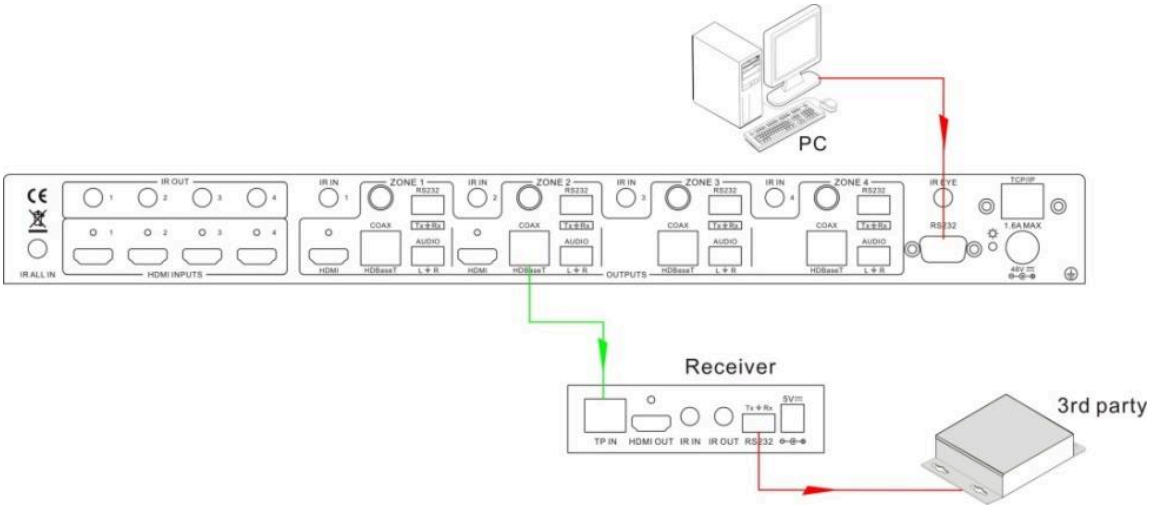
Control the HDBaseT 4x4 Matrix Switcher from remote



Control Display or 3rd-Party Device from Local

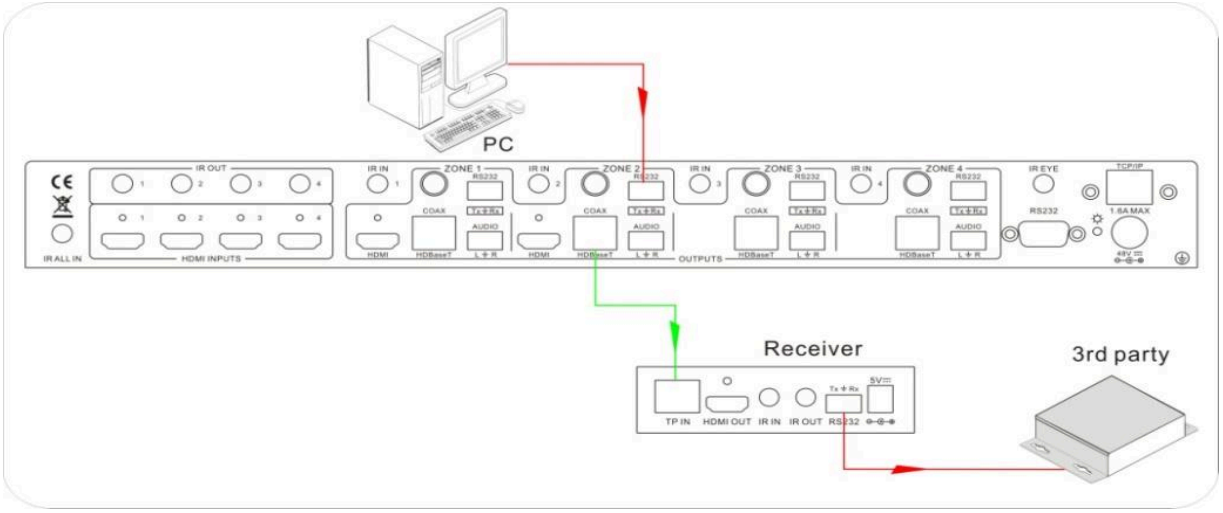
From a control system connected to the 9 pin female RS-232 port on the HDBaseT matrix use the embedded RS-232 command "/**+[Y]/[X]:******.**" to send data to a device at the HDBaseT receiver. This method does not allow for bi-directional control.

Please reference to the detailed command description *in 6.3.1 RS-232 Commands.*



Control far-end device from local

Connect the RS-232 (3P captive screw) port in one zone to PC, and connect the controlled RS-232 device (3rd party device) to the corresponding (same zone as PC) receiver. This method allows for bi-directionally RS-232 data between controller and device at receiver.

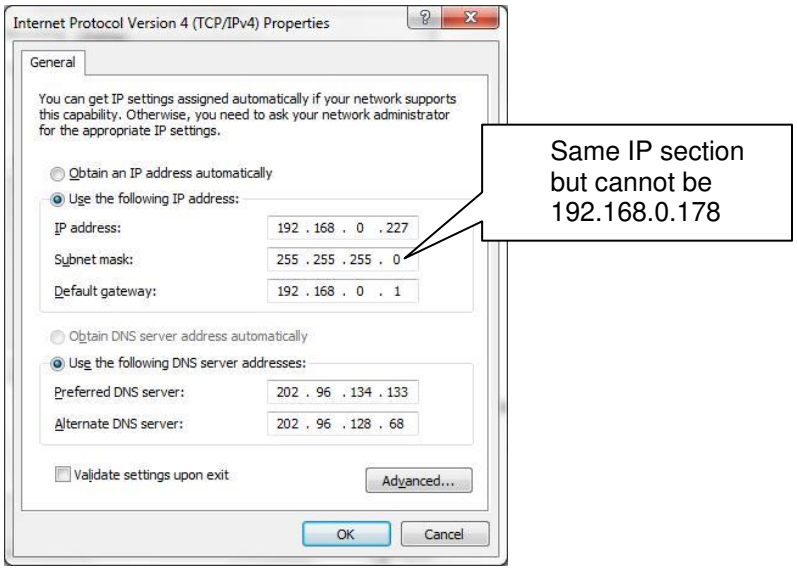


6.4 TCP/IP Operation - Optional

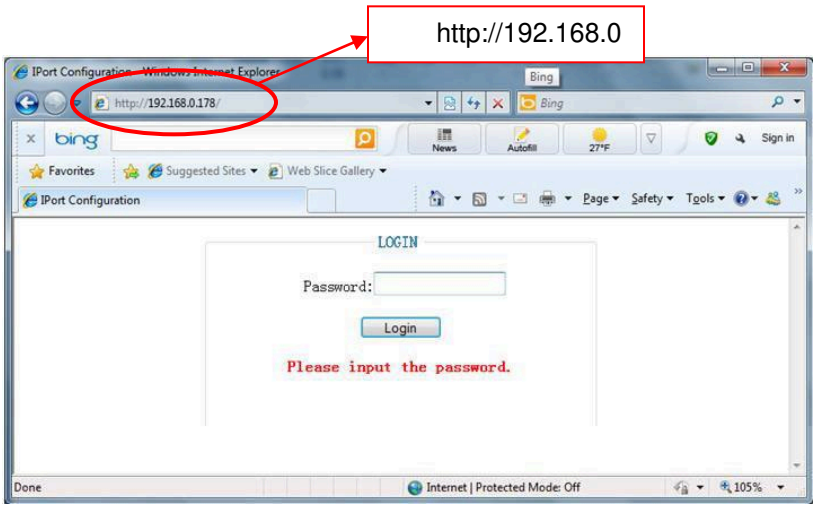
The optional network port of TEK-MHD44TP is used for sending commands using TCP/IP control. These commands are sent the same as when using RS-232 control at TCP/IP port 4001. There is no Web based control for the unit. The Web interface is used for network configuration only.

6.5 IP Configuration

To connect a computer to the network port you must use a crossover network cable or network switch. Set its IP address of the PC to the same IP VLAN as the default IP is address or the unit (192.168.0.178).

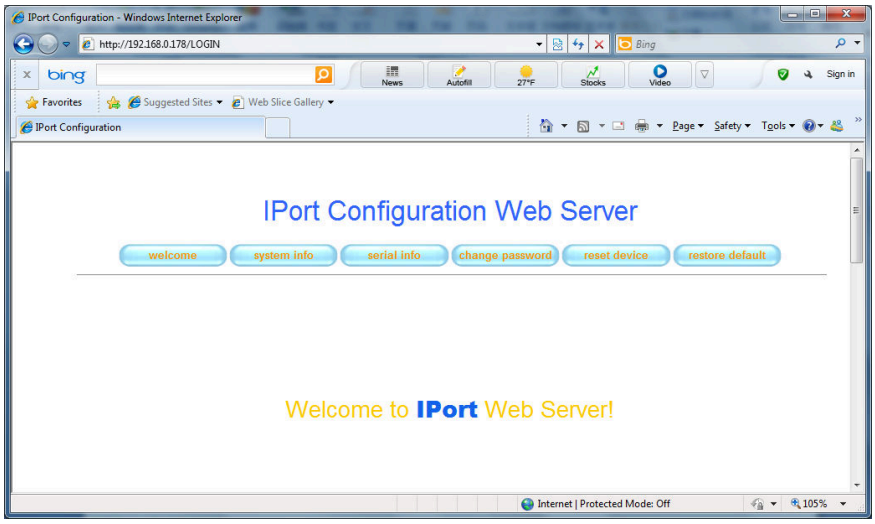


Enter the IP address 192.168.0.178 into Internet Explorer; you will see the LOGIN page as below:



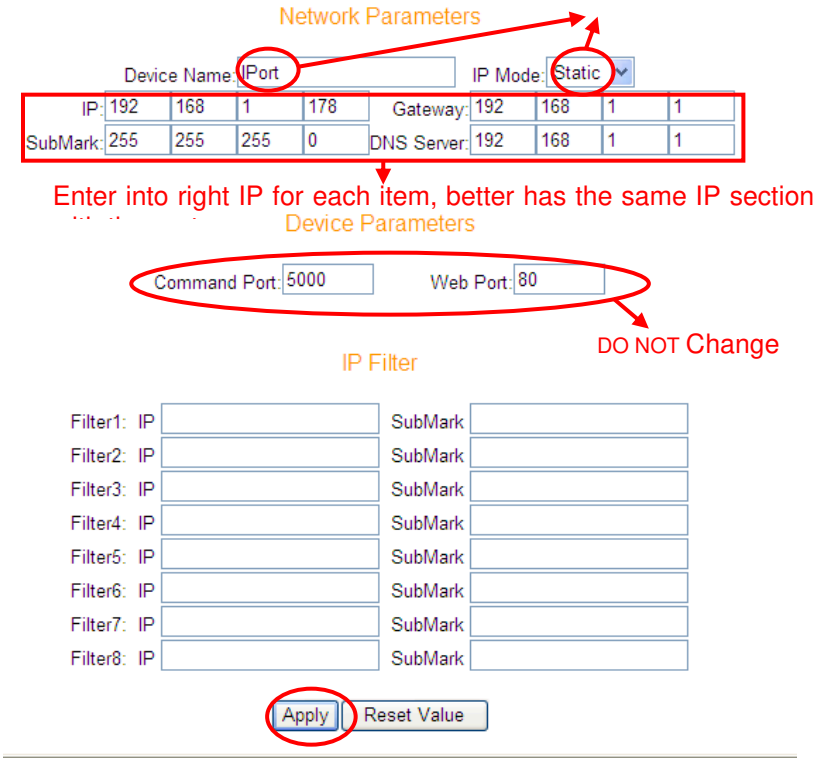
Enter the password “88888”, and then you can enter the configuration page to configure the IP port, including the IP reset, PW reset etc.

Note: Serial configuration cannot be changed.



6.5.1 Change IP/Serial Port

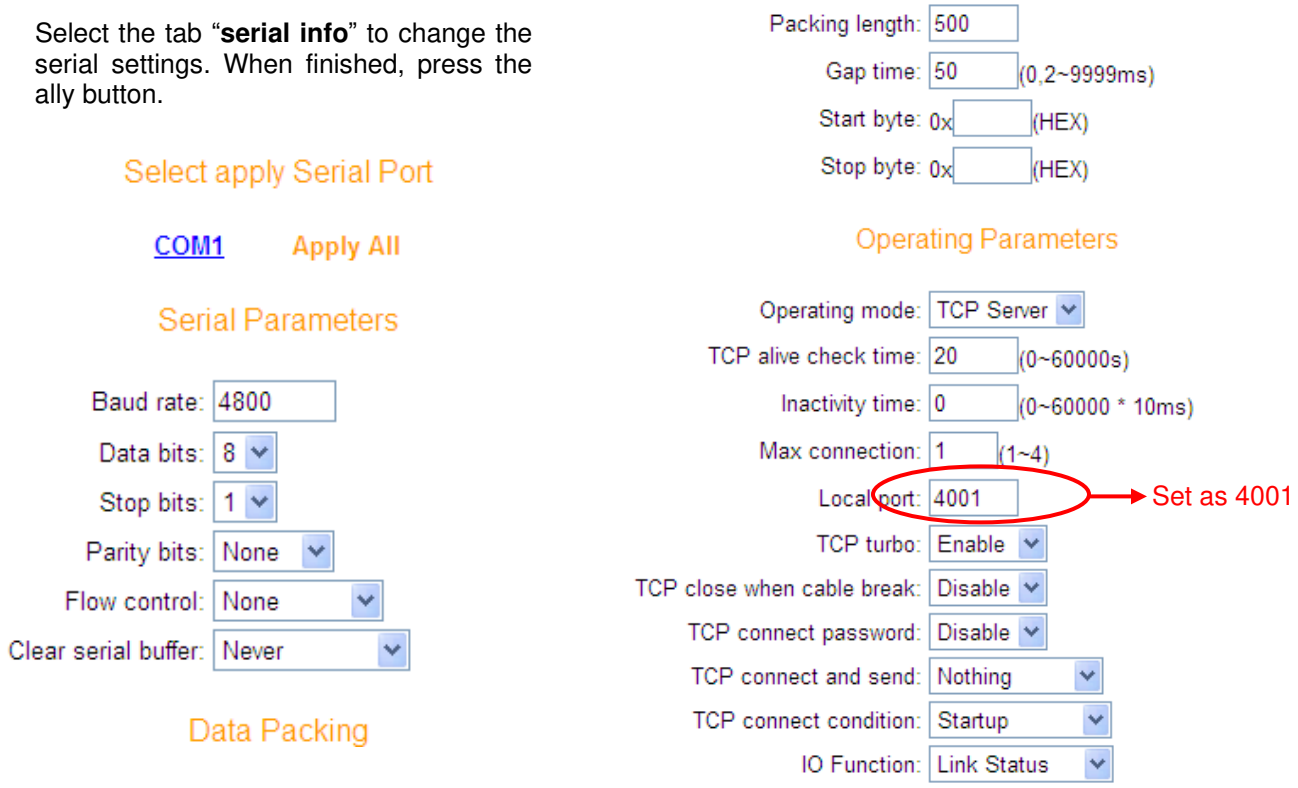
Select the tab "**system info**" to change the IP settings. **Make certain the new IP address is written down. Best to keep the IP address settings listed on the on Matrix. You cannot get these settings from the front panel menus.**



After configuration, reset device to use the new IP address for controlling Matrix.

Change Serial Port and Network Port Number

Select the tab "**serial info**" to change the serial settings. When finished, press the ally button.

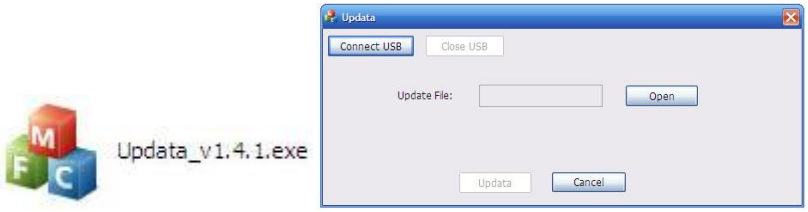


6.6 Connection and Control

To send IP commands to the TEK-MHD44TP connect using TCP/IP port 4001 and the set IP address of the unit. Use the standard serial commands from a control system or program that can send a complete command line. You cannot type the command using a Telnet program.

7. Firmware Updating

To meet with the request of different users or add function in future, the firmware of TEK-MHD44TP can be upgraded via USB. When you need to upgrade it, download the latest upgrade file and use the update EXE software. Copy the EXE software to the PC and double chick the program to run the program. Connect a Micro USB, like the one for a Samsung Smartphone, to the front of the unit and cycle power. Click on Open and select the firmware file and then press Connect USB. If the connection is successful, press update.



8. Technical Specification

Video Input		Video Output	
Input	4 HDMI	Output	2 HDMI 4 HDBaseT
Input Connector	Female HDMI	Output Connector	Female HDMI Female RJ45(with LED indicators)
Input Level	T.M.D.S. 2.9V/3.3V	Output Level	T.M.D.S. 2.9V/3.3V
Input Impedance	100Ω (Differential)	Output Impedance	100Ω (Differential)
Video General			
Gain	0 dB	Bandwidth	6.75Gbit/s
Video Signal	HDMI (or DVI-D)	Maximum Pixel Clock	165MHz
Resolution Range	Up to 1920 x 1200 or 1080P@60Hz	Switching Speed	200ns (Max.)
Transmission Distance	200 feet with PoE		
EDID Management	EDID data and manual EDID management		
HDCP	Supports HDCP 1.3, auto and manual HDCP management.		
Audio General			
Output Signal	Stereo audio Digital audio	Output Connector	4 3p captive screw connectors 4 Coax (RCA)
Stereo Output	200 ohm	Coax Output	Supports PCM, Dolby, DTS 5.1
Frequency Response	20Hz~20KHz		
Control Parts			
Control Ports	4 IR OUT (green) 4 IR IN (black) 1 IR EYE (black) 1 TCP/IP (female RJ45) 1 RS-232 (9 pin female D) 4 RS-232 (3p captive screw connectors)	Panel Control	Front panel buttons
IR	Default IR remote Extend IR EYE	TCP/IP Control	Works with PTNET2.2
General			
Power Supply	Input: 100VAC ~ 240VAC, 50/60Hz Output: DC48V,1.6A	Power Consumption	48W
Temperature	-20 ~ +70℃	Humidity	10% ~ 90%
Case Dimension	W19 x H1.73 x D9.25 IN. (1U high, full rack wide)	Product Weight	1.8Kg

Specifications are subject to change without notice.

9. Troubleshooting & Maintenance

Most video issues are due to bad cables or the cable lengths are too long. Please check all connections before sending unit back for repair. Other issues may include improper EDID configuration.

10. Warranty

TEKVOX, Inc. warrants this product against defects in workmanship and materials for a period of Three Years from the date of purchase. During the warranty period, if failure is caused from faulty workmanship and/or materials, TEKVOX, Inc. will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction.

This Limited Warranty does not apply if fault is caused by misuse, improper handling, electrical or mechanical abuse, abnormal operating conditions or non-TEKVOX authorized modifications to said product.

If it has been determined product is defective, please call TEKVOX and ask for an Applications Engineer at (210) 348-6565 (USA) to receive an RMA # (Return Material Authorization Number) to begin the repair process as quickly as possible.

Units must be returned with prepaid shipping charges. Please insure package. If not insured you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the contact person in case there are any questions.

TEKVOX, Inc. makes no further warranties either expressed or implied with respect to said product, or its quality, performance, or operation for any particular use. In no event will TEKVOX, Inc. be liable for direct, indirect, or consequential damages resulting from any defect in this product even if TEKVOX, Inc. has been advised of such damage. Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.