



4x4 HDBaseT Matrix Kit 4K User's Guide



P/N:Matrix44-HDBT

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Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device
- Do not expose this unit to rain, heavy moisture, or liquid
- Do not put any items into the device or attempt to modify its operation
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty
- Keep the product in a well-ventilated location to avoid damage from overheating
- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports
- Use the included power adapter only. Make sure the specification matches if using 3rd-party DC power adapters

Introduction

The 4x4 HDBaseT Matrix Kit 4K allows you to select and switch between any of the 4 HDMI source devices to display on any of the 3 HDBaseT outputs and one HDMI output.

Features

- Transmits HDMI signals in 1080p up to 70 meters and 4K signals up to 40 meters over high quality CAT cable via HDBaseT technology
- Local HDMI port transmits 4K signals up to 8 meters via HDMI cable for additional HDMI extension
- Supports Power over Cable (PoC) technology, allowing the HDBaseT receivers to be powered by the Matrix Switcher over CAT cables
- Supports bidirectional IR remote control to control the source device or display device from long distances
- Smart EDID management allows you to select the output resolution to match the connected displays
- Compliant with HDMI 1.4 and HDCP 2.2 specifications

Installation Requirements

- HDMI source device (DVD player, set top box, PC, etc.)
- HDMI display device (SDTV/Monitor, HDTV/Monitor, projector, etc.)
- HDMI cables (not included)
- CAT cables (not included)

Package Contents

4x4 HDBaseT Matrix Switcher

- 1x 4x4 HDBaseT Matrix Switcher
- 2x Mounting ears with 6 screws
- 4x Plastic pads
- 1x IR remote control
- 4x IR receiver cables
- 4x IR emitter cables
- 1x RS232 cable (Phoenix to 9-pin D-Sub)
- 1x Power adapter (24VDC/2.71A)
- 1x User manual

HDBaseT Receiver

- 3x HDBaseT Receivers
- 6x Mounting ears with 6 screws
- 12x Plastic pads

Product Layout

HDBaseT Matrix Switcher



Figure 1: HDBaseT Matrix Switcher Front Panel Layout

| No. | Name | Description |
|-----|---------------------------|--|
| ① | FIRMWARE | Micro USB port for updating firmware |
| ② | Power Indicator | ➤ OFF : No power; ➤ RED : DC power present or Standby Mode |
| ③ | INPUT selector Indicators | Total 4 groups, and each group is set up including 4 green indicators for 4 input sources, numbered from "1" to "4". |
| ④ | Output selector button | Total 4 output selector buttons, press the buttons to switch input cycle for the output. |

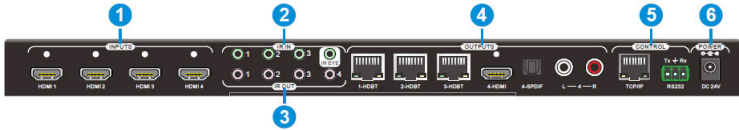


Figure 2: HDBaseT Matrix Switcher Rear Panel Layout

| No. | Name | Description |
|-----|-------------|---|
| ① | HDMI INPUTS | 4 x HDMI input ports, type A female HDMI connector, connect the Source with an HDMI cable to any of the HDMI inputs. |
| ② | IR IN | <ul style="list-style-type: none"> ➤ 3 x IR IN: Connect with IR receiver, fixed IR input for the output, cannot be switched separately. It makes up an IR bi-directional transmission with the IR OUT on the corresponding HDBaseT receiver. ➤ 1 x IR EYE: Connect with extended IR receiver, use the IR remote to control the Matrix Switcher. |
| ③ | IR OUT(1~4) | Plug in the IR Emitter and attach to the front of the Source. This then emits the IR signal received from the HDBaseT Receiver. |
| ④ | OUTPUTS | <ul style="list-style-type: none"> ➤ HDBaseT: The HDBT RJ45 outputs deliver HD video, Audio and PoC to the HDBaseT Receiver up to 70m. ➤ HDMI: Connect an HDMI cable from the Matrix Switcher to the displayer. ➤ SPDIF: Digital audio output connects directly via an optic fibre cable to the Toslink input on a sound bar. ➤ RCA (L&R): PCM Analogue audio output sockets connect the de-embedded audio additional speakers. |
| ⑤ | Control | <ul style="list-style-type: none"> ➤ TCP/IP: RJ45 port. Connect with PC for Web-based GUI control. ➤ RS232: Serial port for unit control, 3-pin pluggable terminal block, connects with control device (e.g. PC). |
| ⑥ | DC 24V | Connect with DC24V 2.71A power adaptor. |

HDBaseT Receiver

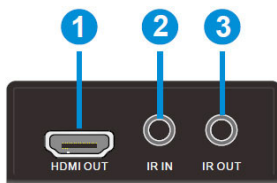


Figure 3: HDBaseT Receiver Front Panel Layout

| No. | Name | Description |
|-----|----------|---|
| ① | HDMI OUT | Connect to HDMI display. |
| ② | IR IN | Plug in the IR receiver, this will receive the IR signals from the RCU and send through to the Matrix Switcher and then control the desired source. |
| ③ | IR OUT | Plug in the IR emitter and attached to the front of the display, this will send the IR signals form the Matrix Switcher to control the display which is connected to the HDMI OUT port. |

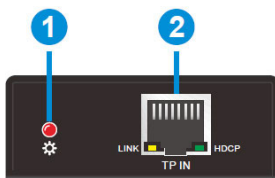


Figure 4: HDBaseT Receiver Rear Panel Layout

| No. | Name | Description |
|-----|-----------------|--|
| ① | Power Indicator | <ul style="list-style-type: none"> ➤ OFF: No power; ➤ RED: DC power present (PoC). |
| ② | TP IN | <p>The RJ45 socket has two LED status indicators. Plug in the Pre-installed CAT cable in to the HDBT RJ45 socket.</p> <ul style="list-style-type: none"> ➤ HDCP: HDCP compliant indicator <ul style="list-style-type: none"> ✦ OFF: No HDMI traffic (no picture) ✦ GREEN: Signals with HDCP. ✦ Blinking GREEN: Signal without HDCP ➤ LINK: HDBT Link status indicator. <ul style="list-style-type: none"> ✦ OFF: No Link ✦ YELLOW: Link Successful ✦ Blinking YELLOW: Link Error |

Hardware Installation

1. Power off all devices including your HDMI source(s) and HDMI display(s).
2. Connect your HDMI source device(s) to the HDBaseT Matrix Switcher's HDMI Input connector with an HDMI cable (HDMI cable not included).
3. Connect your CAT cable between the HDBaseT Matrix Switcher and HDBaseT Receivers.
4. Optional: Connect an HDMI display to the HDMI output of the HDBaseT Matrix Switcher using an HDMI cable (HDMI cable not included).
5. Connect your HDMI display to the HDBaseT Receiver's HDMI Output port with an HDMI cable.
6. Optional: Connect the IR Receiver cable and the IR emitter cable to the IR interface port. This connection is needed only if you need to control your HDMI devices from the remote location. See IR Control, on page 9 for proper IR connection.
7. Optional: Connect an AVR amplifier to the S/PDIF or Toslink output port.
8. Optional: Connect speakers to the matrix switcher's L&R output port via RCA cable.
9. Optional: Connect the included RS232 cable between the matrix switcher's RS232 socket and your PC's serial port or a CAT cable between the matrix switcher's ethernet port and router or PC's ethernet port. This connection is needed only if matrix device control using a PC is required.
11. Plug the included power adapter into the matrix switcher's Power Jack, then plug the power adapter into a reliable power outlet.
12. Power on all connected devices. The Matrix Switcher is ready for use.

Application Diagram

The application diagram shows the most typical input and output devices used with the 4x4 HDBaseT Matrix Kit 4K.

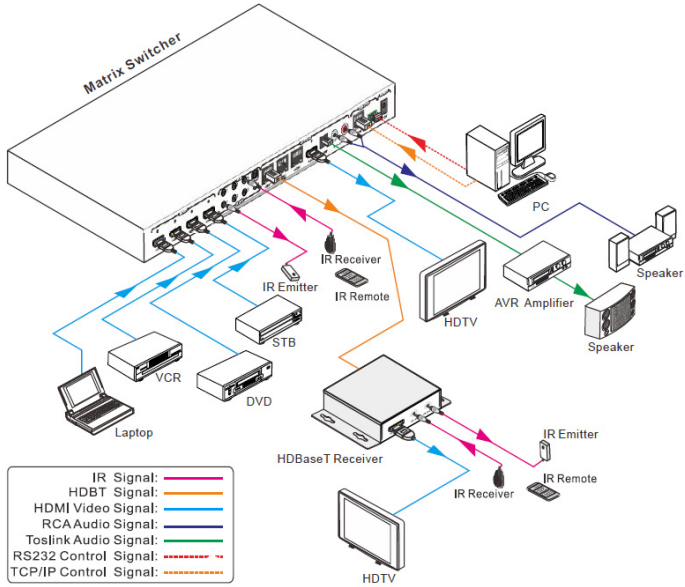


Figure 5: Application Diagram

IR Control

Provides IR control of the connected devices. The IR feature is bidirectional so either the source device or the display device(s) can be remotely controlled.

IR Remote

Users can control the Matrix Switcher using the included remote. Connect an IR receiver cable to the IR Eye of the Matrix Switcher.

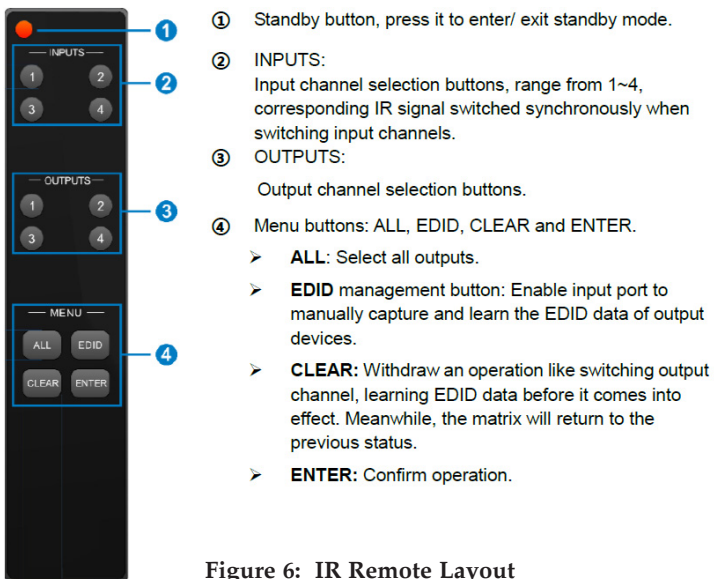


Figure 6: IR Remote Layout

Controlling the Matrix Switcher

1) To convert one input to an output:

Example: Input 1 to Output 3

→ Press INPUTS 1 + OUTPUTS 3 + ENTER

NOTE:

Default status, on first boot up this matrix assigns the IR outputs to the corresponding HDMI input, meaning, IR out 1 is directly associated to HDMI input 1 and so on. When you switch an HDMI input to a different output, the corresponding IR OUT will be switched synchronously to allow the IR commands to be sent from the select zone back through the Matrix Switcher to the source.

2) To convert an input to several outputs:

Example: Convert Input 2 to Output 3 and 4

→ Press INPUTS 2 + OUTPUTS 3 + OUTPUTS 4 + ENTER

3) To convert an input to all outputs:

Example: Input 1 to all Outputs

→ Press INPUTS 1 + ALL + ENTER

By using IR & HDBaseT transmission technology, the HDMI HDBaseT 4x4 4K Matrix Kit has the functions as follows:

- 1) Control far-end output device from local.
- 2) Control local input/output device remotely.
- 3) Control the Matrix Switcher locally/remotely.

4.1.2 Force Carrier

- a) Only if the IR receiver connected to HDBaseT receiver is with IR carrier, can the received IR signal be transferred to IR OUT port of the Matrix Switcher.
- b) Only if the IR receiver connected to the Matrix Switcher is with IR carrier, can the received IR signal be transferred to IR OUT port of the Matrix Switcher.

If the IR receiver connected to HDBaseT receiver or the Matrix Switcher is without an IR carrier signal, send the command "%0901." to enter infrared carrier enforcing mode, and then IR signal can be transferred to IR OUT port.

Controlling the Display Device(s)

1. Connect an IR Receiver cable to the IR In port of the HDBaseT Splitter.
2. Connect an IR Emitter cable to the IR Out port on each HDBaseT Receiver.
3. Point the IR Emitter cable's IR eye in line with the IR receiver on the display device.

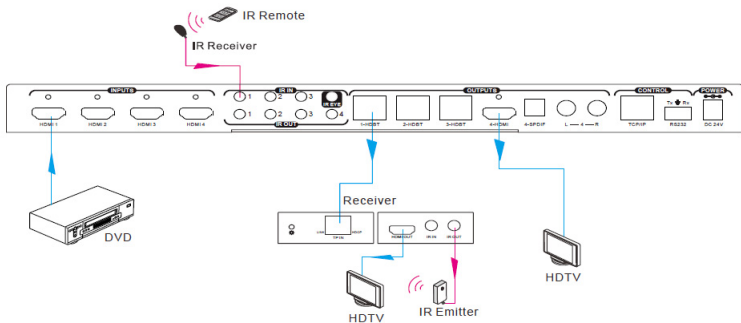


Figure 7: Display Device IR Control Connection Diagram

Controlling the Source Device

1. Connect an IR Emitter cable to the IR Out port of the Matrix Switcher.
2. Point the IR Emitter cable's IR eye in line with the IR receiver on the source device.
3. Connect an IR Receiver cable to the IR In port on each HDBaseT Receiver.

Single Source Device IR Control

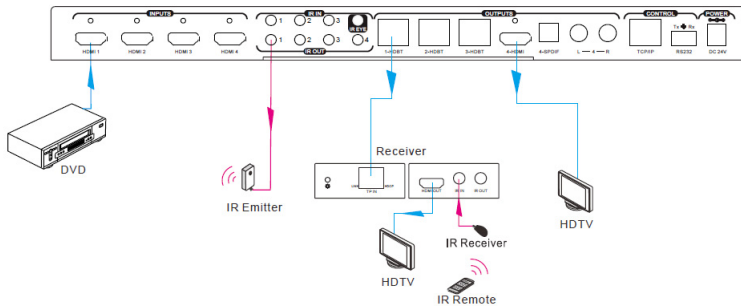


Figure 8: Single Source Device IR Control Connection Diagram

Multiple to Multiple Device IR Control (Matrix)

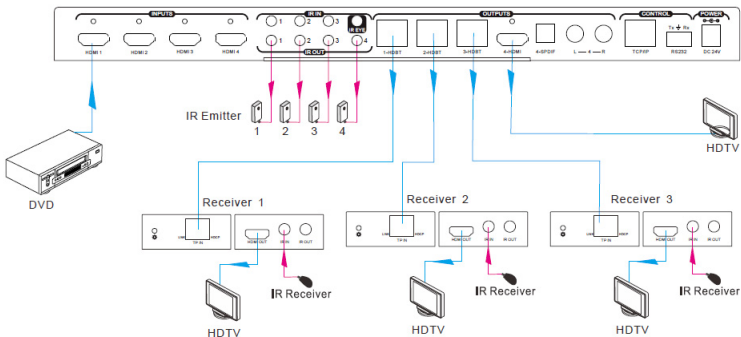


Figure 9: Multiple to Multiple Device IR Control Connection Diagram

RS232 Control

Connect the control PC's RS232 serial port to the Matrix Switch's RS232 port using the included RS232 cable.

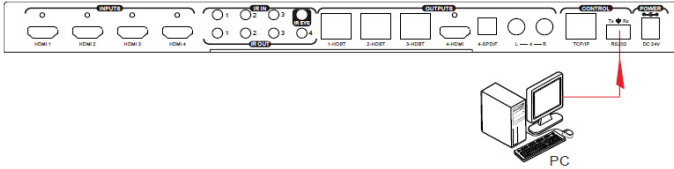


Figure 10: RS232 Control

RS232 Control Software

Works with most serial command and monitoring software such as CommWatch.

- Download CommWatch or the serial command software of your choice
- Installation: Copy the control software files and paste them to the hard drive of your PC
- Uninstallation: Delete all control software files from the PC

Basic Settings

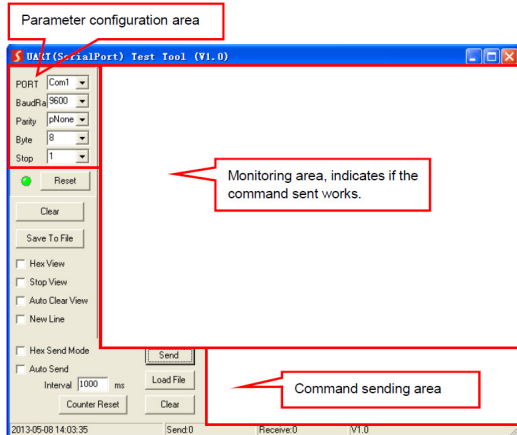
1. Connect all input and output devices as needed, then connect the PC to the Matrix Switcher.
2. Double click the software icon to run the control software. The icon is shown below.



The examples shown on this page and the following page are from CommWatch serial command software.

Control Software Interface

Set the COM port, Baud rate, data bit, stop bit, and parity.
Enter commands into the Command Sending Area.



RS232 Commands

Default settings: Baud rate: 9600, Data bit: 8, Stop bit: 1, Parity bit: none.

RS232 Commands

| Command | Function | Feedback Example |
|---------------------------|--|---|
| System Commands | | |
| /*Type; | Inquire the models information. | XXXXX |
| /%Lock; | Lock the front panel buttons on the Matrix. | System Locked! |
| /%Unlock; | Unlock the front panel buttons on the Matrix. | System Unlock! |
| /^Version; | Inquire the version of firmware | VX.X.X |
| Demo. | Switch to the "demo" mode, convert input and output in turn like 1B1, 1B2, ...4B3, 4B4, 1B1... and so on .The switching interval is 2 seconds. | Demo Mode AV:01->01 IR:01->01 AV:01->02 IR:01->02 AV:04->04 IR:04->04 |
| Operation Commands | | |
| [x]All. | Transfer signals from the input channel [x] to all output channels | X To All. (X=01~04) |
| All#. | Transfer all input signals to the corresponding output channels respectively like 1->1, 2->2... | All Through. |
| All\$. | Switch off all the output channels. | All Closed. |
| [x]#. | Transfer signals from the input channel [x] to the output channel [x]. | X Through. (X=01~04) |
| [x]\$. | Switch off the output channel [x]. | X Closed. (X=01~04) |
| [x]@. | Switch on the output channel [x]. | X Open. (X=01~04) |
| All@. | Switch on all output channels. | All Open. |
| [x1]V[x2]. | Transfer the AV signal from the input channel [x1] to one or several output channels ([x2], separate output channels with comma). | AV: X1-> X2 (X1/X2=01~04) |
| [x1]B[x2]. | Transfer the AV and IR signal from input channel [x1] to one or several output channels ([x2], separate output channels | AV: X1-> X2 (X1/X2=01~04) |

RS232 Commands

| Command | Function | Feedback Example |
|-------------------|---|--|
| | with comma). | |
| [x1] R[x2]. | Transfer the IR signal from output [x1] to input [x2]. | IR: X1-> X2(X1, X2=01~04) |
| Status[x]. | Check the I/O connection status of output [X] | AV: Y-> X (X=01~04, Y=01~04) |
| Status. | Inquire the input channel to the output channels one by one. | AV: 01->01 AV: 04->04 IR: 01->01 IR: 04->04 |
| Save[Y]. | Save the present operation to the preset command [Y], ranges from 0 to 9. | Save To FY (Y=0-9) |
| Recall[Y]. | Recall the preset command [Y]. | Recall From FY (Y=0-9) |
| Clear[Y]. | Clear the preset command [Y]. | Clear FY (Y=0-9) |
| PWON. | Work in normal mode. | PWON |
| PWOFF. | Enter into standby mode and cut off the power supply to HDBaseT receivers. | PWOFF |
| STANDBY. | Enter into standby mode. (Do not cut off the power supply to HDBaseT receivers, press other buttons or send other commands to start.) | STANDBY |
| /%[Y]/[X]:[Z]. | HDCP management command. [Y] is for input (value: I) or output (value: O); [X] is the number of the port, if the value of X is ALL, it means all ports; [Z] is for HDCP compliant status, the value may be 1 (HDCP compliant) or 0 (not HDCP compliant). | /%[Y]/[X]:[Z]. |
| DigitAudioON[x]. | Enable HDMI audio output of port x. ● X=1, 2, 3, 4, enable this port. ● X=5, enable all the 4 ports. | DigitAudio ON with [x] |
| DigitAudioOFF[x]. | Disable HDMI audio output of port x. ● X=1, 2, 3, 4, disable this port. ● X=5, disable all the 4 ports. | DigitAudio OFF with [x] |
| /+[Y]/[X]:*****. | Set communication between PC and HDBaseT receiver. | ***** |

RS232 Commands

| Command | Function | Feedback Example |
|---------------|--|------------------|
| | <p>① Y is for RS232 port (connect with RS232 port of HDBaseT receiver) Y= 1~5 or A~H, The value of Y is defined into the following meanings (in a given baud rate depended by the value of X):</p> <ol style="list-style-type: none"> a. Y = 1~4, 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 <p>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).</p> <p>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.</p> <p>② X is for baud rate, its value ranges from 1 to 7 (1--2400, 2--4800, 3--9600, 4--19200, 5--38400, 6--57600, 7--115200)</p> <p>③ ***** is for data (max 48 Byte)</p> | |
| EDIDH[x]B[y]. | <p>Input port [y] learns the EDID from output port [x]. If the EDID data is available and the audio part supports not only PCM mode, then force-set it to support PCM mode only. If the EDID data is not available, then set it as initialized EDID data.</p> | EDIDH[x]B[y] |
| EDIDPCM[x]. | <p>Set the audio part of input port [x] to PCM format in EDID database.</p> | EDIDPCM[x] |

RS232 Commands

| Command | Function | Feedback Example |
|--------------------|--|---|
| EDIDG[x]. | Get EDID data from output [x] and display the output port number. | Hexadecimal EDID data and carriage return character |
| EDIDMInit. | Restore the factory default EDID data of every input. | EDIDMInit. |
| EDIDM[X]B[Y]. | Manually EDID switching. Enable input[Y] to learn the EDID data of output[X]. If the EDID data is not available, then set it as initialized EDID data. | EDIDM[X]B[Y] |
| EDIDUpgrade[x]. | Upgrade EDID data via the RS232 port. [x] is the input port, when the value of X is 5, it means to upgrade all input ports. When the switcher receives the command, it will show a message to prompt you to send EDID file (.bin file). Operations will be canceled after 10 seconds. Please cut off all connections of HDBaseT ports. | Please send the EDID file |
| EDID/[x]/[y]. | Set the EDID data of input port [x] to built-in EDID No.[y]. [y]=1~5, correspond to the 5 embedded EDID data separately | EDID/[x]/[y] |
| UpgradeIntEDID[x]. | Upgrade one of the 5 embedded EDID data, x is the serial number for EDID data: 1. 1080P 2D 2CH 2. 1080P 3D 2CH 3. 1080P 2D Multichannel 4. 1080P 3D Multichannel 5. 3840x2160 2D (30Hz) When the switcher gets the command, it will show a message to send EDID file (.bin file). Operations will be invalid after 10 seconds. | Please send the EDID file |
| GetIntEDID[x]. | Return the embedded EDID data ranked x, [x]=1~5 | |
| GetInPortEDID[X] | Return the EDID data of input [x], [x]=1~4 | |
| %0801. | Auto HDCP management, activate carrier native mode | %0801 |
| %0900. | Switch to carrier native mode. | Carrier native |

RS232 Commands

| Command | Function | Feedback Example |
|---------|--|------------------------------------|
| %0901. | Switch to force carrier mode. | Force carrier |
| %0911. | Reset to factory default. | Factory Default |
| %9951. | Check the command sent by port 1 when PWON. | Port 1:data when PWON |
| %9952. | Check the command sent by port 2 when PWON. | Port 2:data when PWON |
| %9953. | Check the command sent by port 3 when PWON. | Port 3:data when PWON |
| %9954. | Check the command sent by port 4 when PWON. | Port 4:data when PWON |
| %9955. | Check the command sent by port 1 when PWOFF. | Port 1:data when PWOFF |
| %9956. | Check the command sent by port 2 when PWOFF. | Port 2:data when PWOFF |
| %9957. | Check the command sent by port 3 when PWOFF. | Port 3:data when PWOFF |
| %9958. | Check the command sent by port 4 when PWOFF. | Port 4:data when PWOFF |
| %9961. | Check the system locking status. | System Locked/ Unlock! |
| %9962. | Check the power status | STANDBY/PWOFF/ PWON |
| %9963. | Check the working mode of infrared carrier. | Carrier native/ Force carrier |
| %9964. | Check the IP address. | IP:192.168.0.178 (default) |
| %9971. | Check the connection status of the inputs. | In 01 02 03 04 Connect Y Y Y Y |
| %9972. | Check the connection status of the outputs. | Out 01 02 03 04 Connect Y Y Y Y |
| %9973. | Check the HDCP status of the inputs. | In 1 2 3 4 HDCP N N N N |
| %9974. | Check the HDCP status of the outputs. | Out 1 2 3 4 HDCP N N N N |
| %9975. | Check the I/O connection status. | Out 01 02 03 04 In 04 04 04 04 |
| %9976. | Check the output resolution. | Out 1 1920x1080 Out 2 1920x1080 |

RS232 Commands

| Command | Function | Feedback Example |
|--------------|---|---|
| | | Out 3 1920x1080 Out 4 1920x1080 |
| %9977. | Check the status of digital audio of output channels. | Out 1 2 3 4 Audio Y Y Y Y |
| %9978. | Check the HDCP compliant status of the inputs. | In 01 02 03 04 HDCPEN Y Y Y Y |
| I-Lock[X]. | Lock the channel [x], X=1~4 | Channel[x] Lock! |
| I-UnLock[X]. | Unlock the channel [x], X=1~4 | Channel[x] Unlock! |
| A-Lock. | Lock all channels | All Channel Lock! |
| A-UnLock. | Unlock all channels | All Channel Unlock! |
| Lock-Sta. | Check the lock status of all channels. | Channel 1->1 Lock! Channel 1->2 Lock! Channel 2->1 Unlock! |

TCP/IP Control

The Matrix Switcher can be controlled by PC with or without a LAN connection. Both PC and Matrix Switcher need to be in the same network segment.

Direct Control by PC

1. Connect your PC's Ethernet port to the TCP/IP port of the Matrix Switcher using a network cable.
2. Set the PC's network segment to the same setting as the Matrix Switcher.

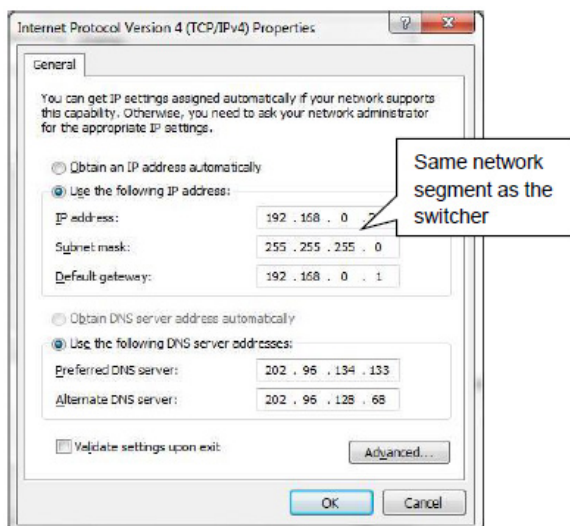


Figure 11: Network Settings

PC Control via Router

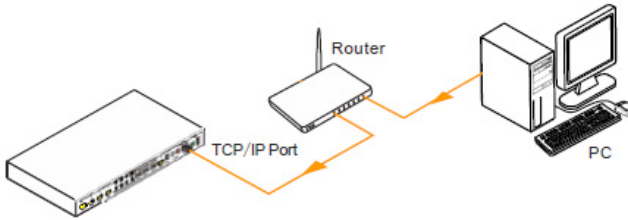


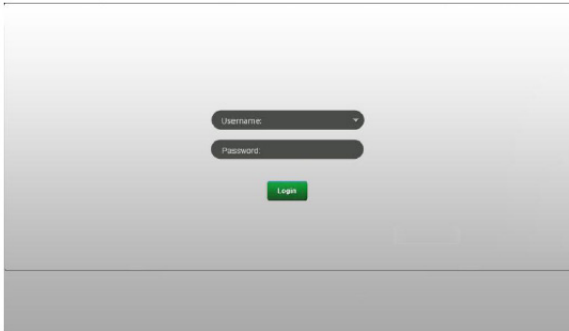
Figure 12: Router Connection

Hardware Installation

1. Connect the TCP/IP port of the Matrix Switcher to the Ethernet port of the PC with a network cable.
2. Set the PC's network segment to the same as the Matrix Switcher. Please write down the PC's original network setting because you will be using them again later.
3. Set the Matrix Switcher to the same network segment as the Router.
4. Set the PC's network settings to the original settings.
5. Connect the Matrix Switcher and PC to the router.
6. You are now able to control the Matrix Switcher via GUI over the router.

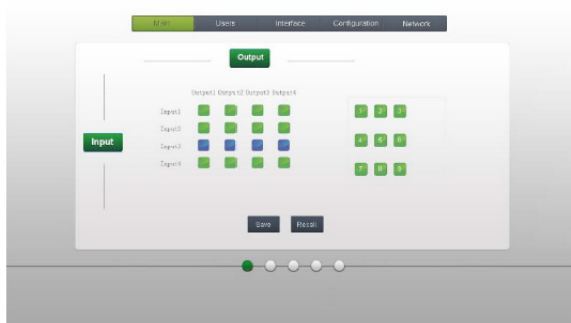
GUIControl

The Matrix Switcher comes with built-in GUI for convenient TCP/IP control. Open the GUI by typing 192.168.0.178 in your browser and the login interface, as shown below, will open.



There are 2 selectable usernames – admin (default password: admin) and user (default password: user). Log in as admin can access more configuration interfaces than user. Enter username and the right password. Here is a brief introduction to the interfaces.

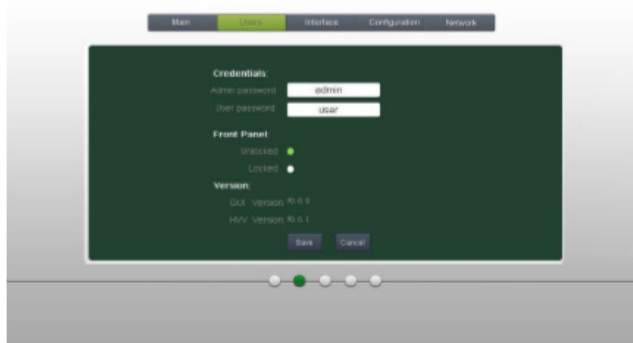
Main: Interface shown after logging in, provide intuitive I/O connection switching. See the screenshot below:



The button matrix displays every possible connection between every input and output, users can carry on the connections by clicking corresponding button.

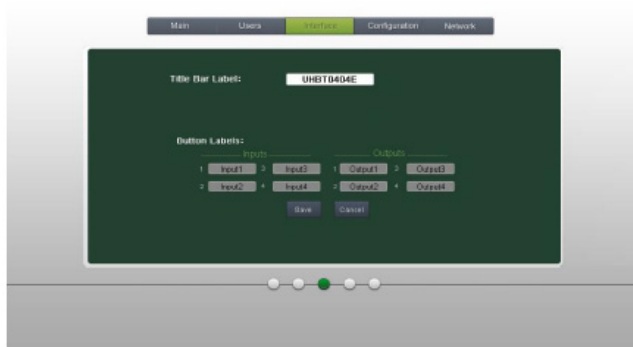
Buttons 1~9 at the right-bottom corner provides quick saving and recall for overall connection status.

Users: Display or modify credential settings, front panel lock, and GUI version.

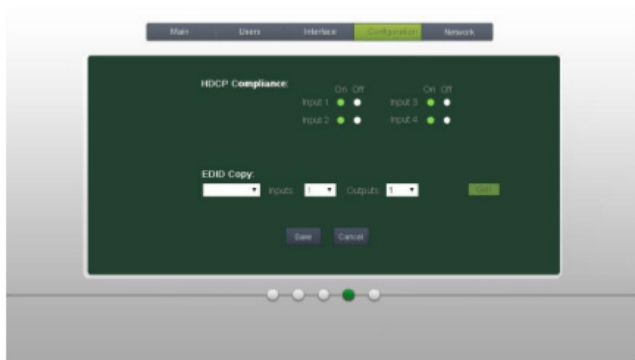


If there is any modification, press Save to restore the settings, or press Cancel to withdraw.

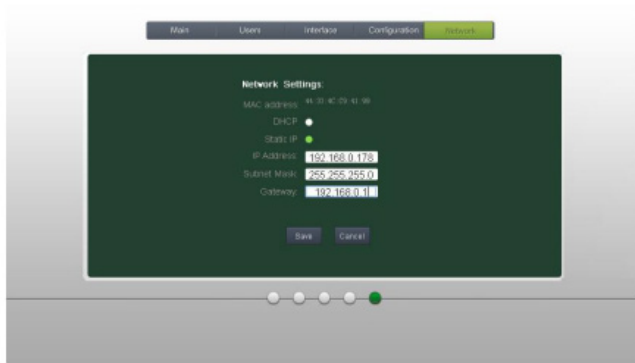
Interface: Set title bar label and button labels, press Save to save the settings



Configuration: Set HDCP Compliance status for every input, and manage EDID. See the screenshot below:



Network: Inquire and configure network settings including MAC address, IP address, subnet mask, and Gateway



Note: Log in as user access main interface only.

EDID Management

The Matrix Switcher features EDID management to maintain compatibility between all devices. EDID can be controlled via EDID learning and setting embedded EDID.

EDID Learning

The included IR remote can be used to enable EDID learning.

One input port learns the EDID of one output port:

Example: Input 2 learns the EDID from output 4

- Press: EDID + INPUTS2 + OUTPUTS 4 + Enter

All input ports learn EDID from one output port:

Example: all input ports learn EDID from output 4

- Press: EDID + ALL + OUTPUTS 4 + ENTER

Embedded EDID

There are 5 embedded EDID. Use the RS232 Control Software to set the EDID information. The table below show the embedded EDID information.

| No. | EDID Data |
|-----|-----------------------|
| 1 | 1080P 2D 2CH |
| 2 | 1080P 3D 2CH |
| 3 | 1080P 2D Multichannel |
| 4 | 1080P 3D Multichannel |
| 5 | 3840x2160 2D (30Hz) |

Send the command "UpgradeIntEDID[x]" using RS232 Control Software to set the embedded EDID data.

Note: x=1~5

FAQ & Troubleshooting

| Problems | Potential Causes | Solutions |
|---|--|--|
| Color loss or no video signal output | The connecting cables may not be connected correctly or it may be broken. | Check whether the cables are connected correctly and in working condition. |
| | Fail or loose connection | Make sure the connection is good |
| No output image when switching | No signal at the input / output end | Check with oscilloscope or multimeter if there is any signal at the input/ output end. |
| | Fail or loose connection | Make sure the connection is good |
| | Input source is with HDCP while the HDCP compliance is switched off. | Send command /%[Y]/[X]:1. or change HDCP compliance status in GUI. |
| | The display doesn't support the input resolution. | Switch for another input source or enable the display to learn the EDID data of the input. |
| Cannot control the device via front panel buttons | Front panel buttons are locked. | Send command /%Unlock; or select unlock in GUI interface to unlock |
| Cannot control the device via IR remote | The battery has run off. | Change for new battery. |
| | The IR remote is broken. | Send it to authorized dealer for repairing. |
| | Beyond the effective range of the IR signal or not pointing at the IR receiver | Adjust the distance and angle and point right at the IR receiver. |
| | The IR receiver connected to IR IN port is not with carrier | Change for an IR receiver with carrier. |
| Power Indicator remains off when powered on | Fail or loose power connection | Check whether the cables are connected correctly |

FAQ & Troubleshooting

| | | |
|--|--|--|
| EDID management does not work normally | The HDMI cable is broken at the output end. | Change for another HDMI cable which is in good working condition. |
| There is a blank screen on the display when switching | The display does not support the resolution of the video source. | Switch again. |
| | | Manage the EDID data manually to make the resolution of the video source automatically compliant with the output resolution. |
| Cannot control the device by control device (e.g. a PC) through RS232 port | Wrong connection | Check to ensure the connection between the control device and the unit |
| | Wrong RS232 communication parameters | Type in correct RS232 communication parameters: Baud rate:9600; Data bit: 8; Stop bit: 1; Parity bit: none |
| | Broken RS232 port | Send it to authorized dealer for checking. |
| Static becomes stronger when connecting the video connectors | Bad grounding | Check the grounding and make sure it is connected well. |
| Cannot control the device by RS232 / IR remote / front panel buttons | The device has already been broken. | Send it to authorized dealer for repairing. |

Specifications

Matrix Switcher

| | |
|-----------------------|---|
| Video Input | |
| Input | 4 HDMI |
| Input Connector | Female HDMI |
| Input Level | T.M.D.S. 2.9V~3.3V |
| Input Impedance | 100Ω (Differential) |
| HDMI Standard | Support HDMI1.4 & HDCP2.2 and is backward compatible with all previous standards. |
| Video Output | |
| Output | 1 HDMI – 3 HDBaseT |
| Output Connector | Female HDMI Female RJ45(with LED indicators) |
| Output Level | T.M.D.S. 2.9V~3.3V |
| Output Impedance | 100Ω (Differential) |
| HDMI Standard | Support HDMI1.4 & HDCP1.4 and is backward compatible with all previous standards. |
| Video general | |
| Video Signal | HDMI (or DVI-D) |
| Transmission Distance | 1080P@60Hz ≤70m 4Kx2K@60Hz ≤40m |
| Resolution Range | Up to 4Kx2K@60Hz |
| EDID Management | In-built EDID data and manual EDID management |
| Gain | 0 dB |
| Bandwidth | 10.2Gbit/s |
| Switching Speed | 200ns (Max.) |
| Audio general | |
| Output Signal | Stereo audio Digital audio |
| Analog Audio Output | Support PCM |
| Digital Audio Output | Supports PCM, Dolby, DTS, DTS-HD |
| Frequency Response | 20Hz~20KHz |
| Output Connector | 1 L&R(RCA) 1 SPDIF |
| General | |
| Power Supply | Input: 100-240V~, 50/60Hz Output: DC 24V 2.71A |
| Power Consumption | 35W (Max) |
| Temperature | 0~ +50℃ |
| Reference Humidity | 10% ~ 90% |
| Dimension (W*H*D) | 360mm x 28mm x 150 mm |
| Net weight | 910g |

HDBaseT Receiver

| Input & Output | |
|---------------------------|--|
| Input | 1 HDBaseT |
| Input Connector | Female RJ45(with LED indicators); |
| Output | 1 HDMI |
| Output Connector | Female HDMI |
| Control | 1 IR IN 1 IR OUT |
| Control Connector | 3.5mm mini jacks |
| General | |
| Resolution Range | Up to 4Kx2K@60Hz |
| Transmission Mode | HDBaseT |
| Transmission Distance | 1080P@60Hz ≤70m 4Kx2K@60Hz ≤40m |
| Bandwidth | 10.2Gbps |
| HDMI Standard | Support HDMI1.4 and HDCP1.4 |
| Temperature | 0~ +50℃ |
| Humidity | 10% ~ 90% |
| Power Supply | Powered by 4K HDBaseT Matrix Switcher. |
| Dimension (W*H*D) | 61mm x 24mm x 120mm |
| Net Weight | 280g |

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