

HDMI 2.0 4x4 Matrix

USER MANUAL OHM – 44UHD



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1. Introduction

Welcome!

Congratulations on your purchase of HDMI 2.0 4x4 Matrix, OHM-44UHD. This manual contains information that will assist you in installing and operating the product.

Opticis HDMI 2.0 4x4 Matrix, OHM-44UHD, provides a high level of audio and video performance with support for resolutions up to 4K@60Hz (RGB & YCbCr : 4:4:4). It also supports HDR (High Dynamic Range) to deliver more realistic and objective video signal as well as pass-through support of digital audio formats to bring lossless sound. The four (4) HDMI inputs and four (4) HDMI outputs support full matrix switching function with various control methods such as front panel buttons, RS-232, telnet, Web GUI and IR remote. User-friendly WebGUI interface supports storing and recalling up to four routing presets, making remote control and configuration of the unit conveniently. Built in EDID management support allows the users to choose and select from multiple built-in EDIDs as well as to upload custom EDID files and download the EDID from connected displays.

1.1 Applications

- Medical Imaging System
- Video Wall System
- Control Room and Conference Room
- Military, Aerospace, and education
- Digital Signage

1.2 Key Features

- Supports HDMI 2.0 Standards
- Supports HDMI 2.0 resolution up to 4096x2160@60Hz (RGB & YCbCr : 4:4:4)
- Provides user-friendly EDID management tools with 4 slots for user-created EDIDs, and EDID bypass support
- Supports storing and recalling of up to four routing presets
- Controllable via front-panel buttons, RS-232, telnet, WebGUI, and IR remote
- HDCP 1.4 and 2.2 compliant
- Supports HDR at 10 bit or 12 bit speeds respectively within its maximum bandwidth, 18Gbps
- Supports 3D content transmission
- Supports pass-through of LPCM 7.1, bit and HD bit audio formats over HDMI
- Certifies for FCC and CE standards

1.3 System Requirements

- You must have a HDMI source and a display. In order to be connected, it should support maximum graphic resolution feature of displays.
- No need for special requirements of memory size, CPU speed, or chipsets, if you have already properly installed your HDMI systems or graphic cards
- Initial trail of entire system with Opticis HDMI 2.0 optical extenders or certified HDMI copper cables for long distance transmission are recommended prior to installation of the system.

1.4 Shipping Group

- OHM-44UDS Matrix: 1 EA
- IR Extender: 1 EA
- OTG USB converter: 1 EA
- 24V/2.7A DC Power Adaptor: 1 EA
- IR Remote Control with Battery: 1 EA
- Power Cord: 1 EA
- User Manual: 1 EA

2. Operation Controls and Functions

2.1 Front Panel



- **IR Window:** Receives IR signals from the included IR remote for control of OHM-44UHD unit.
- Power Button & LED: Press power button to turn OHM-44UHD on (green LED) or place it into stand-by mode (red LED).
- 3 LOCK& LED: Press to lock all button functions on the front panel. Press and hold for 3 seconds to release the lock function. The LED will be flashing when the front panel is in locked
- **A~D:** Press and hold these buttons to switch available inputs for the associated output.
- 5 LED1~4: These LEDs will be illuminated to indicate which sources are currently selected for each output. No flashing LED for an output indicates that the output is muted.

2.2 Real Panel



DC 24V: Plug the 24V DC power adapter into the unit and connect it to an AC wall outlet for power.

2.3 . Remote Control

- **POWER:** Press this button to power the unit on or place it into stand-by mode.
- OUTPUT A: Press the number of the input (1~4) to display on Output A.
- 3 **OUTPUT B:** Press the number of the input (1~4) to display on Output B.
- OUTPUT C: Press the number of the input (1~4) to display on Output C.
- 5 OUTPUT D: Press the number of the input (1~4) to display on Output D.



2.4 IR Pin Definitions



2.5 RS-232 Protocols

| MATRIX | | | | |
|--------|------------|--|--|--|
| Pin | Definition | | | |
| 1 | NC | | | |
| 2 | Tx | | | |
| 3 | Rx | | | |
| 4 | NC | | | |
| 5 | GND | | | |
| 6 | NC | | | |
| 7 | NC | | | |
| 8 | Nc | | | |
| 9 | NC | | | |

| REMOTE CONTROLLER | | | |
|-------------------|------------|--|--|
| Pin | Definition | | |
| 1 | NC | | |
| 2 | Rx | | |
| 3 | Тх | | |
| 4 | NC | | |
| 5 | GND | | |
| 6 | NC | | |
| 7 | NC | | |
| 8 | Nc | | |
| 9 | NC | | |

Baud Rate: 115200bps Data bit: 8 bits Parity: None Flow Control: None Stop Bit: 1

2.6 Telnet and RS-232 Commands

| COMMAND | DESCRIPTION | DESCRIPTION OF PARAMETER |
|-------------------------------|---|-----------------------------|
| AN | Switch Output A to Input N | N= 1~4 |
| BN | Switch Output B to Input N | N= 1~4 |
| CN | Switch Output C to Input N | N= 1~4 |
| DN | Switch Output D to Input N | N= 1~4 |
| IN | Switch All Output to Input N | N= 1~4 |
| AB N | Switch output ABto input N | N= 1~4 |
| SETIP x.x.x.x x.x.x.x x.x.x.x | Setting IP, Subnet, Gate- way(Static IP) | X=0~255 |
| IPCONFIG | Display The Current IP Configuration | NONE |
| RSTIP | Set IP Configuration to DHCP | NONE |
| PO | Power Off | NONE |
| P1 | Power On | NONE |

| STORE N | Store Current I/ O to Position N | N= 1~4 |
|------------------------------|---|--|
| SHOW N | Show Current Port N I/O Position | N= 1~4 |
| COMMAND | DESCRIPTION | DESCRIPTION OF PARAMETER |
| PRESET N | Preset the store I/O Position N | N= 1~4 |
| Name N N1 | Name port N as N1 | N= 1~4 |
| N1=ABCDEFGH(Max Length=8) | | |
| ST | Show Unit Firmware Version | NONE |
| EM N N1 | Setting port N EDID Mode to N1 | N= 1~4 N1= 1-FHD2CH, 2-FHDMCH, 3-4KUHD2CH, 4-4KUHDMCH, 5-4KUHD+2CH, 6-4KUHD+MCH, 7-TXA, 8-TXB, 9-TXC, 10-TXD, 11-USER1, 12-USER2, 13-USER3, 14-USER4 |
| EM? N | Show port N current EDID mode. | N= 1~4 |
| RS | Routing Reset to Default | NONE |
| USBISP | Update FW by USB | NONE |
| HELP | Display all available com- mands and its description | NONE |
| ? | Display all available com- mands | NONE |
| QUIT | Quit Telnet | NONE |

Note: Commands will not be executed unless followed by a carriage return. Commands are not case-sensitive.

2.7 Telnet Control

The PC/Laptop needs to be connected to the same active networks with OHM-44UHD to use Telnet Control.

• To access Telnet in Windows 7 or 10, click on the "Start" menu and type "cmd" in the search field, then press "Enter".

• Under Mac OS X, go to Go→Applications→Utilities→Terminal

See below for reference.



Once in the CLI (Command Line Interface) type "telnet" followed by the IP address of the unit (and the port number if it is non-standard) and then press "Enter"

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>telnet 192.168.5.80 23
```

This will connect us to the unit we wish to control. Type "help" to check the list of available commands.

| HELP | |
|--------------|--|
| ? : SHOW | DESCRIPT OF COMMAND |
| HELP : SHO | DW DESCRIPT OF COMMAND |
| SETIP : SET | `ETHERNET IP ADDRESS P1 P2 P3 P1=IPADDRESS, P2=NETMASK, P3=GATEWAY(P1~P3)=X.X.X.X (X=0~255) |
| IPCONFIG | : DISPLAY THE CURRENT IPCONFIG |
| RSTIP | : IP CONFIGURATION RESET TO <dhcp></dhcp> |
| REBOOT | : System Reset |
| PØ | : POWER OFF |
| P1 | : POWER ON |
| STORE | : STORE current I/O position (1~4) |
| SHOW | : SHOW current port's I/O position (1~4) |
| PRESET | : PRESET the store I/O position (1~4) |
| NAME | : NAME P1 P2 the stored port P1(1~4) no more than 8 charactors P2 ,Sst PRESET NAME |
| I1~I4 | : SET ALL OUTPUTS SOURCE |
| ST | : SHOW UNIT FIRMWARE VERSION |
| RS | : System Reset to A1,B2,C3,D4 |
| EM | : Setting EDID MODE. EM P1 P2. P1=(1~4 PORT) P2=(1-FHD2CH,2-FHDMCH,3-4KUHD2CH,4-4KUHDMCH,5-4KUHD+2CH,6-4KUHD+MCH,7-TXA,8-TXB,9-TXC,10- |
| TXD,11-USER1 | ,12-USER2,13-USER3,14-USER4) |
| EM? | : Show current EDID mode. EM? P1. P1=(1~4 PORT) |
| USBISP | : Update FW by USB |
| A1~A4 | : SET OUTPUT A SOURCE(1-4) |
| B1~B4 | : SET OUTPUT B SOURCE(1-4) |
| C1~C4 | : SET OUTPUT C SOURCE(1-4) |
| D1~D4 | : SET OUTPUT D SOURCE(1-4) |
| FADEFAULT | : ALL CONFIGURE SET TO FACTORY DEFAULT |
| AB1~AB4 | : Switch output ABCD to 1~4 at the same time |
| QUIT | : Telnet QUIT |
| | |

2.8 WebGUI Control

All primary functions of OHM-44UHD are controllable via the built in WebGUI. This control is presented across 3 separate tabs, including Switch, EDID Settings, and System Settings. The individual functions will be introduced in the following sections.

To obtain device current IP address, you can either use RS232 or by installing Device Discovery Tool. Use current IP to login WebGUI to functions control

Install the Device Discovery Tool

Please obtain the Device Discovery software from your authorized dealer and save it in a directory where you can easily find it.

Note: The unit's default IP address is 192.168.1.50

| | | Fir | nd Devices on | Network | |
|--------------|---------------|------------|---------------|---------|------|
| Product Name | Description 1 | (P Address | MAC Address | | |
| | | | | | |

Connect OHM-44UHD and your PC/Laptop to the same active network and execute the Device Discovery software. Click on "Find Devices on Network" and a list of devices connected to the local network will show up indicating their current IP address.

| Deaduct TD | |
|-----------------|-------------------|
| Product ID | |
| Product Name | |
| MAC Address | 00:00:00:00:00:00 |
| IP Address | 1 |
| Subnet Mask | |
| Gateway IP | |
| DNS | |
| IP Mode | Static 💌 |
| Web GUI Port | 0 |
| Telnet Port | 0 |
| s / N | |
| Firmware Versio | n |
| Hardware Versio | on |
| Description | |
| Web GUI | Web GUI |
| Save | Reboot |

By clicking on one of the listed devices you will be presented with the network details of that particular device. If you choose, you can alter the static IP network settings for the device, or switch the OHM-44UHD into DHCP mode to automatically obtain proper network settings from a local DHCP server. To switch to DHCP mode, please select DHCP from the IP mode drop-down, then click "Save" followed by "Reboot".

Once you are satisfied with the network settings, you may use them to connect via Telnet or WebGUI. The network information window provides a convenient link to launch the WebGUI directly.

• Log in to the WebGUI

To access the WebGUI, open a web browser on a PC/Laptop that is connected to an active network and type the IP address of OHM-44UHD into the web address entry bar. Log into the item by entering the appropriate user name and password.

Note: The default user name and password are "admin"

| Username | | | |
|----------|--------|--|--|
| Password | | | |
| | Submit | | |

Switch Tab

| Output | Input |
|----------------------|-----------|
| A OUTPUT A / INPUT 2 | 1 INPUT 1 |
| Signal | Signal |
| B OUTPUT B / INPUT 3 | 2 INPUT 2 |
| Signal | Signal |
| C OUTPUT C / INPUT 4 | 3 INPUT 3 |
| Signal | Signal |
| D OUTPUT D / INPUT 4 | 4 INPUT 4 |
| Signal | Signal |

The Switch tab provides video routing settings, preset saving/loading, and I/O renaming options.

Routing Controls:

To begin assigning a new video route, please click the button of the HDMI output you wish to send video to (e.g. "OUTPUT A") and then click on the button of the preferred HDMI input port (e.g. "INPUT 3"). As you select each button they will change their color to orange. The new route will become active immediately and the routing information displayed on the buttons will change accordingly.

If you need to route an input to multiple outputs, please select all of the appropriate output buttons before selecting the input port.



Renaming I/O:

All inputs and outputs can be renamed as required. To rename the HDMI input and output ports please click the "edit" icon (\mathbb{E}). Click the "Save" icon to confirm the change. Note: Blank spaces ("") are not allowed in names.

| utput | | Input |
|--|-------------------|--|
| OUTPUT 1 / INPUT 2 | K | No Signal |
| OUTPUT 2 / INPUT 3 No Signal | Output A OUTPUT 1 | 2 INPUT 2 No Signal |
| OUTPUT 3 / INPUT 4 | | 3 INPUT 3 No Signal |
| OUTPUT 4 / INPUT 1 No Signal | | 4 INPUT 4 720x576i 50Hz |
| Switch | | |
| Switch | | Input |
| Switch Output A OUTPUT 1 / INPUT 2 No Signal | 3 | Input |
| Output A No Signal B OUTPUT 2 / INPUT 3 No Signal C No Signal | Input 1 -INPUT 1 | Input INPUT 1 No Signal 2 INPUT 2 No Signal |
| Switch Output A OUTPUT 1 / INPUT 2 No Signal C OUTPUT 3 / INPUT 4 No Signal | Input 1 JNPUT 1 | Input Invo Signal INPUT 2 No Signal INPUT 3 No Signal |

Presets:

OHM-44UHD can store up to 4 routing presets. Presets can be utilized to store multiple different routing states in advance for rapid, hassle-free, recall.

Preset Set: Once you have the matrix set the way you like, you can click the "store" icon (I) in the upper right corner of the window. You may also name the preset at this stage by selecting the "edit" icon (I). Click the preset's button when you are ready to commit the preset to memory.

| A CUTTRIT & / IN | 1 PRESET 1 | 3 PRESET 3 | 1 | | Ø |
|------------------------------|------------|------------|---|---------------------------|---|
| | 2 PRESET 2 | | 2 | | ē |
| | PUT 4 | Cancel | | | E |
| D OUTPUT 4 / In No Signal | pat 5. | | 4 | (NPL/T-4 720x5761 50Hz | E |

Preset Recall: When you wish to load a previously stored setting, please click the "recall" icon (I) and you will be presented with a choice of the available 4 presets. The preset will load immediately upon pressing the preset's button.



• EDID Settings Tab

OHM-44UHD provides the option of six built in EDIDs, four sink sourced EDIDs and four user uploaded EDIDs that can be assigned to each input port individually. The names of the four user uploaded EDIDs can changed if desired.

| Set EDID Mode to 1-FHD 2CH | • | Set EDID Mode to 1-FHD 2CH • | Set EDID Mode to | Set EDID Mode to |
|--|-----------------|--|--|--|
| Edid Upload/Downl EDID USER 1 Choose File No file chose Update Download Sink EDID Download | ioad an L | EDID USER 2 Choose File No file chosen Update Download | EDID USER 3 Choose File No file chosen Update Download | EDID USER 4 Choose File No file chosen Update Download E |

EDID Selection:

The EDID Settings section allows for the assignment of an EDID to each individual input port. Select the preferred EDID from each dropdown menu. The EDID will be changed immediately. **Note:** In some rare cases it is possible for custom or external EDIDs to cause compatibility issues with certain sources. If this happens, it is recommended to switch to one of the 6 built in EDIDs for maximum compatibility.

| Input 1 | Input 2 | Input 3 | Input 4 |
|--|-------------|---|-------------|
| 1-PHD 2CH • | 1-PHD 2OH • | 1-FHD 2CH • | 1-PHD 2CH |
| 53M0+20H 53M0+20H 54M0+20H 57XA 57XB 97XC 10-7XD 11-V35R1 12-V35R2 13-V35R3 14-V35R3 14-V35R4 | EDID USER 2 | EDID USER 3 Crosse (r.c.) No the chosen Update Download | EDID USER 4 |

EDID Renaming:

All User EDIDs can be renamed as required. To rename an individual User EDID please click the "edit" icon (.). Click the "Save" icon to confirm the change. **Note:** Blank spaces ("") are not allowed in names.



EDID Upload:

To upload a custom EDID, please click the "Choose File" button below the User EDID that you would like to change. A file selection window will appear, allowing you to locate and upload your preferred EDID file from your local PC. The EDID should be in the *.bin file format. Once the preferred file has been selected, please click the "Update" button, and the file will be transferred to the matrix.

| nput 1 | Input 2 | Input 3 | Input 4 |
|---|---|--|--|
| let EDID Mode to | Set EDID Mode to | Set EDID Mode to | Set EDID Mode to |
| 1-PHD 2CH | 1-PHD 2CH | 1.FHD 2CH | 1-PHD 2CH |
| Edid Upload/Download EDID USER 1 Proteine (Rotherwite) Update (Download) | EDID USER 2 Crystal IIa No ha chose Update Download | EDID USER 3 Chota 16 Volta chota Update Download 🗹 | EDID USER 4 Drosk (Ja. No fa Cross) Opder: Downad 2 |

EDID Download:

To save an existing User EDID to your local PC please press the "Down- load" button next to the User EDID that you would like to save. The EDID will then be saved to your local PC as a *.bin file. To save a copy of the EDID from a connected sink, selected the preferred sink from the Sink EDID Download dropdown menu and then press the "Down- load" button next to the selection. The EDID will then be saved to your local PC as a *.bin file.

System Settings

This page provides system configuration options including turning the power on/off, changing the login password, changing the network settings, resetting the system to factory defaults, and updating the firmware.

| stem Settings | | | | |
|-------------------|-------------------|-------|--|--|
| Power ON |] | | | |
| Web User Settin | g | | | |
| Username | | | | |
| Old Password | | | | |
| New Password | | Save | | |
| Confirm Password | | | | |
| Web Login Time | out(Minute) 5 min | • | | |
| NetWork | | | | |
| IP Mode: | DHCP | | | |
| IP: | 192.168.5.58 | | | |
| Netmask: | 255.255.255.0 | 621/2 | | |
| Gateway: | 192.168.5.254 | Save | | |
| MAC Address: | f8-22-85-00-07-43 | | | |
| Report to Default | | | | |
| Reset to Delaut | | | | |
| Routing Reset | Factory Reset | | | |

Web User Settings:

To change the login password for OHM-44UHD, enter the username as "admin", type the current password in the "Old Password" field and then enter the preferred new password in the "New Password" and "Confirm Password" fields. Press "Save" to finalize the change.

Web Login Timeout:

This setting sets the length of idle time to wait before forcing a connected web user to be automatically logged out. Timeout values range from 5 to 60 minutes. To change this timeout value, select a new value from the dropdown and the change will be enforced immediately.

Network:

The IP mode (DHCP or Static IP), IP address, subnet mask, and gateway of OHM-44UHD can be set here. When OHM-44UHD is set to "DHCP" mode, it will automatically attempt to obtain proper configuration information from the local DHCP server. If no DHCP server is available, or the user wishes to configure the network settings manually, please set OHM-44UHD to "Static IP" mode and enter the information as appropriate for your local network. Press "Save" to activate the changes.

Reset to Default:

To reset all routing settings press the "Routing Reset" button. To reset the entire OHM-44UHD to the factory defaults please press the "Factory Reset" button.

| Power ON | | |
|------------------|--------------------|--|
| Web User Setti | ng | |
| Username | | |
| Old Password | | |
| New Password | Save | |
| Confirm Password | | |
| Web Login Time | eout(Minute) 5 min | |
| NetWork | | |
| IP Mode: | DHCP | |
| IP: | 192.168.5.58 | |
| Netmask: | 255.255.255.0 | |
| Gateway: | 192.168.5.254 Save | |
| MAC Address: | f8-22-85-00-07-43 | |
| Reset to Defaul | It | |
| (Destine Deset) | Factory Reset | |
| Routing Reset | | |
| Firmuroro Lingro | ada | |

Firmware Upgrade:

To update the firmware of OHM-44UHD, press the "Choose File" button to select a new firmware file that is stored on your local PC. After an appropriate file has been selected, press the "Upgrade" button to begin the firmware update process.

3. Connection Diagram



4. Specifications

4.1 Technical Specifications

| Video Bandwidth | 600MHz/18Gbps |
|-------------------------|---|
| Input Ports | 4 x HDMI 1 x IR 1 x RS-232 1 x Mini USB(Service) 1 x RJ45(Control) |
| Output Ports | 4 x HDMI |
| Supported Resolutions : | 480i~1080p@24/50/60Hz 4K up to 4096x2160@60Hz (RGB & YCbCr 4;4:4) VGA~WUXGA |
| IR Frequency | 30~50 kHz |
| Baud Rate | 115200 bps |
| Power Supply | 24VDC/2.7A (US/EU standards, CE/FCC/ UL certified) |
| ESD Protection | Human body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge) |
| Dimensions | 436 mm x 44 mm x 160mm (W×H×D) [Case Only] 436 mm x 48 mm x 167.5mm(W×H×D) [All Inclusive] |
| Weight | 2068g |
| Chassis Material | Metal |
| Color | Black |
| Operating Temperature | 0°C~40°C/32°F~104°F |
| Storage Temperature | −20°C~60°C/−4°F~140°F |
| Relative Humidity | 20~90% RH (non-condensing) |
| Power Consumption | 21 W |

4.2 Supported Resolutions (Hz)

| DVI and HDMI Supported Resolutions (Hz) | Input | Output |
|---|--------------|--------------|
| 640x480@60/72/75/85 | \checkmark | \checkmark |
| 720x400@85 | \checkmark | \checkmark |
| 800x600@56/60/72/75/85 | | \checkmark |
| 1024x768@60/70/75/85 | \checkmark | \checkmark |
| 1152x864@75 | \checkmark | \checkmark |
| 1280x720@60 | \checkmark | \checkmark |
| 1280x768@60/75/85 | \checkmark | \checkmark |
| 1280x800@60 | \checkmark | \checkmark |
| 1280x960@60 | \checkmark | \checkmark |
| 1280x1024@60 | \checkmark | \checkmark |
| 1360x768@60 | \checkmark | \checkmark |
| 1366x768@60 | \checkmark | \checkmark |
| 1400x1050@60 | \checkmark | \checkmark |
| 1440x900@60 | \checkmark | \checkmark |
| 1600x900@60 | \checkmark | \checkmark |
| 1600x1200@60 | \checkmark | \checkmark |
| 1680x1050@60 | \checkmark | \checkmark |
| 1920x1080@60 | \checkmark | \checkmark |
| 1920x1200@60 | | \checkmark |
| 1920x1440@60 | | \checkmark |
| 2560x1600@60 | \checkmark | \checkmark |
| 1440x576i@50 | \checkmark | \checkmark |
| 1440x480i@59.94/60 | \checkmark | \checkmark |
| 720x480p@59.94/60 | \checkmark | \checkmark |
| 720x576p@50 | | \checkmark |
| 1280x720p@50/59.94/60 | \checkmark | \checkmark |
| 1920x1080i@50/59.94/60 | \checkmark | \checkmark |
| 1920x1080p@23.97/24/25/29.97/30/50/59.94/60 | | \checkmark |
| 3840x2160@24/25/30/50/60 | \checkmark | \checkmark |
| 4096x2160@24/25/30/50/60 | \checkmark | \checkmark |

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| NO | Date | Content | Remark |
|-----|---------|-------------------------|--------|
| 1.0 | 2019.09 | First released | |
| 1.1 | 2020.10 | Company Address Changed | |
| 1.2 | 2021.09 | Minor Wording Changed | |



OPTICIS USA, LLC. 17752 Skypark Circle, #230. Irvine, CA 92614 T: 949.701.4742 F: 949.701.4965 E: info@opticisusa.com