

MODULAR MATRIX SWITCHER · 8×8 HDMI SEAMLESS MATRIX

BLU-HDM2-88VW

18Gbps 8×8 Seamless Matrix

Eight HDMI sources to eight HDTV displays at up to 4K@60Hz 4:4:4, with per-output resolution downscaling, video wall, multi-view, a built-in Web server, 8-channel balanced audio de-embed, and frame-accurate seamless switching. Controlled from the front panel, IR remote, RS-232 or Web GUI.



8 × 8

HDMI MATRIX

18Gbps

4K@60HZ 4:4:4

Seamless

ZERO-FRAME SWITCHING

Video Wall

+ MULTI-VIEW

Panel · IR · RS-232

· Web

4-WAY CONTROL

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01 Introduction

What the BLU-HDM2-88VW does.

The BLU-HDM2-88VW is an 18Gbps 8×8 seamless matrix — a perfect solution for video transmission from 8 HDMI sources to 8 HDTV displays. Video resolution is up to 4K@60Hz 4:4:4. Each output supports resolution downscaling individually. It features video wall, multi-view function and a built-in Web server. It also has 8 routes of L/R audio output channels to output balanced audio, and seamless switching ensures a smooth picture transition without frame loss.

This matrix can be controlled via front panel buttons, IR remote, RS-232 and Web GUI.

02 Features

- HDCP 2.2 compliant
- Supports video resolution up to 4K@60Hz 4:4:4 and 18Gbps video bandwidth, as specified in HDMI 2.0b
- Supports seamless switching
- Supports 12 display categories in multi-view mode
- Supports 8-route L/R balanced audio output
- Each output supports horizontal mirror and vertical mirror
- Blank screen, blue screen and output-off are optional when no signal is present
- HDMI audio formats: LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio
- Supports CEC control, and multiple video resolution output
- Supports power-off memory and advanced EDID management
- Controlled via front panel buttons, IR remote, RS-232, and Web GUI
- Compact design for easy and flexible installation, standard height of 1U

03 Package Contents

1	1 × 18Gbps 8×8 Seamless Matrix
2	1 × 24V/3.75A Locking Power Supply
3	1 × IR Remote
4	1 × IR Wideband Receiver Cable (1.5m)
5	1 × USB to RS-232 Serial Cable (USB A to RS-232 serial DB9 male connector)
6	8 × 5pin-3.5mm Phoenix Connector (male)
7	8 × Machine Screw
8	2 × Mounting Ear
9	1 × User Manual

04 Specifications

Technical, connection, mechanical and environmental figures.

TECHNICAL	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	594MHz / 18Gbps
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
Color Depth	8 / 10 / 12-bit
Audio Formats	HDMI IN/OUT: LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD Audio Extracted – Optical: LPCM 2.0CH / Dolby / DTS 5.1CH; Balanced Analog: LPCM 2CH
IR Level	5Vp-p
IR Frequency	Wideband 20K–60KHz
ESD Protection	IEC 61000-4-2: ±8kV (air-gap discharge) & ±4kV (contact discharge)

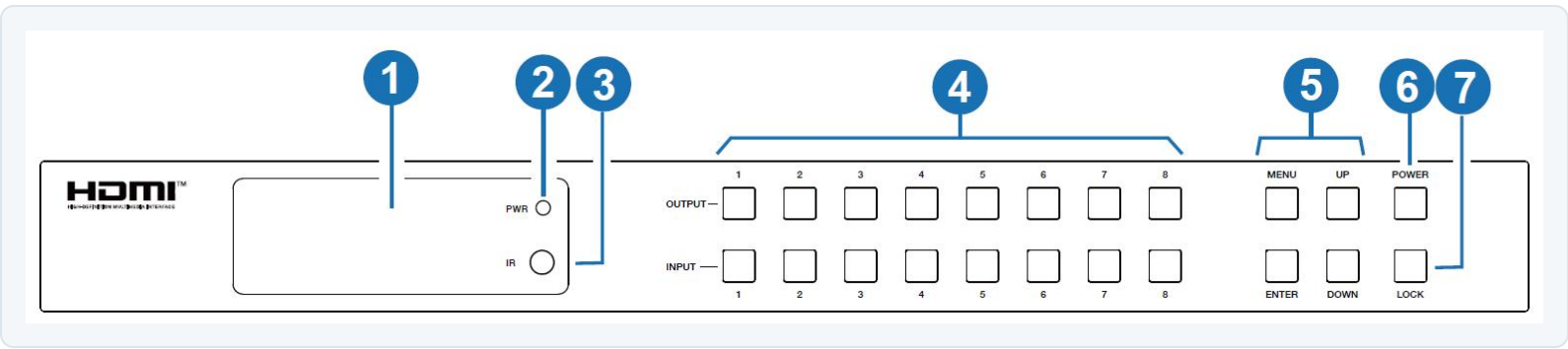
CONNECTION	
Input Ports	8 × INPUT [HDMI Type A, 19-pin female]
Output Ports	8 × OUTPUT [HDMI Type A, 19-pin female] 8 × OPTICAL AUDIO OUT [S/PDIF] 8 × L/R AUDIO OUT [3.5mm, 5-pin Phoenix Connector] 1 × TCP/IP [RJ45]
Control Ports	1 × RS-232 [D-Sub 9] 1 × IR EXT [3.5mm, Stereo Mini-jack]

MECHANICAL	
Housing	Metal enclosure
Color	Black
Dimensions	440mm [W] × 300mm [D] × 44.5mm [H]
Weight	3.95kg
Power Supply	Input: AC 100–240V 50/60Hz · Output: DC 24V/3.75A (US/EU standard, CE/FCC/UL certified)
Power Consumption	70W (Max)
Operating Temperature	32–104°F / 0–40°C
Storage Temperature	-4–140°F / -20–60°C
Relative Humidity	20–90% RH, non-condensing

RECOMMENDED HDMI CABLE LENGTH			
	4K60	4K30	1080P60
HDMI Cable Length (IN/OUT)	5m/16ft	10m/32ft	15m/50ft
The use of a “Premium High Speed HDMI” cable is highly recommended.			

05 Operation Controls & Functions

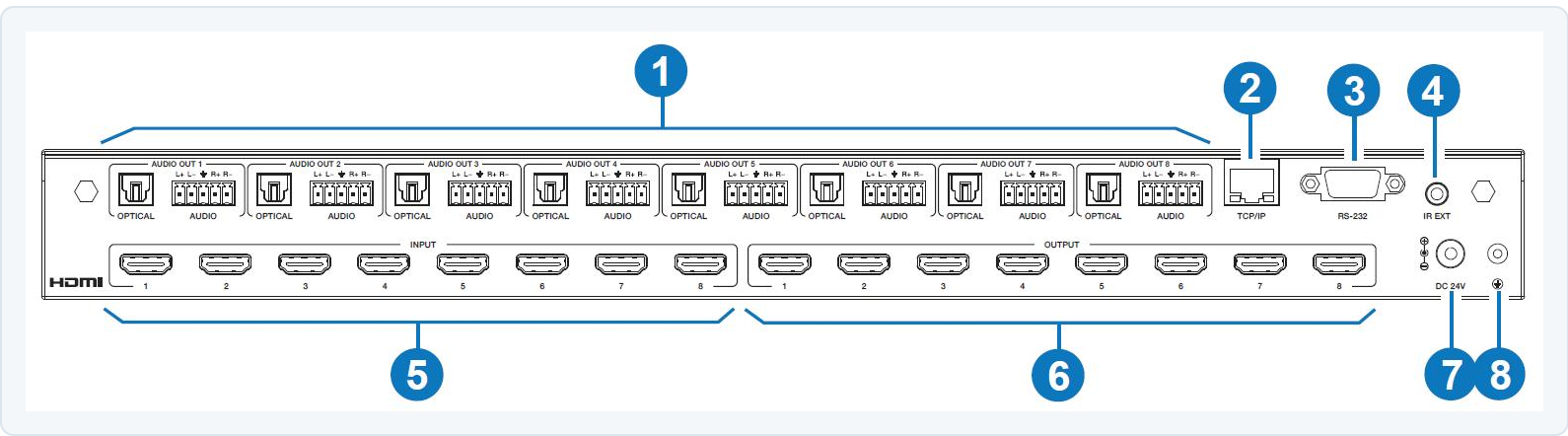
5.1 Front panel



1	LCD screen	Displays matrix switching status, input/output port, EDID, baud rate, IP address, etc.
2	PWR LED	On green when the device is working. On red when the device is on standby.
3	IR	IR signal receiver, receiving the signal from the IR remote.
4	INPUT / OUTPUT buttons	Press an output button (1–8) first, then press an input button (1–8) to select the corresponding input source for that output port.
5	MENU / ENTER / UP / DOWN	Navigate the LCD menu. See the RESET walkthrough and note below.
6	POWER button	Long-press 3 seconds to enter standby; short-press to wake the device.
7	LOCK button	Short-press to lock front-panel buttons (except power); press again to unlock.

RESET example, via the front panel: On the initial LCD screen, press **MENU** — there are OUTPUT / INPUT / EXTAUDIO / SETUP items. Press **UP/DOWN** to select “SETUP”, then **ENTER** to go to the next level — LCD ONTIME / BAUD RATE / IP INFO / REBOOT / RESET. Press **UP/DOWN** to select “RESET”, then **ENTER** to confirm, then **ENTER** again to execute — the screen will prompt “SUCCESS!”. Pressing **MENU** at any point returns to the previous menu; any level returns to the initial screen after 10 seconds of no input.

5.2 Rear panel

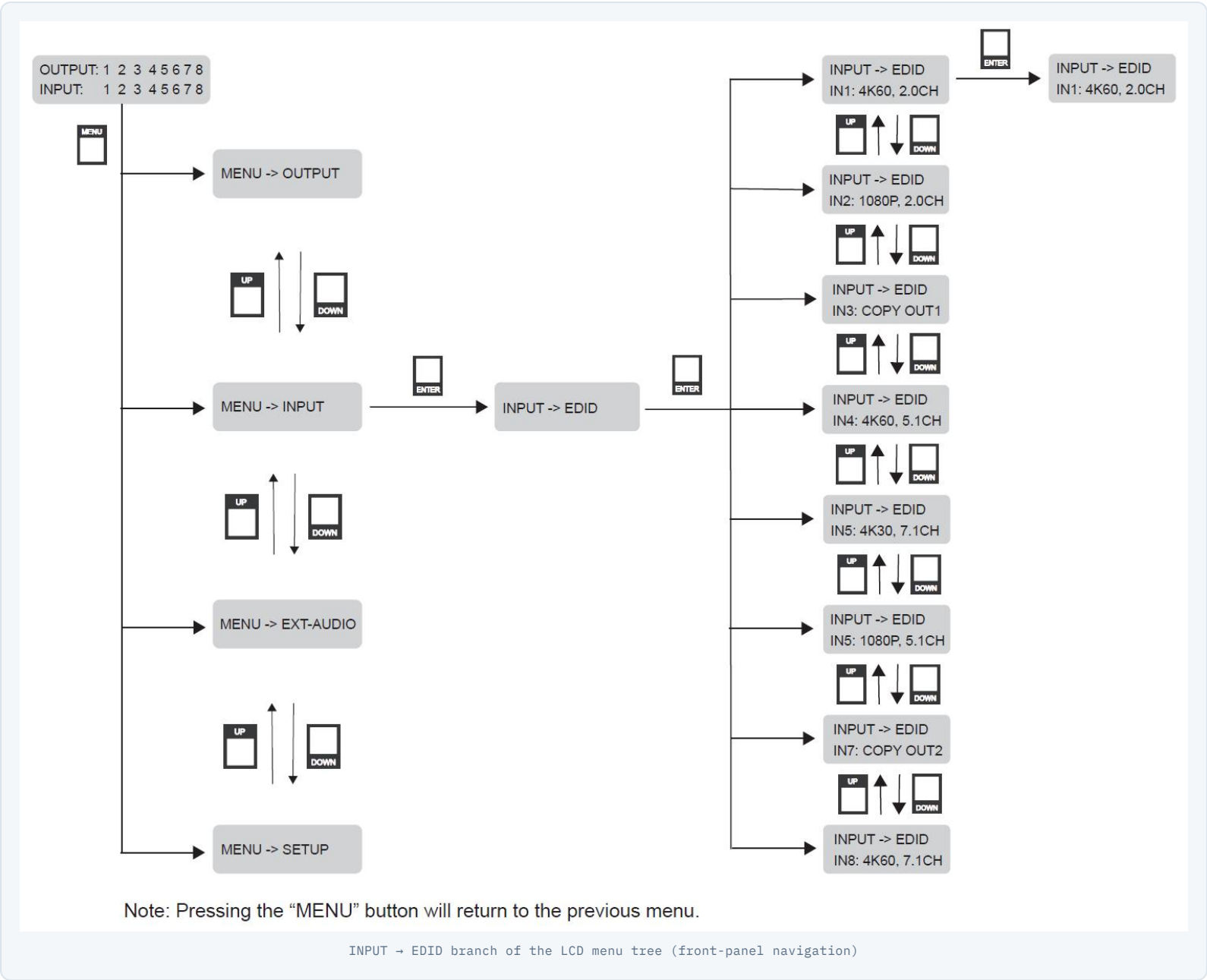


1	AUDIO OUT (1-8)	OPTICAL: optical audio output, connected to an audio device such as an amplifier. L/R AUDIO: analog audio output, supports balanced (up to 2Vrms) and unbalanced audio. Balanced: L+, L-, $\pm$, R+, R-. Unbalanced: L+, $\pm$, R+.
2	TCP/IP	TCP/IP control port, connected to a PC or router with a Cat cable.
3	RS-232 port	Connect to a PC or control system by D-Sub 9-pin cable to transmit RS-232 commands.
4	IR EXT	IR signal receiving port. If the unit's IR window is blocked or the unit is in a closed area, connect the IR receiver cable here.
5	HDMI INPUT ports (1-8)	Connected to HDMI source devices such as a Blu-ray player or PC.
6	HDMI OUTPUT ports (1-8)	Connected to HDMI display devices such as a TV, monitor or projector.
7	DC 24V	Connect to the 24V/3.75A power supply.
8	GND	Connect the housing to ground.

Notes: (1) You can restore factory settings via the front panel, Web GUI or RS-232 command. (2) Power-cut memory is available except when the unit is in standby or panel-locked. (3) RS-232 and Web control become available a few minutes after the device is powered on.

5.3 LCD Display Navigation

The buttons on the front panel are used for LCD display navigation, including INPUT (1–8), OUTPUT (1–8), MENU, ENTER, UP, DOWN. The full menu tree is shown below.



MENU ITEMS – FULL REFERENCE			
LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
OUTPUT	RESO	OUT1–OUT8	4K×2K60W / 50W / 30W / 25W / 24W, 4K×2K60 / 50 / 30 / 25 / 24, 1080P60 / 50 / 30 / 25 / 24, 1080i60 / 50, WUXGA60_RB, 1360×768@60, 1280×800@60, 720P60, 20P50, XGA60, AUTO
	CSC	OUT1–OUT8	RGB, YCbCr 444, YCbCr 422, YCbCr 420
	STREAM	OUT1–OUT8	ENABLE, DISABLE
	MIRROR	OUT1–OUT8	OFF, H MIRROR, V MIRROR, HV MIRROR
INPUT	EDID	IN1–IN8	4K60/30, 2.0/5.1/7.1CH; 1080P, 2.0/5.1/7.1CH; 1920×1200, 2.0CH; 1360×768, 2.0CH; 1024×768, 2.0CH; USER1; USER2; COPY OUT1–OUT8
	OUT	OUT1–OUT8	ENABLE, DISABLE
	MODE	—	BIND TO INPUT, BIND TO OUTPUT, AUDIO MATRIX

EXTAUDIO	MATRIX	OUT1-OUT8	INPUT1-INPUT8
SETUP	LCD ONTIME	—	OFF, ALWAYS ON, 15 SECONDS, 30 SECONDS, 60 SECONDS
	BAUD RATE	—	4800, 9600, 19200, 38400, 57600, 115200
	IP INFO	—	DHCP: ON / OFF
	REBOOT	—	—
	RESET	—	—

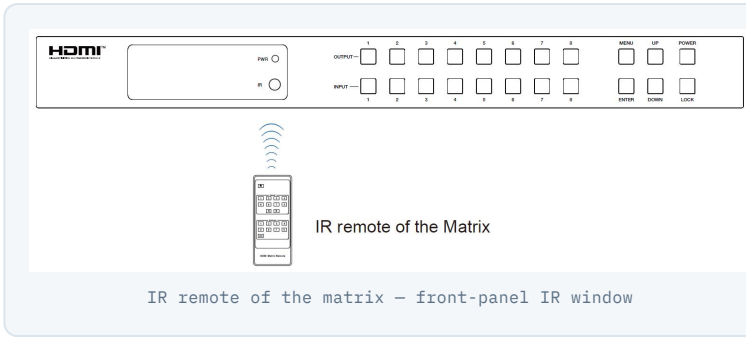
06 IR Remote

Controlling the matrix from the included IR remote.

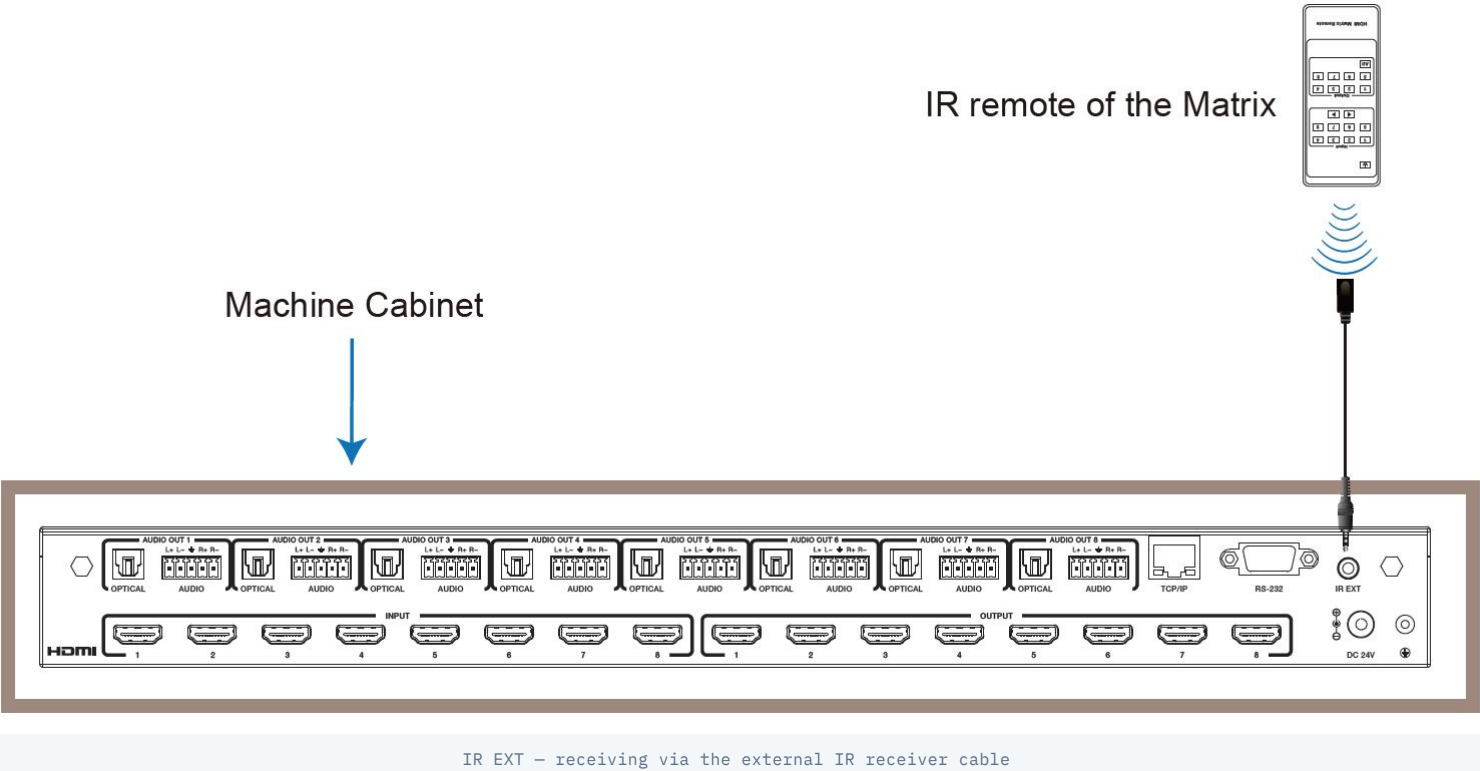
BUTTON REFERENCE

- **Power on / Standby** — power on the matrix or set it to standby.
- **Input 1–8** — select the input source.
- **◀▶** — select the previous or next input source.
- **Output 1–8** — select the output display device.
- **All** — select all output channels simultaneously. For example, press “All” then Input “1” to send input 1 to every display.

Operation: press the output button first (Output-X, X = 1–8 or “All”), then press the input button (Input-Y, Y = 1–8) to route that source to the selected output(s).

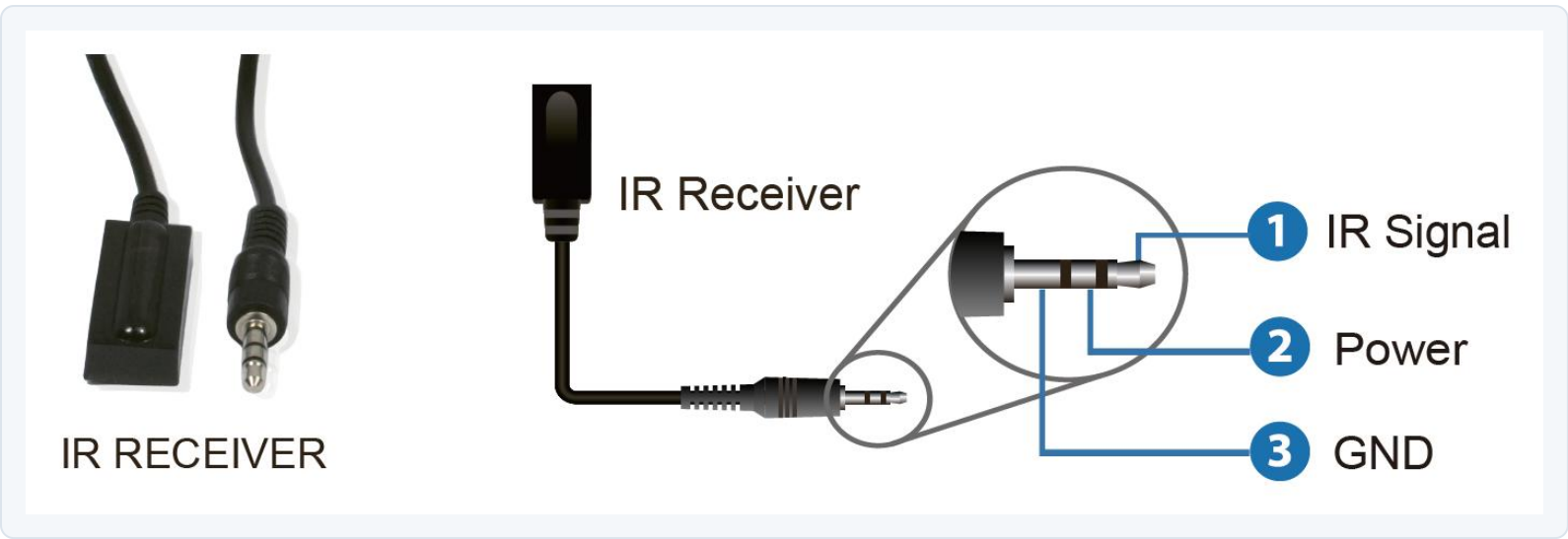


There are two ways to receive the IR remote signal. **First:** the IR window on the unit accepts the signal directly — up to 8 meters head-on, or 5 meters at up to $\pm 45^\circ$. **Second:** if the IR window is blocked or the unit is in a closed area, connect the IR receiver cable to the “IR EXT” port — up to 5 meters head-on, or 3 meters at up to $\pm 45^\circ$.



07 IR Cable Pin Assignment

Wiring reference for the included IR receiver cable.



1	IR Signal	Carries the received infrared signal to the matrix.
2	Power	Supplies power to the IR receiver head.
3	GND	Ground reference.

08 EDID Management

12 factory-defined EDID settings, 2 user-defined modes, and 8 copy-EDID modes.

You can select a defined EDID mode or a copy-EDID mode for any input port through front-panel buttons, RS-232 control, or the Web GUI.

On-panel operation: on the initial LCD screen, press **MENU** to enter the first level, press **UP/DOWN** to select “INPUT”, then **ENTER**. The “EDID” item appears — press **ENTER**, then **UP/DOWN** to select the EDID mode you need, then **ENTER** to confirm.

RS-232 operation: connect the matrix to a PC with a serial cable, open a serial command tool, and send the ASCII command `s input x edid z!` to set EDID. See “EDID Setting” in Chapter 10, RS-232 Control Command.

Web GUI operation: see the EDID management controls on the Input page in Chapter 09, Web GUI User Guide.

DEFINED EDID SETTING LIST	
NO.	EDID MODE
1	4K60, 2.0CH
2	4K60, 5.1CH
3	4K60, 7.1CH
4	4K30, 2.0CH
5	4K30, 5.1CH
6	4K30, 7.1CH
7	1080P, 2.0CH
8	1080P, 5.1CH
9	1080P, 7.1CH
10	1920×1200, 2.0CH
11	1360×768, 2.0CH
12	1024×768, 2.0CH
13	USER1
14	USER2
15	COPY OUT1
16	COPY OUT2
17	COPY OUT3
18	COPY OUT4
19	COPY OUT5
20	COPY OUT6
21	COPY OUT7
22	COPY OUT8

09 Web GUI User Guide

The matrix can be controlled by its built-in Web GUI. The operation method is shown below.

1 GET THE CURRENT IP ADDRESS

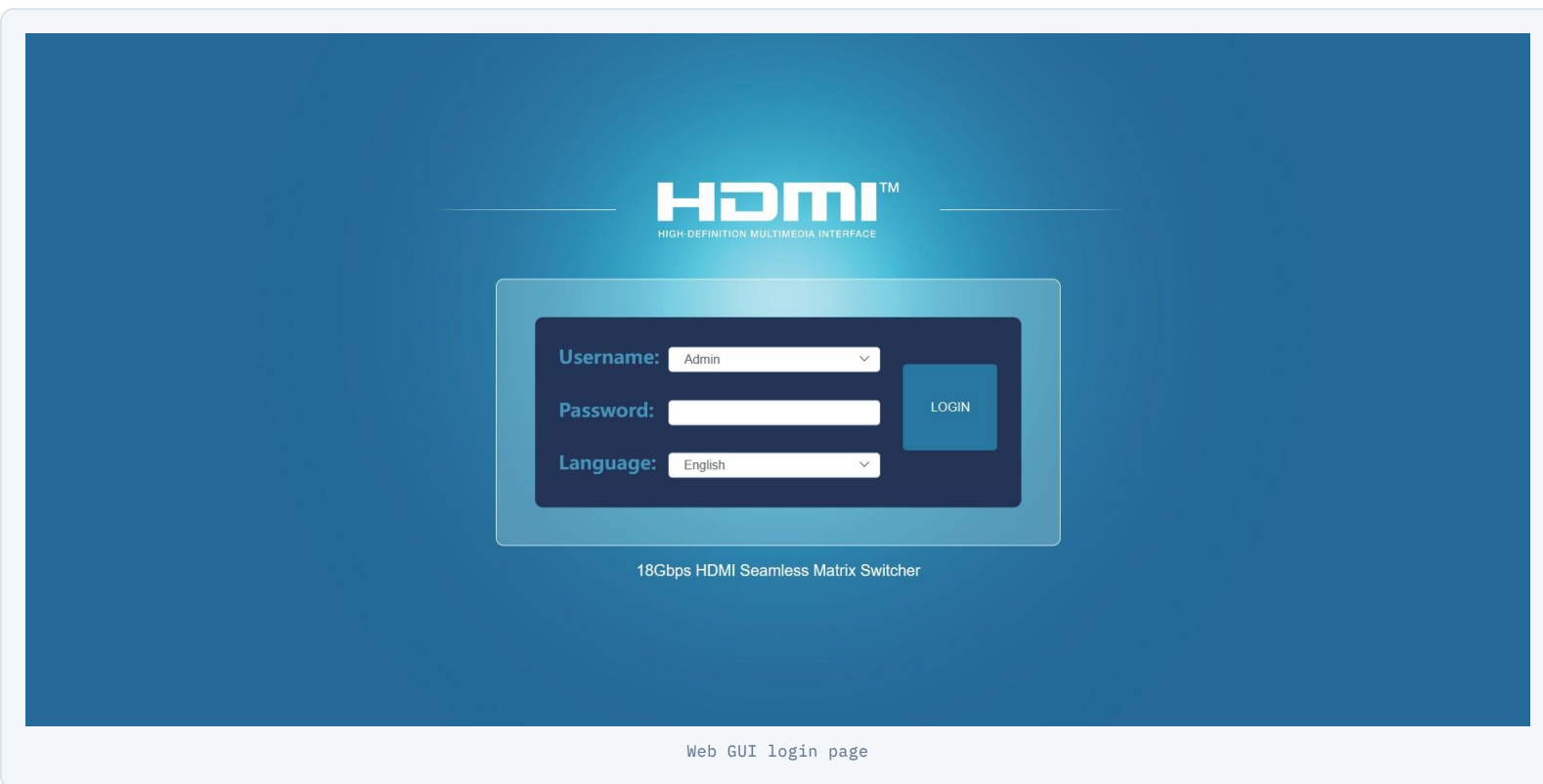
The default IP address is **192.168.0.100**. You can get the current IP address two ways. **Via the front panel:** on the initial LCD screen, press **MENU** to enter the first level, press **UP/DOWN** to select “SETUP”, then **ENTER** for the second level; press **UP/DOWN** to select “IP INFO”, then **ENTER** to check the IP. **Via RS-232:** send the command `␣ ip add␣!` through an ASCII command tool, and you'll receive the feedback IP: 192.168.0.100 (the IP address is variable, depending on what the specific unit returns). See Chapter 10, RS-232 Control Command, for full ASCII control details.

2 CONNECT AND MATCH NETWORK SEGMENT

Connect the TCP/IP port of the matrix to a PC with a UTP cable, and set the PC's IP address to be in the same network segment as the matrix.

3 LOG IN

Input the matrix's IP address into your browser on the PC to reach the login page.



Select the username and enter the password. The default credentials are Username **User** / Password **user**, or Username **Admin** / Password **admin**. Select the username “Admin”, enter password “admin”, select the desired language, then click “LOGIN”.

Status Page

The Status page provides basic information about the model, installed firmware version, and network settings of the device.

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

Status

Matrix

Input

Output

VideoWall

Ext-Audio

CEC

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Admin

Log out

Power on

Status

Model	HDP-MXB88VW
Firmware Version	V1.00.01/V1.00.05
Hostname	IP-module-A62BB
IP Address	192.168.120.103
Subnet Mask	255.255.255.0
Gateway	192.168.120.1
MAC Address	6C:DF:FB:0A:62:BB

Status page – the “Model” field is genuine firmware-reported data and always reads HDP-MXB88VW, matching what the unit reports over RS-232

Matrix Page

On the Matrix page you can configure the HDMI matrix freely and create a preset if needed.

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Output 1
Input 1

Output 2
Input 2

Output 3
Input 3

Output 4
Input 4

Output 5
Input 5

Output 6
Input 6

Output 7
Input 7

Output 8
Input 8

Input 1

Input 2

Input 3

Input 4

Input 5

Input 6

Input 7

Input 8

◀

▶

Scenes Name	Scenes Set	Scenes Save	Scenes Clear
Preset 1	Set	Save	Clear
Preset 2	Set	Save	Clear
Preset 3	Set	Save	Clear
Preset 4	Set	Save	Clear
Preset 5	Set	Save	Clear
Preset 6	Set	Save	Clear
Preset 7	Set	Save	Clear
Preset 8	Set	Save	Clear

1

Matrix

Click and select an output (1–8) first, then select an input source (1–8) below, which appears in the selected output area. One route of video configuration is complete — switch it freely.

2

Preset

Set, save, or clear any routed matrix configuration as needed.

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Input Page

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Input Setting

Inputs	Active	Name	EDID
HDMI 1		Input 1	4k60,2.0CH
HDMI 2		Input 2	4k60,2.0CH
HDMI 3		Input 3	4k60,5.1CH
HDMI 4		Input 4	4k60,7.1CH
HDMI 5		Input 5	4k30,2.0CH
HDMI 6		Input 6	4k30,5.1CH
HDMI 7		Input 7	4k30,7.1CH
HDMI 8		Input 8	1080P,2.0CH

Load EDID to user memory

Select EDID File:

Browse...

Select Destination:

User Define1

Upload

Download EDID to your computer

Select EDID File:

HDMI IN1

Download

- 1

Inputs

Input channel of the device.
- 2

Active

Indicates whether the channel is connected to a signal source — green if detected, gray if not.
- 3

Name

The input channel's name — editable, max length 32 characters.
- 4

EDID

Shows the current EDID of the device. Click the drop-down to select another EDID.
- 5

Load EDID to user memory

Set EDID for the user. Click “Browse”, select the .bin file — an incorrect file triggers a warning prompt. Select the correct file, choose destination “User Define1/User Define2”, and click “Upload”.
- 6

Download EDID

To save an existing EDID, select the input channel from the “Select EDID File” drop-down, then click “Download” to save the EDID file to your computer.

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Input Setting

Inputs	Active	Name	EDID
HDMI 1		Input 1	4k60,2.0CH
HDMI 2		Input 2	4k60,2.0CH
HDMI 3		Input 3	4k60,2.0CH
HDMI 4		Input 4	4k60,2.0CH
HDMI 5		Input 5	4k60,2.0CH
HDMI 6		Input 6	4k60,2.0CH
HDMI 7		Input 7	4k60,2.0CH
HDMI 8		Input 8	4k60,2.0CH

Load EDID to user memory

Select EDID File:

Browse...

Select Destination:

User Define1

Upload

Download EDID to your computer

Select EDID File:

HDMI IN1

Download

Load EDID to user memory — file-select warning

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Output Setting

Outputs	Cable	Name	Resolution	Color Space	HDCP	Mirror	Stream
HDMI 1		Output 1	1920x1080p60	RGB444	Follow Sink	Mirror Off	Off On
HDMI 2		Output 2	1920x1080p60	RGB444	Follow Sink	Mirror Off	Off On
HDMI 3		Output 3	1920x1080p60	RGB444	Follow Sink	Mirror Off	Off On
HDMI 4		Output 4	1920x1080p60	RGB444	Follow Sink	Mirror Off	Off On
HDMI 5		Output 5	3840x2160p60	RGB444	Follow Sink	Mirror Off	Off On
HDMI 6		Output 6	3840x2160p60	RGB444	Follow Sink	Mirror Off	Off On
HDMI 7		Output 7	3840x2160p60	RGB444	Follow Sink	Mirror Off	Off On
HDMI 8		Output 8	3840x2160p60	RGB444	Follow Sink	Mirror Off	Off On

Download EDID — success confirmation

Output Page

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Video Wall Setting

Rows

2

Columns

4

Read

Set

Scenes

Scenes Name	Scenes Set	Scenes Save	Scenes Clear
Preset 1	Set	Save	Clear
Preset 2	Set	Save	Clear
Preset 3	Set	Save	Clear
Preset 4	Set	Save	Clear
Preset 5	Set	Save	Clear
Preset 6	Set	Save	Clear
Preset 7	Set	Save	Clear
Preset 8	Set	Save	Clear

Video Wall

Input 1

Input 2

Input 3

Input 4

Input 5

Input 6

Input 7

Input 8

1	Outputs	Output channel of the device.
2	Cable	Shows the connection status of output ports — green when connected to a display, gray otherwise.
3	Name	The output channel's name — editable, max length 32 characters.
4	Resolution	Set the video resolution for the current output — 24 options, or AUTO to follow the display's EDID.
5	Color Space	Set the color space for the current output — four options.
6	HDCP	Set the HDCP version for the current output — HDCP 1.4, HDCP 2.2, Follow Sink, Follow Source, or User Mode.
7	Mirror	Set the mirror mode — Mirror Off, H Mirror On, V Mirror On, or H+V Mirror On.
8	Stream	Turn the output stream on or off.

Video Wall Page

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Video Wall Setting

Rows

2

Columns

3

Read

Set

Presets

Presets Name	Presets Set	Presets Save	Presets Clear
Preset 1	Set	Save	Clear
Preset 2	Set	Save	Clear
Preset 3	Set	Save	Clear
Preset 4	Set	Save	Clear
Preset 5	Set	Save	Clear
Preset 6	Set	Save	Clear
Preset 7	Set	Save	Clear
Preset 8	Set	Save	Clear

Video Wall

Screen Stitching

Cancel Stitching

Input Source

Remap Output

Output Resolution

H Bezel

V Bezel

Sync Lock

- 1

Video Wall Setting

Set the splicing mode, e.g. 1×8, 2×3 — rows and columns each range 1–8. Click “Read” to refresh, “Set” to confirm.
- 2

Presets

Set, save, or clear presets — rename as needed, max length 32 characters.
- 3

Video Wall

After setting rows and columns, click “Set” — it displays in the Video Wall area. Aspect ratio of each window is 16:9.

In the Video Wall area, drag the mouse to select adjacent screens to splice — the spliced group is distinguished automatically by color. Assign each spliced screen to its output port via the right-click menu before splicing.

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2

Columns

3

Read

Set

Presets

Presets Name	Presets Set	Presets Save	Presets Clear
Preset 1	Set	Save	Clear
Preset 2	Set	Save	Clear
Preset 3	Set	Save	Clear
Preset 4	Set	Save	Clear
Preset 5	Set	Save	Clear
Preset 6	Set	Save	Clear
Preset 7	Set	Save	Clear
Preset 8	Set	Save	Clear

Video Wall

Screen Stitching

Cancel Stitching

Input Source

Remap Output

Output Resolution

H Bezel

V Bezel

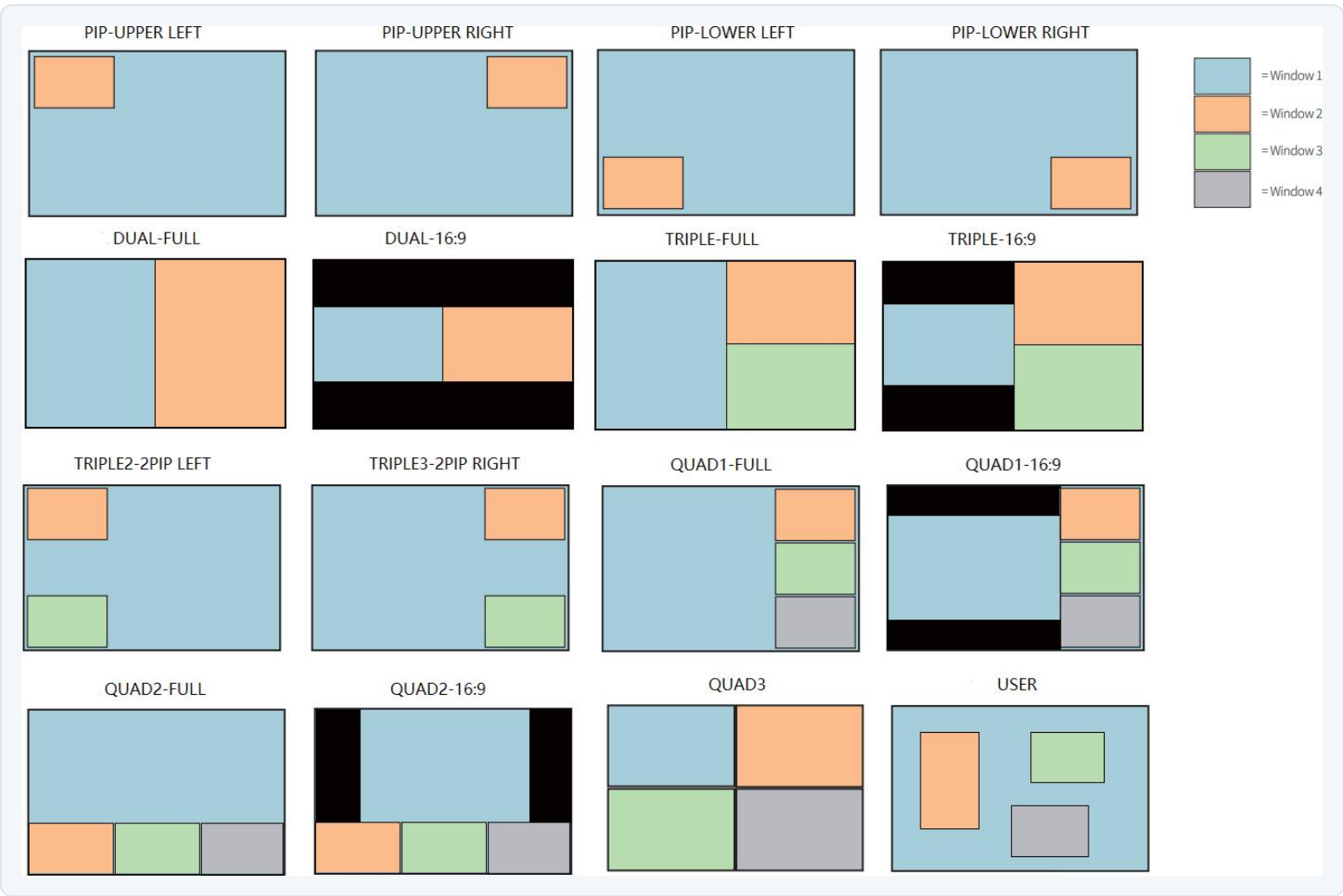
Sync Lock

Right-click menu on a spliced group

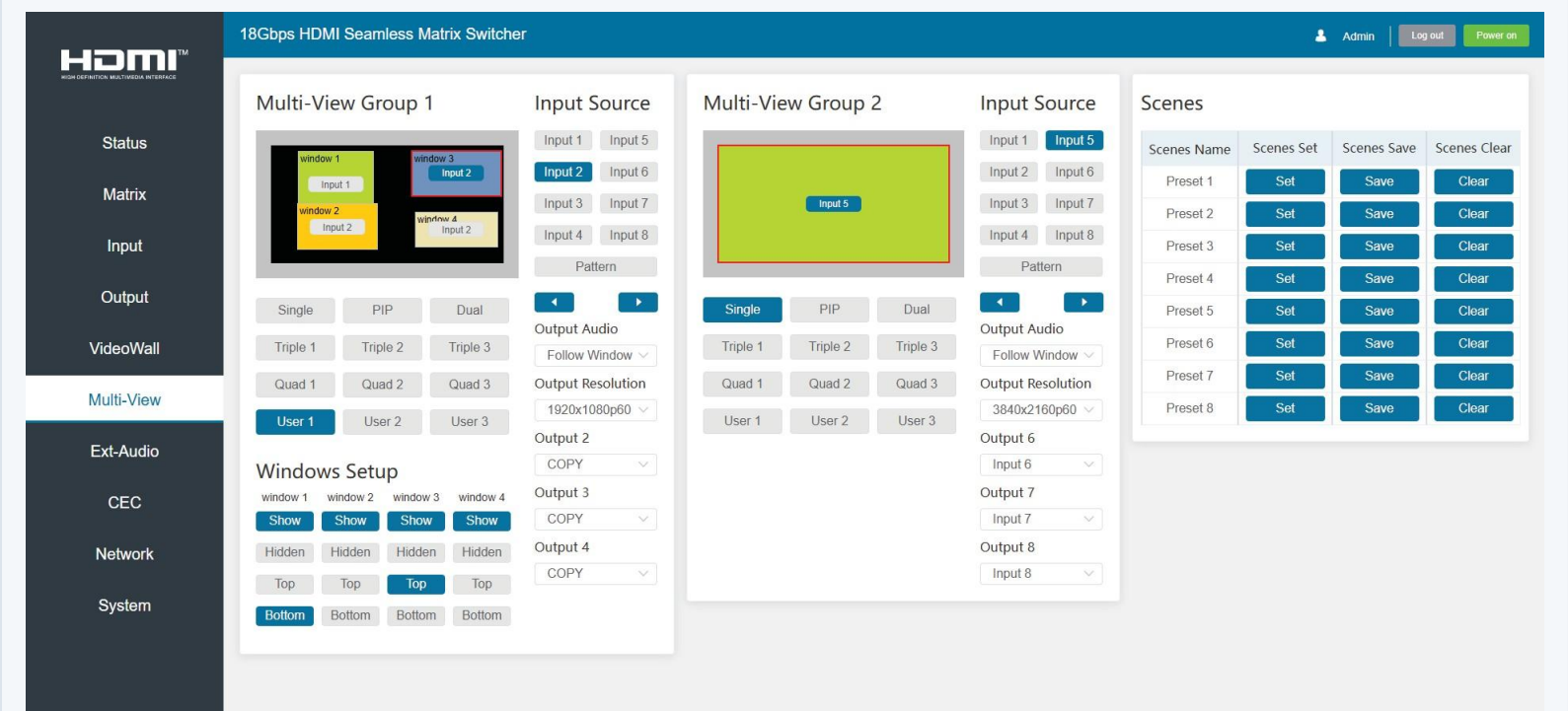
For spliced screens, the right-click menu also lets you: cancel the splicing, select an input source, specify an output resolution, adjust horizontal/vertical bezel, and set output synchronization.

Multi-view Page

The matrix supports multiple display modes: SINGLE, PIP, Dual, Triple 1/2/3, Quad 1/2/3, User 1/2/3. SINGLE lets you select the input; PIP adds sub-window size/position; Dual/Triple/Quad modes add display-mode and aspect selection.



Select the input source for each window area, then set the output resolution from the drop-down. Output audio can follow the corresponding window as required.



In a user-defined mode: all four windows display by default, each can be dragged and zoomed freely, and the “Windows Setup” buttons configure the display of each window. Up to 8 presets are supported, and preset names can be modified.

Notes: Group 1 is used for Output 1–4, Group 2 for Output 5–8. The input sources selected for each output must total 4 or fewer. Output 2/3/4 settings can copy from Output 1; Output 6/7/8 settings can copy from Output 5.

Ext-Audio Page

Set the audio mode here — three modes: Bind to Input, Bind to Output, and Audio Matrix.

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AdminLog outPower on

Ext-Audio

Mode: Bind to InputBind to OutputAudio Matrix

Audio Output 1

Input 3

DisabledEnabled

Audio Output 2

Input 2

DisabledEnabled

Audio Output 3

Input 2

DisabledEnabled

Audio Output 4

Input 4

DisabledEnabled

Audio Output 5

Input 5

DisabledEnabled

Audio Output 6

Input 6

DisabledEnabled

Audio Output 7

Input 7

DisabledEnabled

Audio Output 8

Input 8

DisabledEnabled

Input 1

Input 2

Input 3

Input 4

Input 5

Input 6

Input 7

Input 8

Bind to Input – the audio output follows the HDMI input

Bind to Input: audio output follows the HDMI input, one-to-one. Click Enable/Disable to turn a channel on or off. In this mode, input sources can't be selected individually.

Bind to Output: audio output follows the HDMI output. For example, if HDMI Input 3 is routed to HDMI Output 1, Audio Output 1 (which follows HDMI Output 1) carries audio from HDMI Input 3. Input sources can't be selected individually in this mode either.

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Ext-Audio

Mode: Bind to InputBind to OutputAudio Matrix

Audio Output 1

Input 8

DisabledEnabled

Audio Output 2

Input 2

DisabledEnabled

Audio Output 3

Input 5

DisabledEnabled

Audio Output 4

Input 4

DisabledEnabled

Audio Output 5

Input 4

DisabledEnabled

Audio Output 6

Input 6

DisabledEnabled

Audio Output 7

Input 7

DisabledEnabled

Audio Output 8

Input 2

DisabledEnabled

Input 1

Input 2

Input 3

Input 4

Input 5

Input 6

Input 7

Input 8

Audio Matrix – extracted audio routed independently

CEC Page

The screenshot displays the web interface for an 18Gbps HDMI Seamless Matrix Switcher. The interface is divided into a left sidebar, a top header, and a main content area.

Header: The top header is blue and contains the text "18Gbps HDMI Seamless Matrix Switcher" on the left, and user controls on the right including a user icon labeled "Admin", a "Log out" button, and a "Power on" button.

Sidebar: The left sidebar is dark blue and contains a list of navigation options: "Status", "Matrix", "Input", "Output", "VideoWall", "Multi-View", "Ext-Audio", "CEC", "Network", and "System". The "CEC" option is currently selected and highlighted in a lighter blue.

Main Content Area: The main content area is white and features two primary control panels: "Input Control" and "Output Control".

Input Control Panel: This panel allows selection and control of 8 input sources. It includes a list of inputs (Input 1 to Input 8) on the left. Input 1 is currently selected, indicated by a blue highlight. To the right of the list are three columns of controls: a green power button, a red power button, and a series of navigation icons (up, down, left, right, and others) for selecting different inputs.

Output Control Panel: This panel allows selection and control of 8 output destinations. It includes a list of outputs (Output 1 to Output 8) on the left. Output 1 is currently selected, indicated by a blue highlight. To the right of the list are three columns of controls: a green power button, a red power button, and a series of navigation icons (up, down, left, right, and others) for selecting different outputs.

- | | | |
|---|-----------------------|---|
| 1 | Input Control | Select the input source, then click icons to power on/off, return, switch, pause, fast-forward, fast-back, mute, unmute, etc. |
| 2 | Output Control | Select the output, then click icons to control the display — power on/off, volume +/–, etc. |

Network Page

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

Status

Matrix

Input

Output

VideoWall

Multi-View

Ext-Audio

CEC

Network

System

18Gbps HDMI Seamless Matrix Switcher

Admin

Log out

Power on

IP Setting

IP Mode

Static

DHCP

IP Address

192.168.0.100

Subnet

255.255.0.0

TCP Port

8000

Gateway

192.168.0.1

Telnet Port

23

Web Login Setting

User Name

User

Admin

Old Password

New Password

Confirm Password

Product Model

HDP-MXB88VW-345

Set Network Defaults

Save

Modify network setting: set IP Mode / IP Address / Gateway / Subnet Mask / Telnet Port as required, click “Save”. If Mode is “Static”, set the fields manually; if “DHCP”, IP parameters are assigned by the outer router (or a default value if none is connected).

Modify user password: click “Admin”, enter the Old Password, New Password and Confirm Password, then “Save”. Rules: the password can't be empty; the new password can't match the old one; New Password and Confirm Password must match.

Set default network: click “Set Network Defaults”, confirm, and the matrix searches for its IP address again before returning to the login page.

System Page

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HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

Status

Matrix

Input

Output

VideoWall

Multi-View

Ext-Audio

CEC

Network

System

18Gbps HDMI Seamless Matrix Switcher

Admin

Log out

Power on

Panel Lock

OFF

ON

Beep

OFF

ON

LCD ON Time

OFF

Always ON

15s

30s

60s

Pattern

Black Screen

Blue Screen

Color Bar

Gray Scale

Cross

Cross Hatch

Serial Baud Rate

115200

57600

38400

19200

9600

4800

Firmware Update

Browse...

Update

Factory Reset

Reset

Reboot

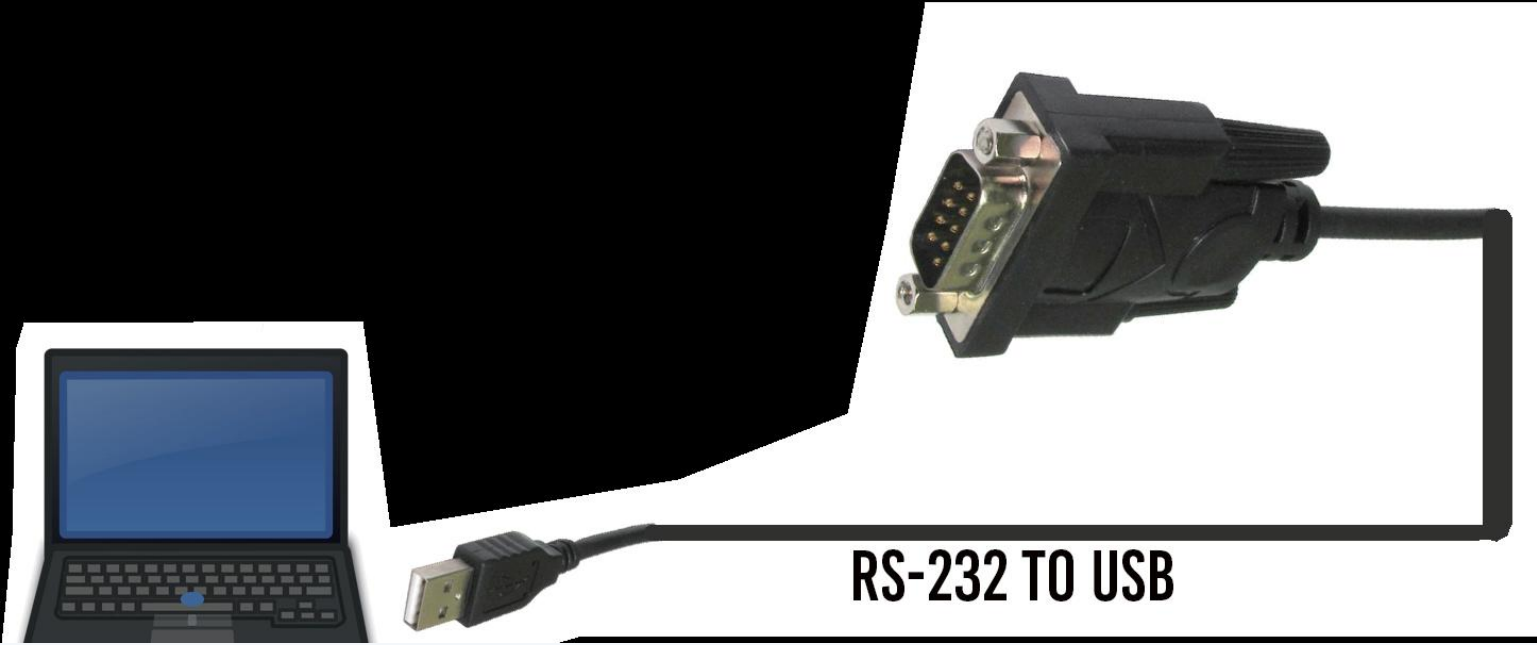
Reboot

- | | | |
|---|------------------|---|
| 1 | Panel Lock | ON locks front-panel buttons; OFF leaves them available. |
| 2 | Beep | Turn the beep on or off. |
| 3 | LCD On Time | Set the display duration – OFF / Always ON / 15s / 30s / 60s. |
| 4 | Pattern | Select from 6 test patterns to check the display's rendering. |
| 5 | Serial Baud Rate | Click a value to set the serial baud rate. |
| 6 | Firmware Update | Click “Browse” to select the update file, then “Update” to complete it. |
| 7 | Factory Reset | Reset the unit to factory defaults. |
| 8 | Reboot | Reboot the unit. |

After a reset or reboot, the Web GUI returns to the login page.

10 RS-232 Control Command

Full ASCII command reference. Serial protocol: baud rate 115200 (default), 8 data bits, 1 stop bit, no parity.



RS-232 connection – matrix to PC via the included USB-to-RS-232 serial cable

Connect the RS-232 control port on the matrix to a PC with the provided USB-to-RS-232 serial cable, then open a serial command tool on the PC to send ASCII commands. In the tables below, x, y, z and XXX are parameters. Error codes: E00 unknown command, E01 parameter out of range, E02 EDID read error.

Note on device identity: the `x type!` command and the Web GUI's “Model” field report the unit's own firmware-level identity string, which reads HDP-MXB88VW regardless of the BLU-HDM2-88VW branding on the enclosure and in this document — this is normal and matches genuine device behavior.

SYSTEM SETTING				
COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
<code>help!</code>	List all commands	<code>help!</code>		
<code>x status!</code>	Get device current status	<code>x status!</code>	get the unit all status: power, beep, lock, in/out connection, video/audio crosspoint, edid, scaler, network status	
<code>x type!</code>	Get device model	<code>x type!</code>	HDP-MXB88VW	
<code>x fw version!</code>	Get firmware version	<code>x fw version!</code>	mcu fw version :1.00.05 web gui version :2.00.07 cpld version :1.00.03 audio version :1.00.01 key version :0.00.00	
<code>s power z!</code>	Power on/off the device, z=0~1 (0=off, 1=on)	<code>s power 1!</code>	power on system initializing... cpld fw: 1.00.03 audio fw: 1.00.01 mcu fw version :1.00.05 web gui version :2.00.07 key version :0.00.00 initialization finished! search for ip,please wait ...!	
<code>x power!</code>	Get current power state	<code>x power!</code>	power on / power off	
<code>s beep z!</code>	Enable/disable buzzer, z=0~1 (0=off, 1=on)	<code>s beep 1!</code>	beep on	beep off
<code>x beep!</code>	Get buzzer state	<code>x beep!</code>	beep on / beep off	
<code>s lock z!</code>	Lock/unlock front panel buttons, z=0~1 (0=off, 1=on)	<code>s lock 1!</code>	panel button lock on	panel button lock off
<code>x lock!</code>	Get panel button lock state	<code>x lock!</code>	panel button lock on/off	

BLU-HDM2-88VW		18GBPS 8x8 SEAMLESS MATRIX · USER MANUAL		
s lcd on time z!	Set LCD remain-on time, z=0~4 (0:off 1:always 2:15s 3:30s 4:60s)	s lcd on time 3!	lcd on 30 seconds	lcd on 30 seconds
r lcd mode!	Get the backlight status of the LCD screen	r lcd mode!	lcd always on	
s logo1****...!	Set the logo shown on line 1 of the LCD, max 16 characters	s logo1 Matrix Switch!	logo1: Matrix Switch	
s reboot!	Reboot the device	s reboot!	reboot... system initializing... cpld fw: 1.00.03 audio fw: 1.00.01 mcu fw version: 1.00.05 web gui version: 2.00.07 key version: 0.00.00 initialization finished! search for ip,please wait ...!	
s baud rate x!	Set RS-232 baud rate, x=1~6 (1:115200 2:57600 3:38400 4:19200 5:9600 6:4800)	s baud rate 1!	s baud rate 115200	115200
s fan x y!	Set fans on/off (x=0 all, 1 side, 2 top; y=0 off, 1 on)	s fan 2 0!	set top fans off	side fans:off top fans:on
s reset!	Reset to factory defaults	s reset!	reset to factory defaults system initializing... cpld fw: 1.00.03 audio fw: 1.00.01 mcu fw version: 1.00.05 web gui version: 2.00.07 key version: 0.00.00 initialization finished! search for ip, please wait ...!	
r device sn!	Get device serial number	r device sn!	serial number:12345634534	

OUTPUT SETTING

COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
s output x res y!	Set output x resolution (x=0~8, 0=all; y=1~24 — see resolution list in 5.3)	s output 1 res 6!	output 1 resolution: 3840x2160p60	3840x2160p60
r output x res!	Get output x resolution (x=0~8, 0=all)	r output 1 res!	output 1 resolution: 3840x2160p60	
s output x csc y!	Set output x color space (x=0~8, 0=all; y=1 rgb444, 2 ycbcr444, 3 ycbcr422, 4 ycbcr420)	s output 1 csc 1!	output 1 csc: rgb444	rgb444
r output x csc!	Get output x color space (x=0~8, 0=all)	r output 1 csc!	output 1 csc: rgb444	
s output x hdcp y!	Set output HDCP (x=0~8, 0=all; y=1 hdcp1.4, 2 hdcp2.2, 3 follow sink, 4 follow source, 5 user mode)	s output 1 hdcp 1!	output 1 hdcp: hdcp 1.4	follow sink
r output x hdcp!	Get output x HDCP status (x=0~8, 0=all)	r output 1 hdcp!	output 1 hdcp: hdcp 1.4	
s output x mirror y!	Set output mirror mode (x=0~8, 0=all; y=0 off, 1 h, 2 v, 3 h+v)	s output 1 mirror 0!	output 1 mirror off	output 1-8 mirror off
r output x mirror!	Get output x mirror status (x=0~8, 0=all)	r output 1 mirror!	output 1 h mirror off	
s output x stream y!	Set output stream enable/disable (x=0~8, 0=all; y=0 disable, 1 enable)	s output 1 stream 1!	output 1 stream: enable	enable
r output x stream!	Get output x stream status (x=0~8, 0=all)	r output 1 stream!	output 1 stream: enable	
s output bg x!	Set no-signal background (x=1 black, 2 blue, 3 color bar, 4 gray scale, 5 cross, 6 cross hatch)	s output bg 1!	output background: black screen	black screen
r output bg!	Get no-signal background display mode	r output bg!	output background: black screen	

EDID SETTING

COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
s input x edid z!	Set input x EDID mode (x=0~8, 0=all; z=1~22 — see EDID list in Chapter 08)	s input 1 edid 1!	input 1 edid: 4k60, 2.0ch	4k60, 2.0ch
r input x edid!	Get input x EDID mode (x=0~8, 0=all)	r input 1 edid!	input 1 edid: 4k60, 2.0ch	

VIDEO MATRIX SETTING

COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
s display mode x!	Set output display mode (x=0 matrix mode, 1 video wall mode)	s display mode 0!	display mode: matrix	matrix
r display mode!	Get output display mode	r display mode!	display mode: matrix	
s output x in source y!	Route input y to output x (x=0~8, 0=all; y=1~8)	s output 1 in source 1!	output 1->input 1	output N->input N (1:1)
r output x in source!	Get output x's selected input source (x=0~8, 0=all)	r output 1 in source!	output 1->input 1	
save mx preset z!	Save matrix state to preset z, z=1~8	save mx preset 1!	save to preset 1	
recall mx preset z!	Recall matrix preset z, z=1~8	recall mx preset 1!	recall from preset 1	
clear mx preset z!	Clear matrix preset z, z=1~8	clear mx preset 1!	clear preset 1	
r mx preset z!	Get matrix preset z information, z=1~8	r mx preset 1!	video/audio crosspoint	

VIDEO WALL SETTING

COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
create vw screen row x col y!	Create video wall screen rows/columns (x=1~8, y=1~8)	create vw screen row 2 col 4!	create vw screen 2x4	
s screen x output y!	Set HDMI output y to screen x (x=1~8, y=1~8)	s screen 1 output 1!	hdmi output1->screen 1	hdmi output N->screen N
s vw group z row x col y!	Set video wall group z rows/columns (z=1~4, x,y=1~8, x*y<=8)	s vw group 1 row 1 col 2!	vw group 1 row 1 col 2!	
s vw group z screen abcd!	Set video wall group z screen numbers (z=1~4)	s vw group 2 screen 2367!	vw group 2 screen 2367!	
s vw group z source x!	Set video wall group z input source (z=1~4, x=1~8)	s vw group 1 source 1!	vw group 1 source 1!	
s vw group z hbezel x!	Set video wall group z horizontal bezel (z=1~4, x=0~10)	s vw group 1 hbezel 0!	video wall group 1 h bezel: 0	video wall group 1 h bezel: 0
s vw group z vbezel y!	Set video wall group z vertical bezel (z=1~4, y=0~10)	s vw group 1 vbezel 0!	video wall group 1 v bezel: 0	video wall group 1 v bezel: 0
s vw group z out res x!	Set video wall group z output resolution (z=1~4, x=1~23 — see resolution list)	s vw group 1 out res 6!	video wall group 1 resolution: 1920x1080p60	1920x1080p60
delete vw group z!	Delete video wall group z config, z=1~4	delete vw group 1!	delete vw group 1!	
r vw info!	Get current video wall scene information	r vw info!	video wall info: row/col/output/input/mosaic details	
save vw preset z!	Save video wall state to preset z, z=1~8	save vw preset 1!	save to preset 1	
recall vw preset z!	Recall video wall preset z, z=1~8	recall vw preset 1!	recall from preset 1	
clear vw preset z!	Clear video wall preset z, z=1~8	clear vw preset 1!	clear preset 1	
r vw preset z!	Get video wall preset z information, z=1~8	r vw preset 1!	video/audio crosspoint	

MULTI-VIEW SETTING

COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
s mv x mode y!	Set multi-viewer display mode (x=1~2 group; y=1~12 mode)	s mv 1 mode 1!	multiview 1 mode:single	single
r mv x mode!	Get multi-viewer display mode (x=0~2, 0=all)	r mv 1 mode!	multiview 1 mode:single	
s mv x window y in z!	Select input z for window y in group x (x=1~2, y=1~4, z=1~9, 9=pattern)	s mv 1 window 1 in 1!	multiview 1 window 1 select input1	
r mv x window y in!	Get window y's selected input (x=1~2, y=0~4)	r mv 1 window 1 in!	multiview 1 window 1 select input 1	
s mv x pip position y!	Set PIP window position (x=1~2; y=1 upper-left, 2 lower-left, 3 upper-right, 4 lower-right)	s mv 1 pip position 3!	multiview 1 pip on upper right	pip on upper right
r mv x pip position!	Get PIP window position (x=1~2)	r mv 1 pip position!	multiview 1 pip on upper right	
s mv x pip size y!	Set PIP window size (x=1~2; y=1 small, 2 middle, 3 large)	s mv 1 pip size 3!	multiview 1 pip size:large	pip size: large
r mv x pip size!	Get PIP window size (x=1~2)	r mv 1 pip size!	multiview 1 pip size:large	
s mv x aspect y!	Set window display aspect (x=1~2; y=1 full screen, 2 16:9)	s mv 1 aspect 1!	multiview 1 aspect:full screen	aspect: full screen
r mv x aspect!	Get window display aspect (x=1~2)	r mv 1 aspect!	multiview 1 aspect:full screen	
s mv x output audio y!	Set multi-viewer output audio source (x=1~2; y=1~4 window audio, 5 mute)	s mv 1 output audio 1!	multiview 1 output audio:select window1 audio	select window1 audio
r mv x output audio!	Get multi-viewer output audio source (x=1~2)	r mv 1 output audio!	multiview 1 output audio:follow window 1 selected source	
s mv x res y!	Set multi-viewer resolution (x=1~2; y=1~23 — see resolution list)	s mv 1 res 6!	multiview 1 resolution:3840x2160p60	3840x2160p60
r mv x res!	Get multi-viewer resolution (x=1~2)	r mv 1 res!	multiview resolution:3840x2160p60	
s mv x output y source z!	Set the source for another output copying multiview (x=1~2; y=2/3/4/6/7/8; z=0 copy, 1~8 input)	s mv 2 output 6 source 0!	multiview 2 output 6 source:copy	multiview copy
r mv x output y source!	Get the source for another output (x=1~2; y=2/3/4/6/7/8)	r mv 2 output 6 source!	multiview 2 output 6 source:copy	
save mv preset z!	Save multiview state to preset z, z=1~8	save mv preset 1!	save to preset 1	
recall mv preset z!	Recall multiview preset z, z=1~8	recall mv preset 1!	recall from preset 1	
clear mv preset z!	Clear multiview preset z, z=1~8	clear mv preset 1!	clear preset 1	
r mv preset z!	Get multiview preset z information, z=1~8	r mv preset 1!	group1/group2: mode, window src, resolution, audio src, out src	

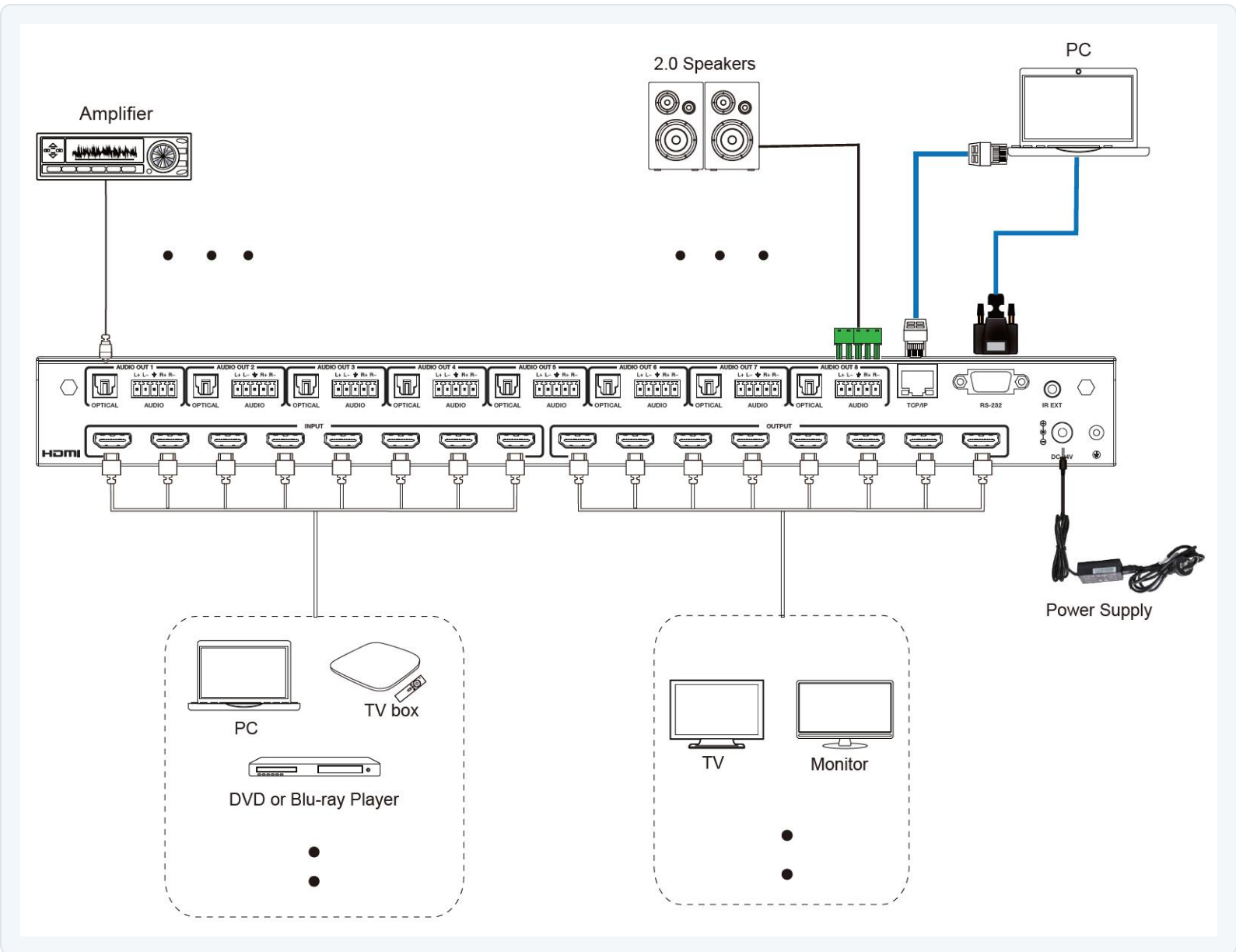
BLU-HDM2-88VW		18GBPS 8×8 SEAMLESS MATRIX · USER MANUAL		
EXT-AUDIO SETTING				
COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
s output x exa y!	Set output ext-audio enable/disable (x=0~8, 0=all; y=0 disable, 1 enable)	s output 1 exa 1!	output 1 ext-audio: enable	enable
r output x exa!	Get output x ext-audio status (x=0~8, 0=all)	r output 1 exa!	output 1 ext-audio: enable	
s output exa mode x!	Set output ext-audio mode (x=0 bind to input, 1 bind to output, 2 matrix)	s output exa mode 0!	output ext-audio mode: bind to input	bind to output
r output exa mode!	Get output ext-audio mode	r output exa mode!	output ext-audio mode: bind to input	
s output x exa in source y!	Route input audio y to ext-audio output x (x=0~8, 0=all; y=0~8)	s output 1 exa in source 1!	output 1 ext-audio ->input 1	output N ext-audio->input N (1:1)
r output y exa in source!	Get ext-audio output y's selected input source (y=0~8, 0=all)	r output 0 exa in source!	output 1~8 ext-audio->input 1~8	
CEC SETTING				
COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
s cec in x on!	Power on input x by CEC (x=0~8, 0=all)	s cec in 1 on!	input 1 power on	
s cec in x off!	Power off input x by CEC (x=0~8, 0=all)	s cec in 1 off!	input 1 power off	
s cec in x menu!	Open menu on input x by CEC (x=0~8, 0=all)	s cec in 1 menu!	input 1 open menu	
s cec in x back!	Back operation on input x by CEC (x=0~8, 0=all)	s cec in 1 back!	input 1 back operation	
s cec in x up!	Menu-up on input x by CEC (x=0~8, 0=all)	s cec in 1 up!	input 1 menu up operation	
s cec in x down!	Menu-down on input x by CEC (x=0~8, 0=all)	s cec in 1 down!	input 1 menu down operation	
s cec in x left!	Menu-left on input x by CEC (x=0~8, 0=all)	s cec in 1 left!	input 1 menu left operation	
s cec in x right!	Menu-right on input x by CEC (x=0~8, 0=all)	s cec in 1 right!	input 1 menu right operation	
s cec in x enter!	Menu-enter on input x by CEC (x=0~8, 0=all)	s cec in 1 enter!	input 1 menu enter operation	
s cec in x play!	Play on input x by CEC (x=0~8, 0=all)	s cec in 1 play!	input 1 play operation	
s cec in x pause!	Pause on input x by CEC (x=0~8, 0=all)	s cec in 1 pause!	input 1 pause operation	
s cec in x stop!	Stop on input x by CEC (x=0~8, 0=all)	s cec in 1 stop!	input 1 stop operation	
s cec in x rew!	Rewind on input x by CEC (x=0~8, 0=all)	s cec in 1 rew!	input 1 rewind operation	
s cec in x mute!	Volume mute on input x by CEC (x=0~8, 0=all)	s cec in 1 mute!	input 1 volume mute	
s cec in x vol-!	Volume down on input x by CEC (x=0~8, 0=all)	s cec in 1 vol-!	input 1 volume down	
s cec in x vol+!	Volume up on input x by CEC (x=0~8, 0=all)	s cec in 1 vol+!	input 1 volume up	
s cec in x ff!	Fast-forward on input x by CEC (x=0~8, 0=all)	s cec in 1 ff!	input 1 fast forward operation	
s cec in x previous!	Previous on input x by CEC (x=0~8, 0=all)	s cec in 1 previous!	input 1 previous operation	
s cec in x next!	Next on input x by CEC (x=0~8, 0=all)	s cec in 1 next!	input 1 next operation	
s cec hdmi out y on!	Power on HDMI output y by CEC (y=0~8, 0=all)	s cec hdmi out 1 on!	hdmi output 1 power on	
s cec hdmi out y off!	Power off HDMI output y by CEC (y=0~8, 0=all)	s cec hdmi out 1 off!	hdmi output 1 power off	
s cec hdmi out y mute!	Volume mute HDMI output y by CEC (y=0~8, 0=all)	s cec hdmi out 1 mute!	hdmi output 1 volume mute	
s cec hdmi out y vol-!	Volume down HDMI output y by CEC (y=0~8, 0=all)	s cec hdmi out 1 vol-!	hdmi output 1 volume down	
s cec hdmi out y vol+!	Volume up HDMI output y by CEC (y=0~8, 0=all)	s cec hdmi out 1 vol+!	hdmi output 1 volume up	
s cec hdmi out y active!	Set HDMI output y active source by CEC (y=0~8, 0=all)	s cec hdmi out 1 active!	hdmi output 1 active source	
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NETWORK SETTING

COMMAND	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT
<code>r ipconfig!</code>	Get the current IP configuration	<code>r ipconfig!</code>	<code>ip mode / ip / subnet mask / gateway / tcp-ip port / telnet port / mac address</code>	
<code>r mac addr!</code>	Get network MAC address	<code>r mac addr!</code>	<code>mac address: 00:1c:91:03:80:01</code>	
<code>s ip mode z!</code>	Set network IP mode (z=0 static, 1 dhcp)	<code>s ip mode 0!</code>	<code>set ip mode:static (use "s net reboot!" or repower to apply)</code>	
<code>r ip mode!</code>	Get network IP mode	<code>r ip mode!</code>	<code>ip mode: static</code>	
<code>s ip addr xxx.xxx.xxx.xxx!</code>	Set network IP address	<code>s ip addr 192.168.0.100!</code>	<code>set ip address:192.168.0.100 (use "s net reboot!" or repower to apply; requires static mode)</code>	
<code>r ip addr!</code>	Get network IP address	<code>r ip addr!</code>	<code>ip address:192.168.0.100</code>	
<code>s subnet xxx.xxx.xxx.xxx!</code>	Set network subnet mask	<code>s subnet 255.255.255.0!</code>	<code>set subnet mask:255.255.255.0 (requires static mode)</code>	
<code>r subnet!</code>	Get network subnet mask	<code>r subnet!</code>	<code>subnet mask:255.255.255.0</code>	
<code>s gateway xxx.xxx.xxx.xxx!</code>	Set network gateway	<code>s gateway 192.168.0.1!</code>	<code>set gateway:192.168.0.1 (requires static mode)</code>	
<code>r gateway!</code>	Get network gateway	<code>r gateway!</code>	<code>gateway:192.168.0.1</code>	
<code>s tcp/ip port x!</code>	Set network TCP/IP port (x=1~65535)	<code>s tcp/ip port 8000!</code>	<code>set tcp/ip port:8000</code>	
<code>r tcp/ip port!</code>	Get network TCP/IP port	<code>r tcp/ip port!</code>	<code>tcp/ip port:8000</code>	
<code>s telnet port x!</code>	Set network telnet port (x=1~65535)	<code>s telnet port 23!</code>	<code>set telnet port:23</code>	
<code>r telnet port!</code>	Get network telnet port	<code>r telnet port!</code>	<code>telnet port:23</code>	
<code>s net reboot!</code>	Reboot network modules	<code>s net reboot!</code>	<code>network reboot... ip mode / ip / subnet / gateway / tcp-ip port / telnet port / mac address</code>	

11 Application Example

Eight sources into eight displays, with balanced and optical audio de-embed, network and serial control.



Sources — PCs, TV boxes, DVD/Blu-ray players — connect to the eight HDMI inputs. Displays — TVs, monitors, projectors — connect to the eight HDMI outputs. Each output's de-embedded audio can feed an amplifier (balanced L/R via the 5-pin Phoenix connector) or powered speakers (optical S/PDIF). A PC on the TCP/IP port drives the Web GUI, and the RS-232 port accepts third-party control-system commands as detailed in Chapter 10.

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