



HDS-808

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4K@30Hz 8x8 HDMI™

Matrix

USER MANUAL

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the service life of your equipment.

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Introduction

The HDS-808 8x8 HDMI Matrix Switch is a versatile solution for routing video and audio from eight sources to eight displays via HDMI. Compliant with HDMI 1.4 and HDCP 2.2, it supports 10.2Gbps bandwidth and resolutions up to 4K@30Hz. Each output can downscale from 4K to 1080p as needed. The matrix accommodates various audio formats, including LPCM 2/5.1/7.1CH, Dolby Digital, Dolby Atmos, DTS-HD Master Audio, and DTS:X. It also allows preset saving to save routing configurations and recall them easily whenever needed. The unit is rack mountable which makes it perfect for any personal or commercial setup.



Features & Package Contents

Features

1. HDCP 2.2 compliant
2. 10.2Gbps video bandwidth
3. Video resolutions up to 4K@30Hz
4. LPCM 7.1, Dolby Digital, Dolby TrueHD, Dolby Atmos, DTS-HD MA and DTS:X audio support
5. 4K to 1080p Downscale on each output
6. Advanced EDID management
7. Save up to 8 preset scenes
8. RS-232, WebGUI and IR Remote control
9. 1U rack mountable design

Package Contents

1.	HDS-808	1pcs
2.	Remote	1pcs
3.	Power Adapter	1pcs
4.	User Manual	1pcs

Specifications

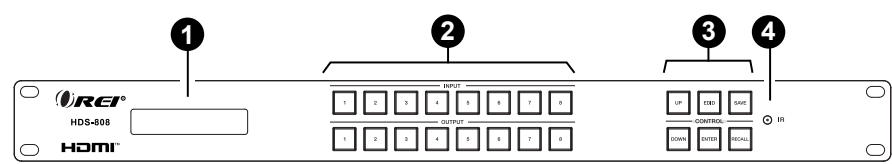
Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 2.2
Video Bandwidth	10.2Gbps
Video Resolution	480i ~ 4K@30Hz
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@30Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@30Hz YCbCr 4:2:2/4:2:0)
Color Space	RGB, YCbCr 4:4:4, YUV 4:4:4, YCbCr 4:2:2/4:2:0
HDMI Audio Formats	LPCM 2.0/5.1/7.1, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Inputs	8 × HDMI [Type A, 19-pin Female]
Outputs	8 × HDMI [Type A, 19-pin Female]
Control	1 × LAN [RJ45] 1 × RS-232 [D-Sub 9]
Mechanical	
Housing	Metal Enclosure
Color	Front panel: Silver Rear case: Black
Dimensions	L: 440mm / 17.32in W: 285mm / 11.22in H: 44.5mm / 1.75in
Weight	3.45kg / 7.60lbs
Power Supply	Input: AC 100~240V 50/60Hz Output: DC 12V/2.5A (US/EU standard, CE/FCC/UL certified)
Power Consumption	23.4W (MAX)

Specifications

Mechanical		
Operating Temperature	32 - 104°F / 0 - 40°C	
Storage Temperature	-4 - 140°F / -20 - 60°C	
Operating Humidity	20%~80% (Relative Humidity, non-condensing)	
Storage Humidity	10%~90% (Relative Humidity, non-condensing)	
Video Resolution	4K30	1080P60
HDMI Cable Length (HDMI IN / OUT)	10m/33ft	15m/50ft
The use of "Premium High Speed HDMI" cable is highly recommended.		

Operation Controls and Functions

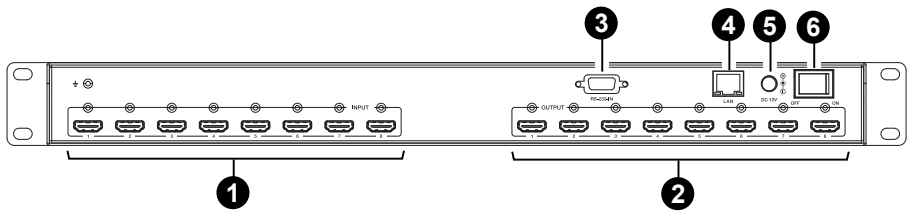
Front Panel



No.	Name	Function Description
1.	LCD screen	The software version and IP address of the matrix is displayed on the screen after powering on. Information such as the current input/output channel mapping, and EDID can be displayed by pressing front panel buttons.
2.	INPUT/ OUTPUT (1-8) buttons	Input and output channel switching buttons. First, press the INPUT (1-8) button to select the input channel, the corresponding input button light in green and the channel number will be displayed on the LCD screen. Then press the OUTPUT (1-8) button to select one or multiple output channels to send the input to that channel.
3.	CONTROL buttons	UP: Press the UP button to select the previous item. DOWN: Press the DOWN button to select the next item. EDID: Used to set the EDID mode of the input channel. Press the EDID button to enter EDID setting mode, and press the INPUT (1-8) button to select the input channel, then press the UP/DOWN button to select the desired EDID. Finally, press the ENTER button to confirm and save the settings. Pressing the EDID button twice can return to the home page. ENTER: Used to confirm and save EDID settings. SAVE: Used to save the preset scene. Up to 8 scenes can be saved. Press buttons "SAVE+OUTPUT n" to save the current routing scene as scene n (n=1~8). RECALL: Used to recall the saved scene. Press buttons "RECALL+OUTPUT n" to recall routing scene n (n=1~8) as the current routing.
4.	IR window	IR signal receiving window.

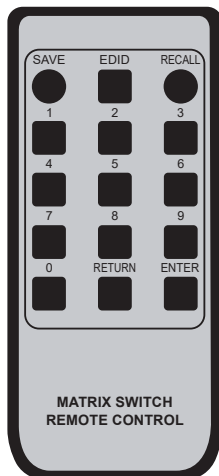
Operation Controls and Functions

Rear Panel



No.	Name	Function Description
1.	INPUT 1~8 ports	Connect a media device such as a DVD Player, set-top box, etc.
2.	OUTPUT 1~8 ports	Connect a display device such as a TV, Monitor, etc.
3.	RS-232-IN	Control the device through a laptop or PC using RS-232 commands.
4.	LAN port	Control the device through a laptop or PC using the WebGUI while connected to the network or directly to the computer.
5.	DC 12V	Connect the included power adapter
6.	Power switch	Turn on/off the matrix.

Remote



SAVE:

Press this button to save the scene.

EDID:

Press this button to switch the EDID.

RECALL:

Press this button to recall the saved scene.

1/2/3/4/5/6/7/8:

The numbers 1-8 are equivalent to the number buttons on the front panel, but the difference is that the number buttons on the IR remote have a very strong logical sequence. In the "stateless mode", pressing the number button 1 will enter the "INPUT" mode, and then pressing the number button n again will select OUTPUT n (n=1~8).

In different modes, the number buttons 1~8 represent different functions, but the logic is the same as the 1~8 number buttons on the front panel.

9:

The function of the 9 button is the same as the DOWN button on the front panel.

0:

The function of the 0 button is the same as the UP button on the front panel.

RETURN:

Press this button to return to the main menu.

ENTER:

Press this button to confirm the EDID switching.

EDID Management

This matrix has 12 factory defined EDID settings, 2 user-defined EDID modes and 8 copy EDID modes. You can select defined EDID mode or copy EDID mode through the front panel buttons, RS-232 command or Web GUI.

On-panel button operation: On the initial LCD display screen, press the EDID button to enter EDID setting mode, and press the INPUT (1~8) button to select the input channel, then press the UP/DOWN button to select the desired EDID. Finally, press the ENTER button to confirm and save the settings.

RS-232 control operation: Connect the Matrix to a PC with a serial cable, then open a Serial Command tool on PC to send ASCII command “set input x edid y” to set EDID. For full list of RS-232 commands, please refer to Page 21.

Web GUI Operation: You can change the EDID settings on the “Input” page of the Web GUI. For more details, please refer to Page 13.

The screenshot shows the 'Input Setting' page of the HDMI Matrix Web GUI. The page has a dark sidebar with navigation links: Status, Matrix, Input, Output, Network, and System. The main content area is titled '8x8 HDMI Matrix' and includes user controls for Admin, Log out, and Power on. Below the title is the 'Input Setting' section, which contains a table with columns: Inputs, Active, Name, and EDID. The table lists 8 inputs, each with an 'Active' status (indicated by a radio button), a 'Name' (input1 through input8), and an 'EDID' (1080p Stereo Audio 2.0). Below the table are two sections: 'Load EDID to user memory' and 'Download EDID to your computer'. The 'Load EDID to user memory' section has a 'Select EDID File' dropdown (set to 'Browse'), a 'Select Destination' dropdown (set to 'User Defined'), and an 'Upload' button. The 'Download EDID to your computer' section has a 'Select EDID File' dropdown (set to 'HDMI IN1') and a 'Download' button.

Inputs	Active	Name	EDID
HDMI 1	☐	input1	1080p Stereo Audio 2.0
HDMI 2	☐	input2	1080p Stereo Audio 2.0
HDMI 3	☐	input3	1080p Stereo Audio 2.0
HDMI 4	☐	input4	1080p Stereo Audio 2.0
HDMI 5	☐	input5	1080p Stereo Audio 2.0
HDMI 6	☐	input6	1080p Stereo Audio 2.0
HDMI 7	☐	input7	1080p Stereo Audio 2.0
HDMI 8	☐	input8	1080p Stereo Audio 2.0

Load EDID to user memory

Select EDID File: Select Destination:

Download EDID to your computer

Select EDID File:

EDID Management

The defined EDID setting list of the product is shown as below:

No.	EDID Mode	No.	EDID Mode
1	1080p Stereo Audio 2.0	12	4K2K30_444 HD Audio 7.1
2	1080p Dolby/DTS 5.1	13	Copy HDMI Out 1
3	1080p HD Audio 7.1	14	Copy HDMI Out 2
4	1080i Stereo Audio 2.0	15	Copy HDMI Out 3
5	1080i Dolby/DTS 5.1	16	Copy HDMI Out 4
6	1080i HD Audio 7.1	17	Copy HDMI Out 5
7	1080p 3D Stereo Audio 2.0	18	Copy HDMI Out 6
8	1080p 3D Dolby/DTS 5.1	19	Copy HDMI Out 7
9	1080p 3D HD Audio 7.1	20	Copy HDMI Out 8
10	4K2K30_444 Stereo Audio 2.0	21	User Defined 1
11	4K2K30_444 Dolby/DTS 5.1	22	User Defined 2

Note: When copying a certain output EDID, but the selected output channel is not connected to a display, the product will not update the EDID and will continue to use the previous EDID.

Web GUI User Guide

The Matrix can be controlled by Web GUI. The operation method is shown as below:

Step 1: Get the current IP Address of the product.

The default IP address of the Matrix is 192.168.0.100. You can get the current IP address via a RS-232 command. Send the ASCII command “**get ip addr**” through a serial command tool, then you’ll get the current IP address of the matrix.

Step 2: Connect the LAN port of the matrix to a PC or Laptop with a LAN cable, and set the IP address of the PC or Laptop to be in the same network segment with the matrix. The default IP of the matrix is 192.168.0.100 so you can change the laptop IP to 192.168.0.120.



Step 3:

Enter the current IP address of Matrix into your browser to enter the Web-GUI.

Web GUI User Guide



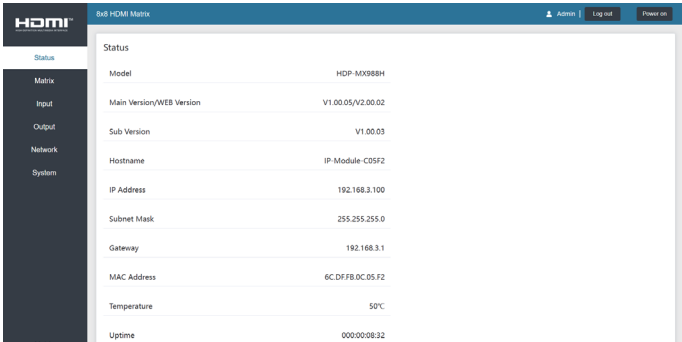
Select the username and the desired language, then enter the password. The default passwords are as follows.

Username	Password
Admin	1234
User	1234

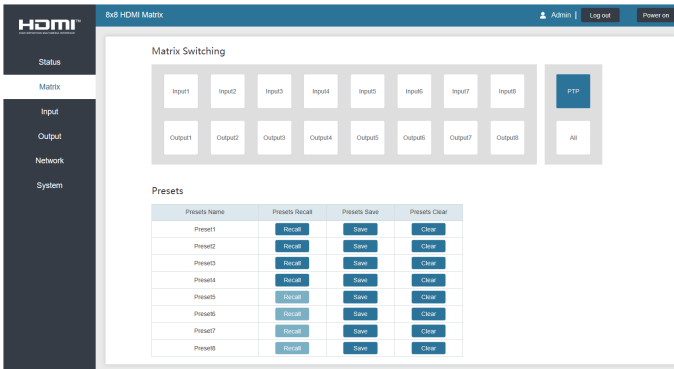
After entering the password, click the “LOGIN” button to enter the Web GUI.

■ Status Page

The Status page provides basic information about the matrix, such as model, firmware version, hostname, network configuration, temperature and up-time.



■ Matrix Page



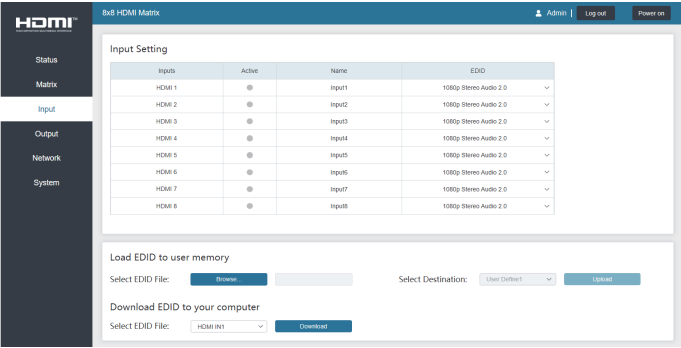
On the Matrix page, you can set Matrix switching, and save/recall/clear preset scenes as required, supporting up to 8 presets.

① **Matrix Switching:** Select the Input channel and then select the Output channel(s) to which you wish to route that input channel. Press the “All” button instead if you wish to send the selected Input to all Outputs. When in “PTP” mode, you can do regular point to point matrix switching.

② **Presets:** The Matrix supports 8 scene presets by default, and users can save, recall and clear scenes as required. The scene name can be modified, with a maximum length of 32 English characters (supporting numbers and special characters).

Web GUI User Guide

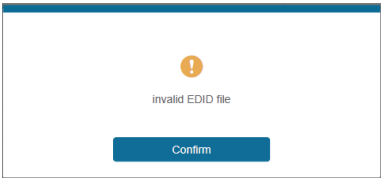
■ Input Page



You can do the following operations on the Input page:

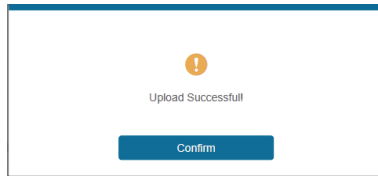
- ① **Inputs:** Input channel of the matrix.
- ② **Active:** Indicates whether the channel is connected to an active media source or not. Green indicates active signal and Gray indicates no signal.
- ③ **Name:** The input channel's name. You can modify it by entering the corresponding name in the input box. The maximum length of the name is 32 English characters (numbers and special characters are supported).
- ④ **EDID:** You can set the current channel's EDID. Click drop-down list to select the desired EDID setting.
- ⑤ **Load EDID to user memory:** Set a user defined EDID by uploading a file.

Click the “Browse” button, then select the bin file. If you select the wrong EDID file, there will be a prompt, as shown in the following figure:



Make sure to select the correct file, then you can check the name of the selected file. Then select destination “User Define1/User Define2”, and click “Upload”.

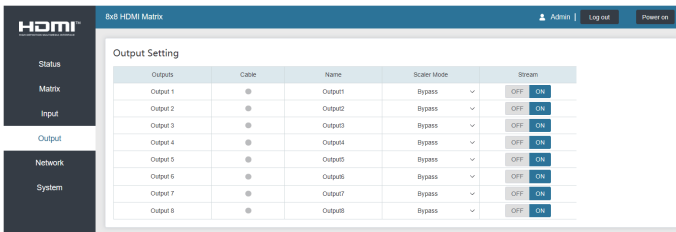
After successful setting, it will prompt as follows:



⑥ Download EDID to your computer:

Click the drop-down box of “Select EDID File” to select the corresponding input channel. Then click “Download” to download the corresponding EDID file.

■ Output Page



You can do the following operations on the Output page:

- ① **Outputs:** Output channel of the device.
- ② **Cable:** Indicates the connection status of output ports. When the output port is connected to a display, it shows Green, otherwise, it shows Gray.

Web GUI User Guide

- ③ **Name:** The output channel's name. You can modify it by entering the corresponding name in the input box. The maximum length of the name is 32 English characters (numbers and special characters are supported)
- ④ **Video Scaler:** Select a setting for the scaler to get the desired video output.

There are three options to be selected:

- **Bypass (Default):** Output resolution same as the input source.
- **4K -> 1080P:** Downscale 4K signal to 1080P.
- **Auto:** Output resolution according to the EDID of the corresponding display.

- ⑤ **Stream:** Turn on/off the signal output of the specific port.

■ Network Page

The screenshot displays the 'Web GUI' interface for an 'HDMI Matrix' device. The top navigation bar includes the 'HDMI' logo, the device name '8x8 HDMI Matrix', and user controls for 'Admin', 'Logout', and 'Power on'. A left sidebar contains menu items: 'Status', 'Matrix', 'Input', 'Output', 'Network' (highlighted), and 'System'. The main content area is divided into two sections: 'IP Setting' and 'Web Login Setting'. The 'IP Setting' section has tabs for 'Static' (selected) and 'DHCP'. It includes input fields for 'IP Address' (192.168.0.100), 'Gateway' (192.168.0.1), 'Subnet' (255.255.0.0), and 'TCP Port' (8080). The 'Web Login Setting' section has tabs for 'User' (selected) and 'Admin'. It includes fields for 'Username', 'Old Password', 'New Password', 'Confirm Password', and 'Product Model' (HQP-MAX808H1). At the bottom of this section are buttons for 'Get Network Configs' and 'Save'.

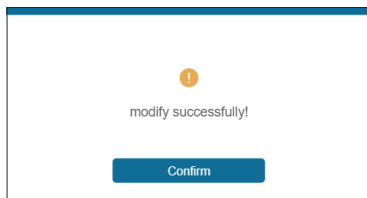
You can do the following operations on the Network page:

① **Modify Network Setting:**

You can set the IP Mode (Static/DHCP). If the mode is set to “Static”, you can manually set the IP Address, Gateway, Subnet, Telnet Port and TCP Port as required. If the mode is set to “DHCP”, the system will search and fill the IP Address with the one assigned by the network automatically.

② **Modify User Password:**

You can modify the Web login password for the User/Admin account. Enter the correct Old Password, New Password, and Confirm Password, then click “Save”. After successful modification, there will be a prompt, as shown in the following figure:

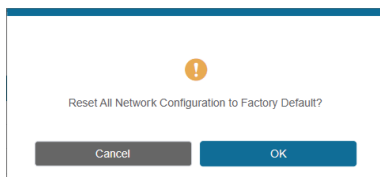


Note: Rules for changing passwords:

- (1) The password can't be empty.
- (2) New Password can't be the same as Old Password.
- (3) New Password and Confirm Password must be the same.

③ **Set Network Defaults:**

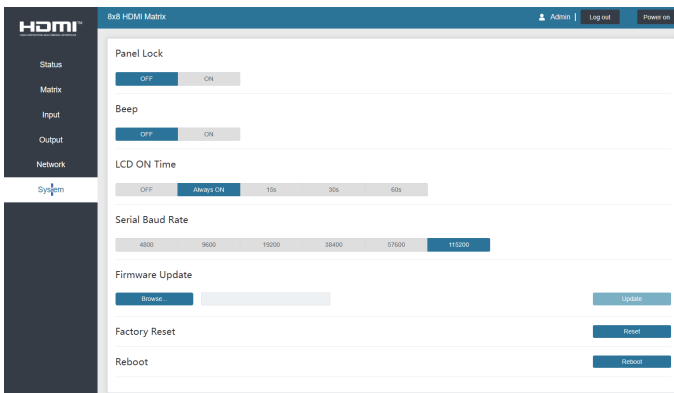
Click “Set Network Defaults”, there will be a prompt as shown in the following figure:



Web GUI User Guide

Click “OK” to search the IP Address again. After searching is completed, it will switch to the login page, the default network setting is completed.

■ System Page



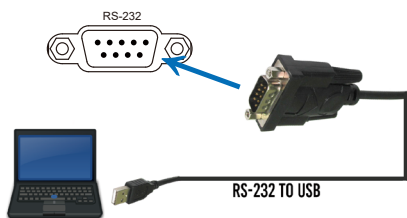
You can do the following operations on the System page:

- ① **Panel Lock:** Click “ON/OFF” to lock/unlock the panel buttons. “ON” indicates that the panel buttons are unavailable; “OFF” indicates panel buttons are available.
- ② **Beep:** Turn on/off the beep.
- ③ **LCD On Time:** You can turn on/off the LCD, and set the display duration time (Always ON/15s/30s/60s).
- ④ **Serial Baud Rate:** Click one of the given values to set the Serial Baud Rate.
- ⑤ **Firmware Update:** Click “Browse” to select the update file, and then click “Update” to complete the firmware update.
- ⑥ **Factory Reset:** Reset the unit to factory defaults.
- ⑦ **Reboot:** Reboot the unit.

Note: After reset/reboot, you will be redirected to the login page.

RS-232 Control Commands

The product also supports RS-232 control. You need a serial cable with RS-232 male head and DB9 transfer USB male head. The RS-232 head of the serial cable is connected to the RS-232 control port with DB9 at the rear of the Matrix, and the USB head of the serial cable is connected to a PC. The connection method is as follows:



Then open a Serial Command tool on PC to send ASCII commands to control the product. The ASCII command list about the product is shown as below.

ASCII Commands				
RS-232 baud rate: 115200 Data bits: 8 Stop bits: 1 Parity bit: none TCP/IP port: 8000 The end mark of command is "<CR><LF>"				
x,y,z, XXX are parameters				
Command Code	Function Description	Example	Feedback	Default
System Setting				
?	List all commands	?	The list of all commands	List all commands
help!	List all commands	help	The list of all commands	List all commands
get model	Get device model	get model	HDP-MX988H	HDP-MX988H
status!	Get device current status	status	Please refer to the note for "status".	
get version	Get firmware version	get version	MAIN MCU V1.00.01 SUB MCU V1.00.01 WEB V1.00.01	

RS-232

Control Commands

Command Code	Function Description	Example	Feedback	Default
System Setting				
power on	Power on the device	power on	Power on System Initializing... Initialization Finished! MAIN MCU V1.00.01 SUB MCU V1.00.01 WEB V1.00.01	
power off	Power off the device	power off	Power off	
get power	Get current power state	get power	Power on / Power off	
reboot	Reboot the device	reboot	Reboot... System Initializing... Initialization Finished! MAIN MCU V1.00.01 SUB MCU V1.00.01 WEB V1.00.01	
reset	Reset system settings to default (Should type "Yes" to confirm, "No" to discard)	reset	Sure to reset system settings to default? Type "Yes" after next prompt to confirm...	
reset all	Reset system and network settings to default (Should type "Yes" to confirm, "No" to discard)	reset all	Sure to reset system and network settings to default? Type "Yes" after next prompt to confirm...	
set front button x	Set front button locked on/off (x=0~1) x=0: Unlocked x=1: Locked	set front button 0	Set front button unlocked	0
get front button	Get front button locked on/off status	get front button	Unlocked	
set beep x	Set buzzer on/off (x=0~1) x=0: Off x=1: On	set beep 0	Set beep off	1
get beep	Get buzzer on/off status	get beep	Off	
get temp	Get device internal temperature	get temp	65C	
get uptime	Get device running time (Day:Hour:Min:Sec)	get uptime	000:00:13:04	
set id x	Set the control ID of the product, x=000-999	set id 888	Set id 888	NO ID

RS-232

Control Commands

Command Code	Function Description	Example	Feedback	Default
System Setting				
get id	Get the control ID of the product	get id	888	
set lcd logo x to y	Set the x sentence displayed on the LCD to y during power-on x=1:LCD line 1 x=2:LCD line 2 y=[16 characters max]	set lcd logo 1 to HDP-MX988H	Set lcd logo 1 to HDP-MX988H	LCD line 1: Initializing... LCD line 2:
get lcd logo x	Get the x sentence displayed on the LCD during power-on x=0:LCD line 1-2 x=1:LCD line 1 x=2:LCD line 2	get lcd logo 1	LCD line:HDP-MX988H	
Input Setting				
set input x edid y	Set input (x=0-8) EDID (y=1-22) x=0: All Inputs x=1-8: HDMI 1~HDMI 8 y=1: 1080p Stereo Audio 2.0 y=2: 1080p Dolby/DTS 5.1 y=3: 1080p HD Audio 7.1 y=4: 1080i Stereo Audio 2.0 y=5: 1080i Dolby/DTS 5.1 y=6: 1080i HD Audio 7.1 y=7: 1080p 3D Stereo Audio 2.0 y=8: 1080p 3D Dolby/DTS 5.1 y=9: 1080p 3D HD Audio 7.1 y=10: 4K2K30_444 Stereo Audio 2.0 y=11: 4K2K30_444 Dolby/DTS 5.1 y=12: 4K2K30_444 HD Audio 7.1 y=13: Copy HDMI Out 1 y=14: Copy HDMI Out 2 y=15: Copy HDMI Out 3 y=16: Copy HDMI Out 4 y=17: Copy HDMI Out 5 y=18: Copy HDMI Out 6 y=19: Copy HDMI Out 7 y=20: Copy HDMI Out 8 y=21: User Defined 1 y=22: User Defined 2	set input 0 edid 1	Set HDMI 1 EDID 1080p stereo audio 2.0 Set HDMI 2 EDID 1080p stereo audio 2.0 Set HDMI 3 EDID 1080p stereo audio 2.0 Set HDMI 4 EDID 1080p stereo audio 2.0 Set HDMI 5 EDID 1080p stereo audio 2.0 Set HDMI 6 EDID 1080p stereo audio 2.0 Set HDMI 7 EDID 1080p stereo audio 2.0 Set HDMI 8 EDID 1080p stereo audio 2.0	

Command Code	Function Description	Example	Feedback	Default
Input Setting				
get input x edid	Get input (x=0-8) EDID mode x=0: All Inputs x=1: HDMI 1 x=2: HDMI 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5 x=6: HDMI 6 x=7: HDMI 7 x=8: HDMI 8	get input 0 edid	HDMI 1 EDID 1080p stereo audio 2.0 HDMI 2 EDID 4K2K30_ 444 HD audio 7.1 HDMI 3 EDID 4K2K60_ 444 dolby/DTS 5.1 HDMI 4 EDID copy HDMI out 1 HDMI 5 EDID 1080p stereo audio 2.0 HDMI 6 EDID 4K2K30_ 444 HD audio 7.1 HDMI 7 EDID 4K2K60_ 444 dolby/DTS 5.1 HDMI 8 EDID copy HDMI out 1	
set user edid x <y>	Set user defined EDID (x=1-2) x=1: User Defined 1 x=2: User Defined 2 y = 00 FF FF FF (y is 256 bytes EDID data)	set user edid 1 <00 FF FF FF....>	User defined 1 EDID is loaded successfully	
get edid data x	Get EDID data (x=1-18) x=01: HDMI 1 x=02: HDMI 2 x=03: HDMI 3 x=04: HDMI 4 x=05: HDMI 5 x=06: HDMI 6 x=07: HDMI 7 x=08: HDMI 8 x=09: HDMI out 1 x=10: HDMI out 2 x=11: HDMI out 3 x=12: HDMI out 4 x=13: HDMI out 5 x=14: HDMI out 6 x=15: HDMI out 7 x=16: HDMI out 8 x=17: User Defined 1 x=18: User Defined 2	get edid data 1	HDMI 1 EDID data <00 FF FF FF....>	

RS-232

Control Commands

Command Code	Function Description	Example	Feedback	Default
Input Setting				
set input x hdcp y	Set input (x=0-8) HDCP on/off x=0: All Inputs x=1: HDMI 1 x=2: HDMI 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5 x=6: HDMI 6 x=7: HDMI 7 x=8: HDMI 8 y=0: Off y=1: On	set input 0 hdcp 1	Set Input HDMI 1 HDCP on Set Input HDMI 2 HDCP on Set Input HDMI 3 HDCP on Set Input HDMI 4 HDCP on Set Input HDMI 5 HDCP on Set Input HDMI 6 HDCP on Set Input HDMI 7 HDCP on Set Input HDMI 8 HDCP on	1
get input x hdcp	Get input (x=0-8) HDCP on/off status x=0: All Inputs x=1: HDMI 1 x=2: HDMI 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5 x=6: HDMI 6 x=7: HDMI 7 x=8: HDMI 8	get input 0 hdcp	Input HDMI 1 HDCP on Input HDMI 2 HDCP on Input HDMI 3 HDCP on Input HDMI 4 HDCP on Input HDMI 5 HDCP on Input HDMI 6 HDCP on Input HDMI 7 HDCP on Input HDMI 8 HDCP on	
Output Setting				
set output x hdcp y	Set output (x=0-8) hdcp mode (y=1-3) x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8 y=0: Reserved y=1: Auto(Follow Sink) y=2: HDCP 1.4 y=3: HDCP 2.2	set output 0 hdcp 1	Set HDMI out 1 HDCP auto Set HDMI out 2 HDCP auto Set HDMI out 3 HDCP auto Set HDMI out 4 HDCP auto Set HDMI out 5 HDCP auto Set HDMI out 6 HDCP auto Set HDMI out 7 HDCP auto Set HDMI out 8 HDCP auto	1

Command Code	Function Description	Example	Feedback	Default
Output Setting				
get output x hdcp	Get output (x=0-8) hdcp mode x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8	get output 0 hdcp	HDMI out 1 HDCP auto HDMI out 2 HDCP auto HDMI out 3 HDCP auto HDMI out 4 HDCP auto HDMI out 5 HDCP auto HDMI out 6 HDCP auto HDMI out 7 HDCP auto HDMI out 8 HDCP auto	
set output x enable y	Set output (x=0-8) enable on/off x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8 y=0: Off y=1: On	set output 0 enable 1	Set HDMI out 1 enable on Set HDMI out 2 enable on Set HDMI out 3 enable on Set HDMI out 4 enable on Set HDMI out 5 enable on Set HDMI out 6 enable on Set HDMI out 7 enable on Set HDMI out 8 enable on	1
get output x enable	Get output (x=0-8) enable on/off status x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8	get output 0 enable	HDMI out 1 enable on HDMI out 2 enable on HDMI out 3 enable on HDMI out 4 enable on HDMI out 5 enable on HDMI out 6 enable on HDMI out 7 enable on HDMI out 8 enable on	

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Control Commands

Command Code	Function Description	Example	Feedback	Default
Output Setting				
set output x avmute y	Set output (x=0-8) avmute on/off x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8 y=0: Off y=1: On	set output 0 avmute 1	Set HDMI out 1 avmute on Set HDMI out 2 avmute on Set HDMI out 3 avmute on Set HDMI out 4 avmute on Set HDMI out 5 avmute on Set HDMI out 6 avmute on Set HDMI out 7 avmute on Set HDMI out 8 avmute on	1
get output x avmute	Get output (x=0-8) avmute on/off status x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8	get output 0 avmute	HDMI out 1 avmute on HDMI out 2 avmute on HDMI out 3 avmute on HDMI out 4 avmute on HDMI out 5 avmute on HDMI out 6 avmute on HDMI out 7 avmute on HDMI out 8 avmute on	
set output x scaler y	Set output (x=0-8) scaler mode x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8 y=0: Bypass y=1: 4K->1080P y=2: Auto	set output 0 scaler 0	Set HDMI out 1 scaler Bypass Set HDMI out 2 scaler Bypass Set HDMI out 3 scaler Bypass Set HDMI out 4 scaler Bypass Set HDMI out 5 scaler Bypass Set HDMI out 6 scaler Bypass Set HDMI out 7 scaler Bypass Set HDMI out 8 scaler Bypass	

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Control Commands

Command Code	Function Description	Example	Feedback	Default
Output Setting				
get output x scaler	Get output (x=0-8) scaler mode status x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8	get output 0 scaler	HDMI out 1 scaler Bypass HDMI out 2 scaler Bypass HDMI out 3 scaler Bypass HDMI out 4 scaler Bypass HDMI out 5 scaler Bypass HDMI out 6 scaler Bypass HDMI out 7 scaler Bypass HDMI out 8 scaler Bypass	
Matrix Setting				
set input x to y set input x to y1 y2 y3 y4...	Set input (x =1-8) to output (y=0-8) x=1: HDMI 1 x=2: HDMI 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5 x=6: HDMI 6 x=7: HDMI 7 x=8: HDMI 8 y=0: All HDMI Outputs y=1: HDMI Out 1 y=2: HDMI Out 2 y=3: HDMI Out 3 y=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8	set input 2 to 1 2	Set HDMI out 1 video source HDMI 2 Set HDMI out 2 video source HDMI 2	1
get output x source	Get output (x=0-8) source x=0: All HDMI Outputs x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDMI Out 3 x=4: HDMI Out 4 x=5: HDMI Out 5 x=6: HDMI Out 6 x=7: HDMI Out 7 x=8: HDMI Out 8	get output 1 source	HDMI out 1 video source HDMI 1	

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Control Commands

Command Code	Function Description	Example	Feedback	Default
RS-232 Setting				
set serial setting x	Set serial port setting to x x= 115200-8n1 Baud rate: 115200/57600/38400/ 19200/9600/4800 Data bits: 7/8 Parity: n(None)/ o(Odd) /e(Even) Stop bits: 1/2	set serial setting 115200-8n	Set RS-232 115200-8n1	115200-8n1
get serial setting	Get serial port setting	get serial setting	RS-232 115200-8n1	
Preset Setting				
set preset save x	Save the current unit's settings to the specified preset (x=1~8) Only video switching state x=1~8: Preset 1 ~ Preset 8	set preset save 1	Set preset 1 save	
set preset recall x	Recall a specified preset into unit (x=1~8) Only video switching state x=1~8: Preset 1 ~ Preset 8	set preset recall 1	Set preset 1 recall	
set preset clear x	Clear a specified preset into unit (x=1~8) Only video switching state x=1~8: Preset 1 ~ Preset 8	set preset clear 1	Set preset 1 clear	
Network Setting				
get ipconfig	Get the current IP configuration	get ipconfig	IP Mode: DHCP IP: 192.168.62.106 Subnet Mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)	default static IP is 192.168.0.100/ 255.255.0.0/ 192.168.0.1

Command Code	Function Description	Example	Feedback	Default
Network Setting				
get mac addr	Get network MAC address	get mac addr	MAC: 6C:DF:FB:0C:B3:8E	
set ip mode x	Set network IP mode to static IP or DHCP (x=0-1) x=0: Static x=1: DHCP	set ip mode 0	Set IP mode static (Please use "set net reboot" command to apply new config!)	1
get ip mode	Get network IP mode	get ip mode	DHCP	
set ip addr xxx.xxx.xxx	Set network IP address	set ip addr 192.168.1.100	Set IP address 192.168.1.100 (Please use "set net reboot" command to apply new config!) DHCP on, Device can't config static address, set DHCP off first.	
get ip addr	Get network IP address	get ip addr	192.168.62.106	
set subnet xxx.xxx.xxx	Set network subnet mask	set subnet 255.255.255.0	Set subnet mask 255.255.255.0 (Please use "set net reboot" command to apply new config!) DHCP on, Device can't config subnet mask, set DHCP off first.	
get subnet	Get network subnet mask	get subnet	255.255.255.0	
set gateway xxx.xxx.xxx	Set network gateway	set gateway 192.168.1.1	Set gateway 192.168.1.1 (Please use "set net reboot" command to apply new config!) DHCP on, Device can't config gateway, set DHCP off first.	
get gateway	Get network gateway	get gateway	192.168.1.1	
set tcp/ip port x	Set network TCP/IP port (x=1-65535)	set tcp/ip port 8000	Set TCP/IP port 8000	8000
get tcp/ip port	Get network TCP/IP port	get tcp/ip port	8000	
set telnet port x	Set network telnet port (x=1-65535)	set telnet port 23	Set telnet port 23	23
get telnet port	Get network telnet port	get telnet port	23	

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Control Commands

Command Code	Function Description	Example	Feedback	Default
Network Setting				
set net host-name xxxx	Set network hostname to xxxx (x≤32)	set net hostname 1234	Set net hostname to 1234	
get net host-name	Get network hostname	get net hostname	1234	
set net reboot	Reboot network modules	set net reboot	Search for IP,Please wait ...! IP Mode: DHCP IP: 192.168.62.106 Subnet Mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)	
Password Setting				
set admin password x	Set admin login password (x=[16 characters max])	set admin password 1234	Set admin password 1234	1234
get admin password	Get admin login password	get admin password	1234	
set user password x	Set user login password (x=[16 characters max])	set user password 1234	Set user password 1234	1234
get user password	Get user login password	get user password	1234	

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Control Commands

Note: The feedback of the command of "status" is as following.

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HDP-MX988H Status Info

MAIN MCU V1.00.01 SUB MCU V1.00.01 WEB V1.00.01

Input	Cable	Resolution	ColorSpace	ColorDepth	HDCP	EDID
HDMI 1	Connected	1920x1080p60	RGB	8bit	1.4	4K2K60_444, Stereo Audio 2.0
HDMI 2	Connected	1920x1080p60	RGB	8bit	1.4	4K2K60_444, Stereo Audio 2.0
HDMI 3	Connected	3840x2160p60	RGB	8bit	2.2	4K2K60_444, Stereo Audio 2.0
HDMI 4	Connected	3840x2160p60	YUV 4:4:4	8bit	Off	User Defined 2
HDMI 5	Connected	1920x1080p60	RGB	8bit	1.4	4K2K60_444, Stereo Audio 2.0
HDMI 6	Connected	1920x1080p60	RGB	8bit	1.4	4K2K60_444, Stereo Audio 2.0
HDMI 7	Connected	3840x2160p60	RGB	8bit	2.2	4K2K60_444, Stereo Audio 2.0
HDMI 8	Connected	3840x2160p60	YUV 4:4:4	8bit	Off	User Defined 2

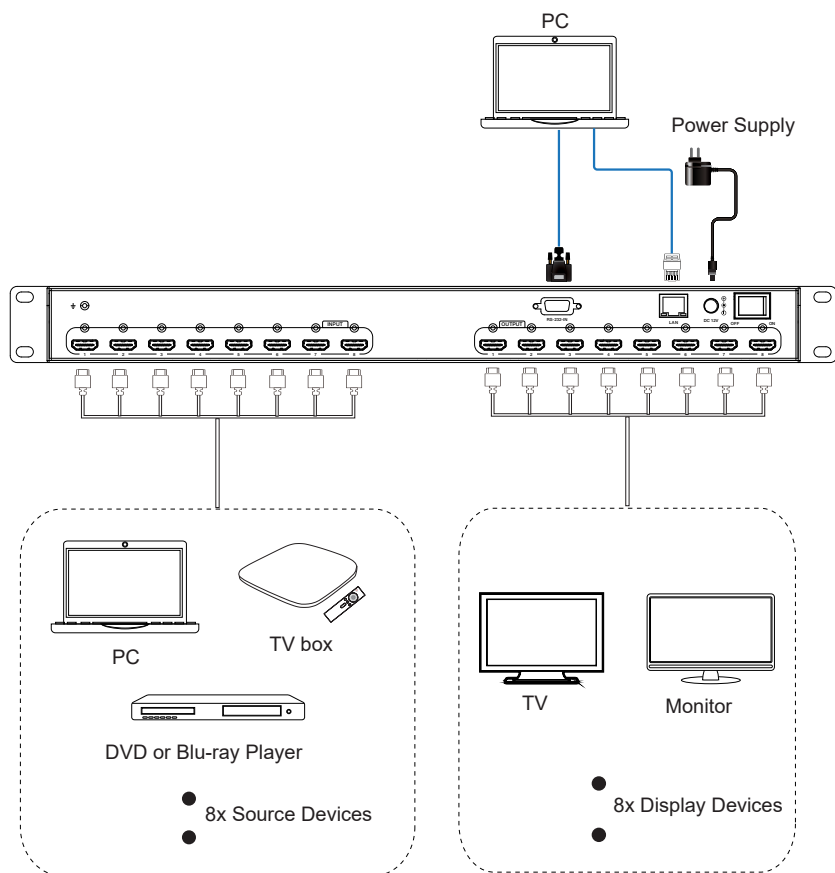
Output	Cable	Resolution	ColorSpace	ColorDepth	HDCP	AVMute	Turn_on/off	Scaler	Source
HDMI 1	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	Bypass	1
HDMI 2	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	4K->1080P	1
HDMI 3	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	Auto	1
HDMI 4	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	Auto	1
HDMI 5	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	Auto	1
HDMI 6	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	Auto	1
HDMI 7	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	Auto	1
HDMI 8	Connected	3840x2160p60Hz	RGB	8bit	2.2	Off	On	Auto	1

Power	Key	Beep	Baud	Temp(C)	Uptime (Day:Hour:Min:Sec)
On	On	Off	115200	46	000:00:13:04

TCP/IP	Telnet	MAC
8000	0023	6C:DF:FB:0C:B3:8E

DHCP	IP	Gateway	SubnetMask
On	192.168.062.111	192.168.062.001	255.255.000.000
(Static:	192.168.000.100	192.168.000.001	255.255.000.000)

Application Example



HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

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4K@30Hz 8x8 HDMI™ Matrix

HDS-808

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