OIP-N40E Bridge

User Manual - English



[Important]

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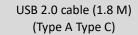
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Chapter 1 Package Contents

OIP-N40E



Locking metal plate (x2)





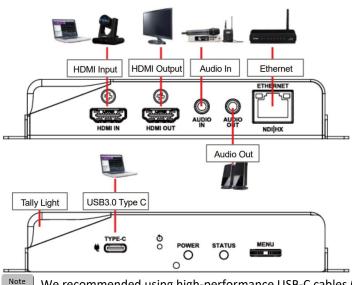


M3 metal plate screw (4x4)



Chapter 2 Product Installation

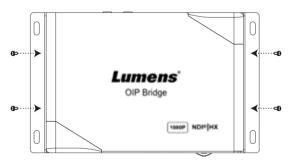
2.1 I/O Interface



Note We recommended using high-performance USB-C cables (10Gbps or higher)

2.2 Product Installation

- Using the accessory metal plates
- 1. Lock the accessory metal plate with screws (M3 x 4) to the lock holes on both sides of the OIP Bridge

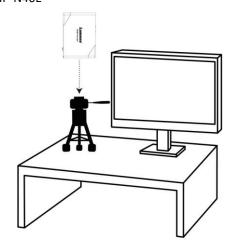


2. Screw the metal plate to the desk or other surface as required.



■ Tripod mounting

The camera can be mounted on a 1/4"-20 UNC PTZ tripod deck by using the lock holes on the side for the tripod of OIP-N40E





2.3 Description of Indicator Display

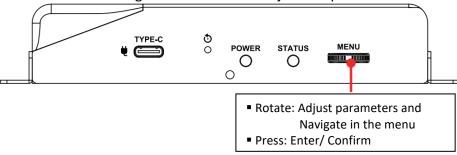
Power Status	Tally Status	Power	Standby	Tally
Startup in progress	-	Red light	-	Flickering
(initialization)				Red/Green light
	Signal	Red light	t Green light	-
la usa	No Signal			-
In use	Preview			Green light
	Program			Red light



Chapter 3 Product Operation

3.1 Operating using the rocker switch

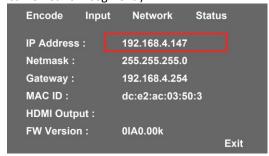
Connect the HDMI OUT to the display, press the Menu dial to enter the OSD menu. Move the rocker switch to navigate the menu and adjust the parameters



3.2 Operate via webpages

(1) Confirm the IP address

Refer to <u>3.1Using the rocker switch</u>, confirm the IP address in Status (If the OIP-N40E is directly connected to the computer, the default IP is 192.168.100.100. You need to manually set the computer's IP address in the same network segment.)



(2) Open the browser and input the IP address, e.g. 192.168.4.147, to access the login interface.



(3) Please enter the account/password to log in

Account : adminPassword : 9999



Chapter 4 Product Application and Connection

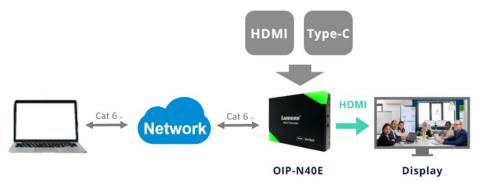
4.1 HDMI Signal Source Transmission Network

OIP-N40E converts an HDMI source for transmission over IP.

Note: When using a USB connection to the OIP, a USB 3.1 Gen2 (10Gbps) cable is required.

(1) Connection Method

- Connect the source device to the OIP-N40E HDMI or USB-C input port using a HDMI or USB-C cable
- Connect the OIP-N40E and computer to the network switch using network cables
- Connect the OIP-N40E HDMI OUT to the display using a HDMI cable
- Connect the HDMI source to the OIP-N40E HDMI IN, to capture and synchronize the signal source to the display (Pass-through)



(2) Webpage Settings

[Stream] > [Source] to select the output signal > [Stream Type] > [Apply]

(3) Streaming Output

Open streaming media platforms such as VLC, OBS, NDI Studio Monitor, etc., to receive the streaming output.

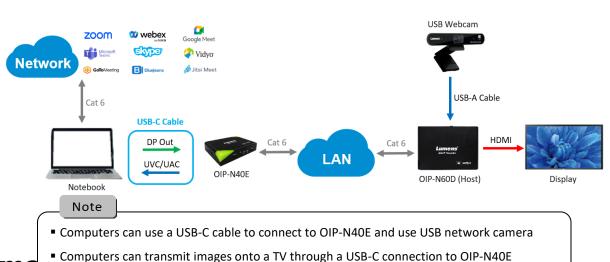
4.2 USB Network Camera Extension (OIP-N40E/OIP-N60D required)

OIP supports network bridging. Use OIP-N40E with OIP-N60D to extend the range of USB cameras over the local area network.

Note: When using a USB connection to the OIP, a USB 3.1 Gen2 (10Gbps) cable is required.

(1) Connection Method

- Connect the OIP Bridge to the local network
- Connect the USB camera to the OIP-N60D using USB-A cable
- Connect a monitor to the OIP-N60D using a HDMI cable
- Connect a computer to the OIP-N40E using a USB-C monitor transmission cable



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- (2) OIP-N60D Webpage Settings
 [System] > [Output], open USB Extender
- (3) OIP-N40E Webpage Settings
 - [System] > [Output] > Extender Source List
 - [Search new Source] > Click [Available] to select the OIP-N60D > Connection displays
 Connected
- (4) USB Camera Screen Output
 - Launch Zoom, Microsoft Teams, or your preferred video conferencing app.
 - Choose the video source, to output USB camera images

Note Source Name: Select the USB Camera ID



Chapter 5 Setting Menu

Using the rocker switch **[Menu]** enter the setting menu; the **bold underlined** values in the following table are defaults.

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions	
Encode	Stream Type	NDI HX/ RTSP / RTMP / RTMPS	Select the stream type	
Input	HDMI-in From	Auto / HDMI/ DP	Select the input source	
	IP Mode	Static/ <u>DHCP</u> / Auto	Dynamic Host Configuration	
Natural	IP Address	192.168.100.100		
Network	Subnet mask (Netmask)	<u>255.255.255.0</u>	Configurable when set to <i>Static</i>	
	Gateway	192.168.100.254		
Status	-	-	Display the current machine status	



Chapter 6 Webpage Interface

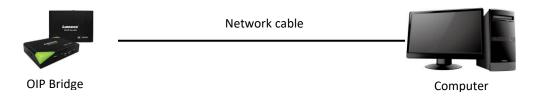
6.1 Connecting to Internet

Two common connection methods are shown below

1. Connecting via switch or router



2. To connect directly using a network cable, the IP address of the keyboard/computer should be changed and set as the same network segment.



6.2 Log into the webpage

1. Open the browser, and enter the URL of OIP-N in the IP address bar

E.g.: http://192.168.4.147

2. Enter the administrator's account and password

For a first-time login, please refer to 6.3.8 System- User to change the default password

Lumens OIP Bridge

Account: admin
Password: 9999 (Default)



6.3 Webpage Menu Description

6.3.1 Dashboard

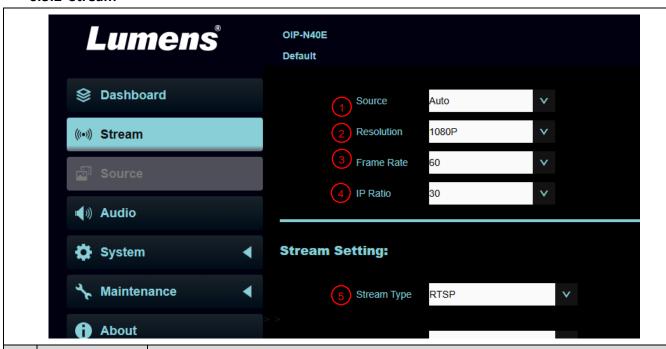


Function Descriptions

Display input, encode, virtual USB and system related information

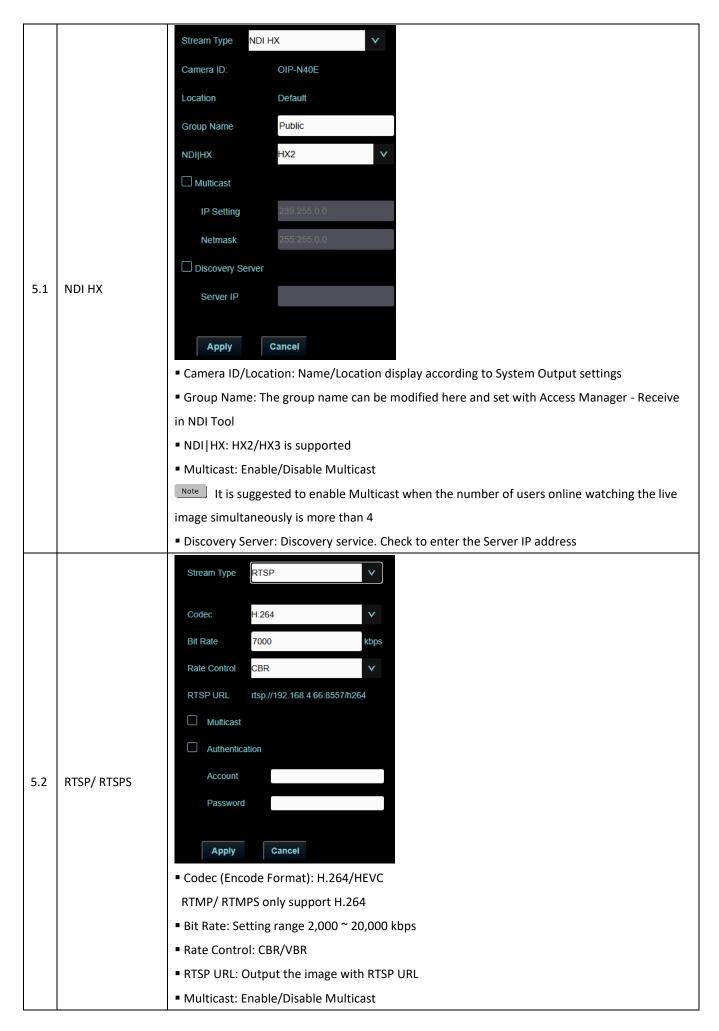
HELLO: Enable this button to make the indicator light on the unit blink for one minute. It will then automatically turn off.

6.3.2 Stream

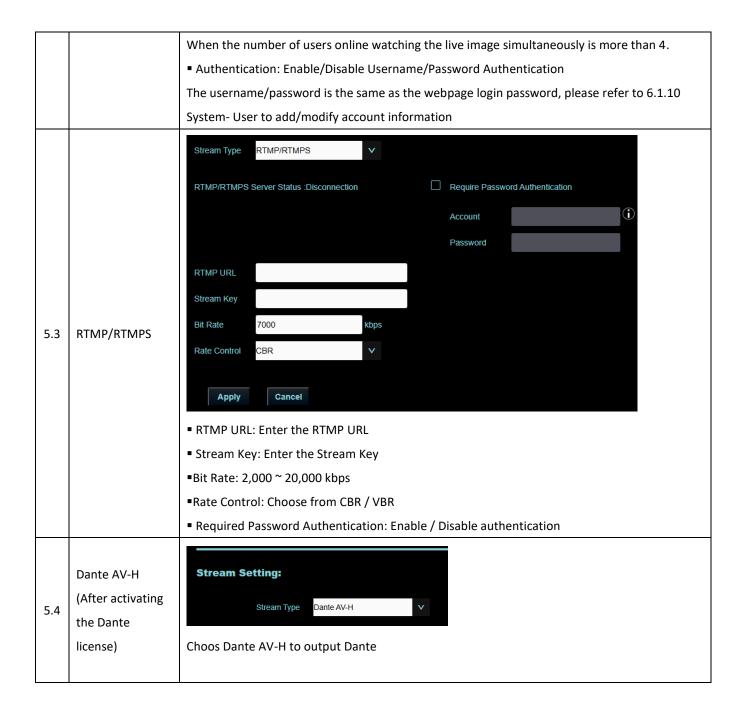


No	Item	Description
1	Source	Auto / HDMI / DP
2	Resolution	1080P / 720P
3	Frame Rate	60 / 59.94 /50 /30 / 29.97 / 25
4	IP Ratio	30
5	Stream Type	NDI HX / RTSP / RTMP / RTMPS / Dante AV-H



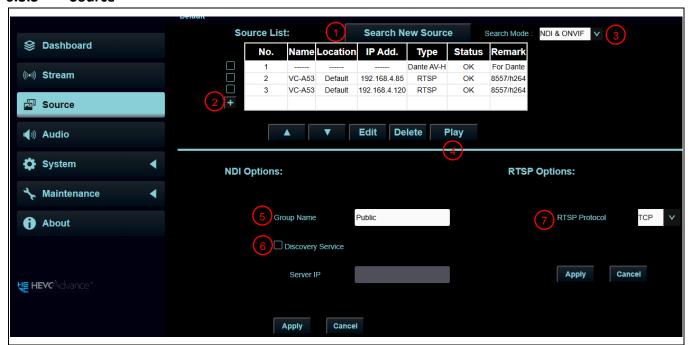








6.3.3 Source



No	Item	Description
1	Search New Source	Click to search for devices in the same network segment and display them in the list
2	+Add	Manually add a device
3	Search Mode	Search from NDI&ONVIF, only NDI, and only ONVIF
4	Play	Select a device, click to play
5	Group Name	The group name can be modified here and set with Access Manager - Receive in NDI Tool
6	Discovery Service	Discovery service. Select to enter the Server IP address
7	RTSP Options	Choose from TCP and UDP

Dante controller



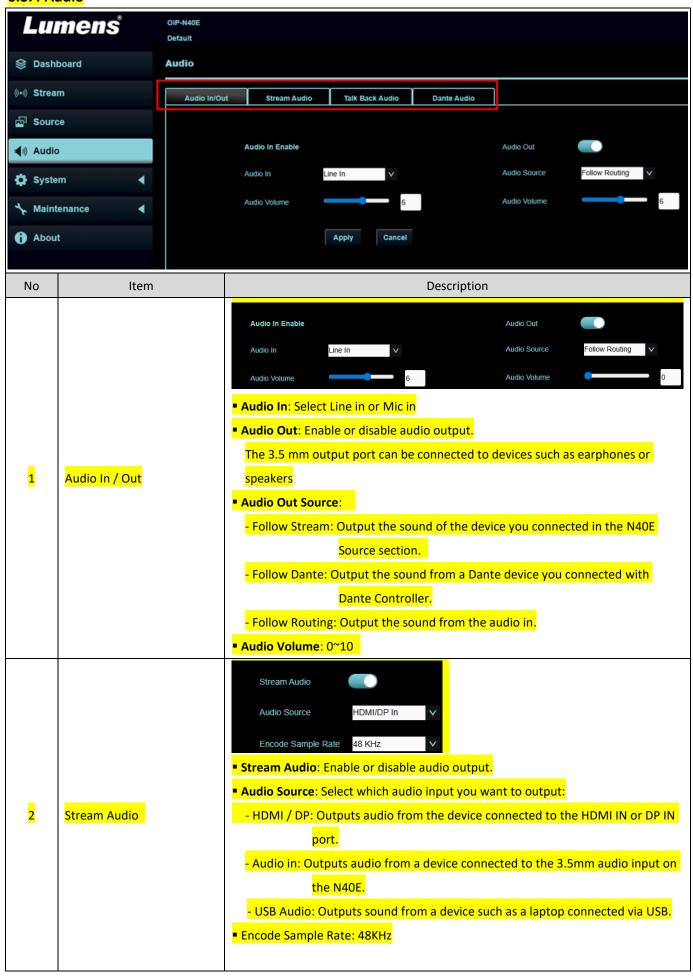
To ensure the unit OIP unit can be recognized by the Dante Controller after enabling the Dante function, please follow the steps below:

- 1. Access the unit's web page
- 2. Navigate to the [Source] section
- 3. Select [Dante AV-H] as the source
- 4. Click [Play] to activate the stream

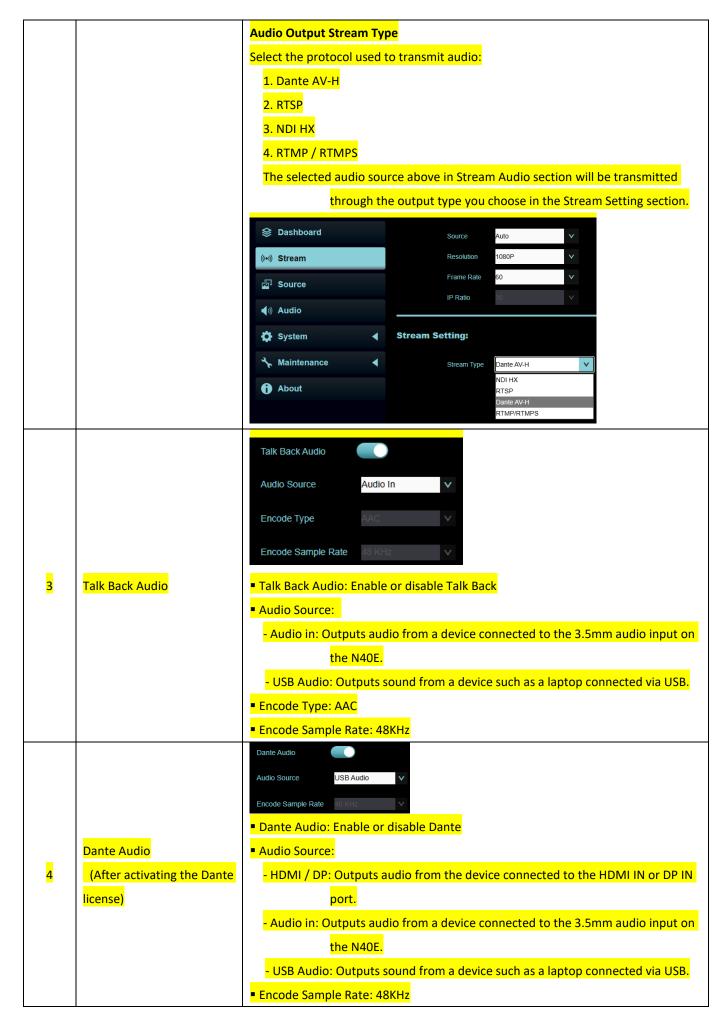
Remark: If the play button is not activated, the device will not be detected properly by the Dante Controller.



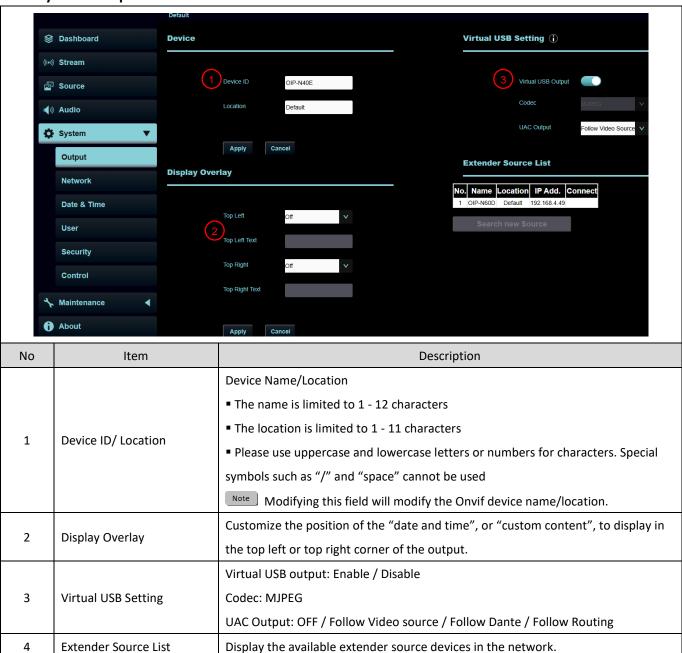
6.3.4 Audio





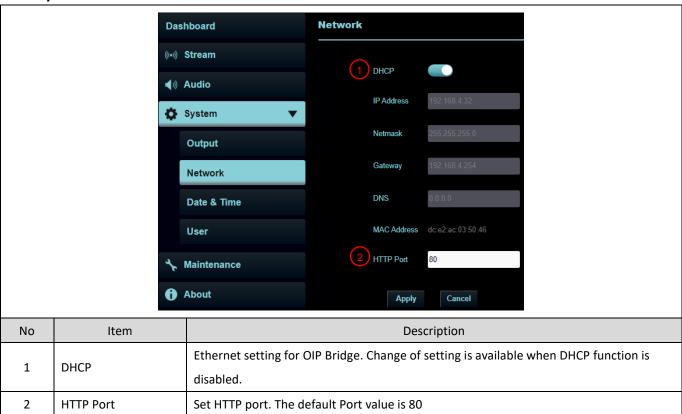


6.3.5 System- Output

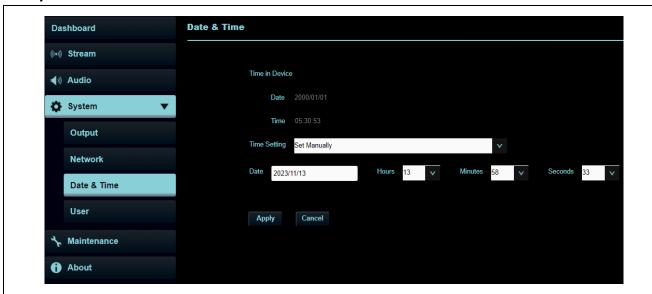




6.3.6 System- Network



6.3.7 System- Date & Time



Function Descriptions

Display the current device/computer date and time, and set the display format and synchronization method When Manually Set is selected for [Time Settings], Date & Time can be customized



6.3.8 System-User



Function Descriptions

Add/Modify/Delete user account

- Supporting 4 32 characters for user name and password
- Please use uppercase and lowercase letters or numbers for characters. Special symbols or the underlined cannot be used

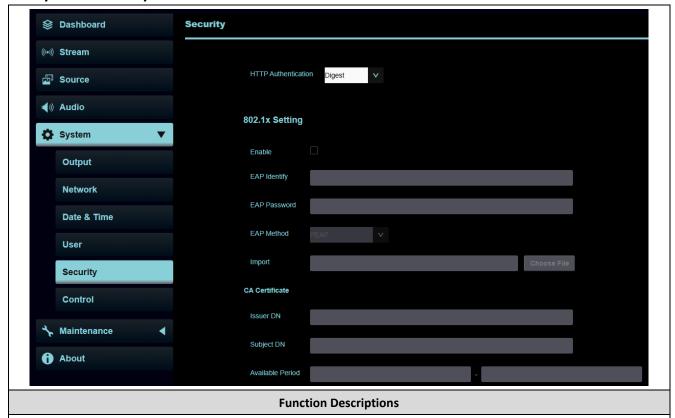
■ Authentication Mode: Set the new account management permissions

User Type	Admin	Viewer
View	v	V
Setting/Account	V	х
management		

XWhen Factory Reset is executed, it will clear the user's data



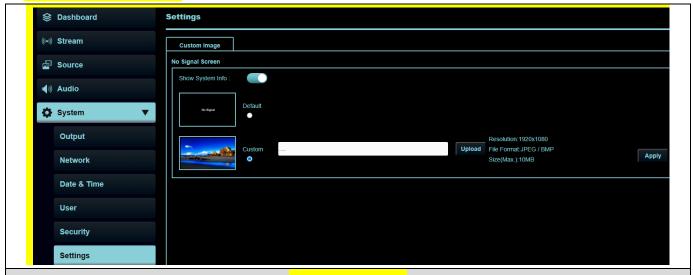
6.3.9 System - Security



HTTP Authentication: Choose from Digest / Basic / Off

802.1x Setting: Enable / Disable

6.3.10 System - Settings



Functions Description

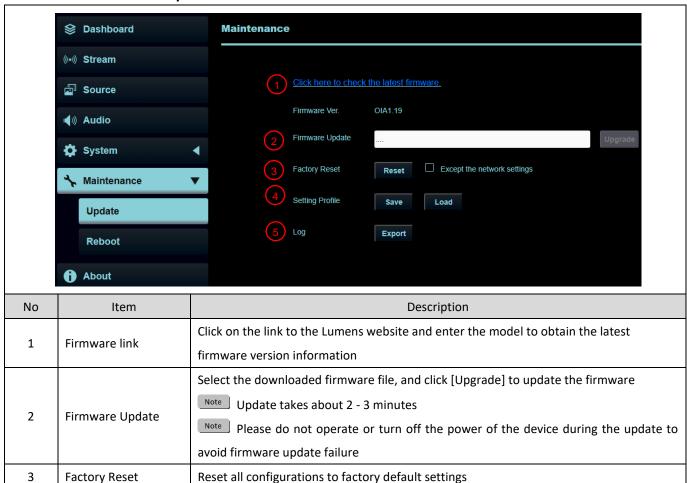
The user can upload a custom image (JPEG / BMP) to be displayed as the background when no signal is detected.

Select [...] to locate your image, then click Upload and Apply to save it.

System Information: Enable this option to display product details such as the IP address and firmware version on the monitor.



6.3.11 Maintenance - Update



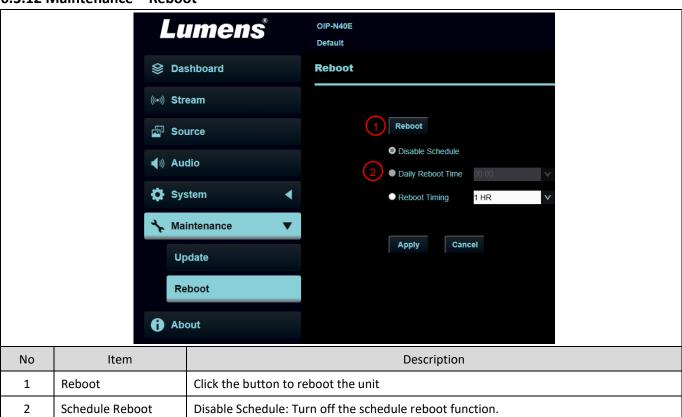
6.3.12 Maintenance - Reboot

Setting Profile

Log

4

5



Save setup parameters. Users can save and load device setup parameters

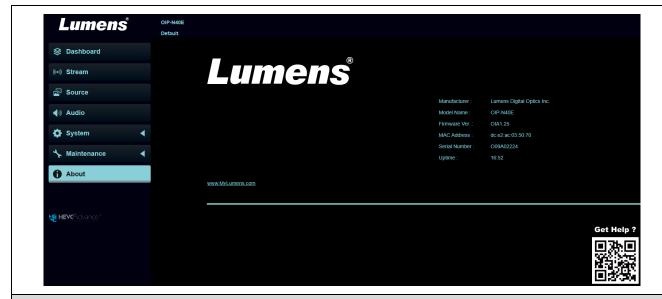
Export the log file containing the records from the recent period.



Daily Reboot Time: Set the exact time the unit will automatically reboot. (Can only be enabled when SNTP is selected in the Time Setting section.)

Reboot Timing: Set the reboot interval, from 1 to 24 hours.

6.3.13 About



Function Descriptions

Display the firmware version, serial number, and other related information of the OIP Bridge

For technical support, please scan the QR Code at the bottom right for assistance



Chapter 7 Troubleshooting

This chapter describes problems you may encounter while using OIP Bridge. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurs, please contact your distributor or the service center.

No.	Problems	Solutions	
1.	OIP-N40E cannot display the signal source screen	 Confirm that the cables are fully connected. Please refer to <u>Chapter 4, Product Application and Connection</u> Confirm that the input signal source resolution is 1080p or 720p Confirm that USB-C cables are recommended to use specifications with a transmission rate of 10Gbps or higher 	
2.	OIP-N40E webpage USB extender cannot find OIP-N60D on the same network segment	Confirm that the OIP-N60D has enabled the USB extender function Confirm that the management switch in the network has disabled the blocking of multicast packets	
3.	Recommended specifications for USB-C cables	Transfer rate of 10 Gbps or higher	
4.	Recommended Switch Configuration	When using OIP-N products with a network switch, it is recommended to configure the following settings: 1. Select a switch where every port supports 1Gbps transmission 2. Use a switch that supports QoS (Quality of Service) with 4 queues and strict priority; QoS should be enabled when both 100Mbps and 1Gbps devices exist in the same local network 4. Enable IGMP Snooping 5. It is recommended to choose a managed switch (Layer 2 or above) 6. It is advisable to disable EEE (Energy Efficient Ethernet) or similar power-saving features	



Chapter 8 Safety Instructions

Always follow these safety instructions when setting up and using the product:

1 Operation

- 1.1 Please use the product in the recommended operating environment, away from water or source of heat.
- 1.2 Do not place the product on a tilted or unstable trolley, stand or table.
- 1.3 Please clean the dust on the power plug prior to usage. Do not insert the product's power plug into a multiplug to prevent sparks or a fire.
- 1.4 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- 1.5 Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 1.6 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the product or the product has been exposed to rain or water.

2 Installation

2.1 For security considerations, please make sure the standard mount you use is in line with UL or CE safety approbations and installed by technician personnel approved by agents.

3 Storage

- 3.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 3.3 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

4.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.

5 Batteries (for products or accessories with batteries)

- 5.1 When replacing batteries, please only use similar or the same type of batteries
- 5.2 When disposing of batteries or products, please adhere to the relevant instructions in your country or region for disposing of batteries or products

■ Precautions



This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock. Do not remove the cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.



This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

■ FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are to provide reasonable protection from harmful interference in residential installations.



■ IC Warning

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe B prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.



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