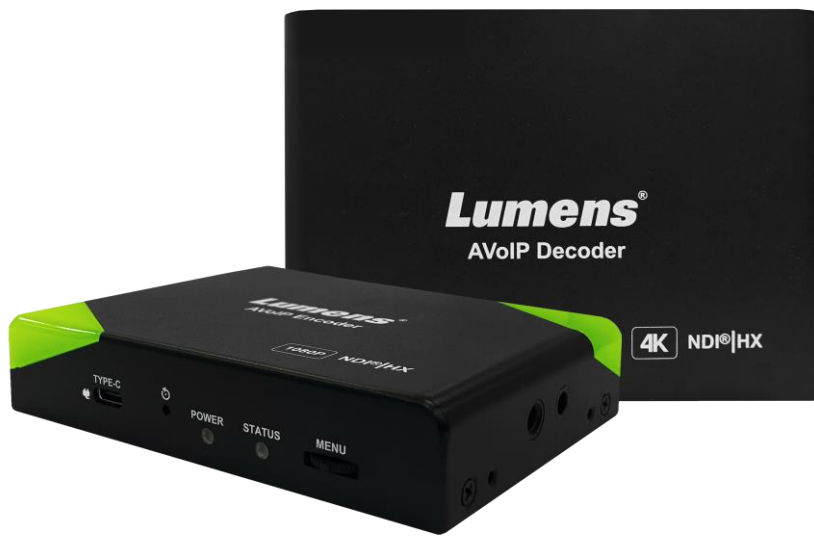


OIP-N40E Bridge

User Manual - English



[Important]

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens
<https://www.MyLumens.com/support>

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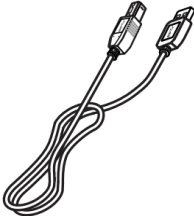
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Chapter 1 Package Contents

OIP-N40E



USB 2.0 cable (1.8 M)
(Type A Type C)



Locking metal plate (x2)

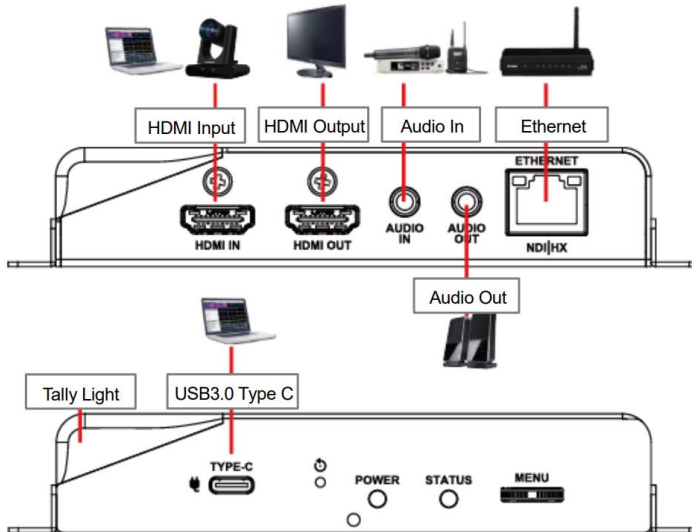


M3 metal plate screw (4x4)



Chapter 2 Product Installation

2.1 I/O Interface

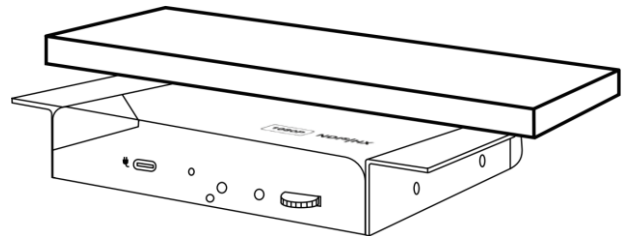


Note We recommended using high-performance USB-C cables (10Gbps or higher)

2.2 Product Installation

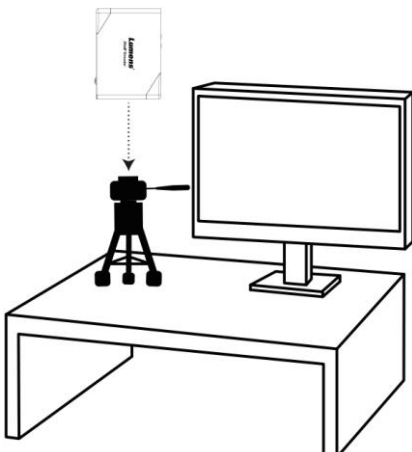
■ Using the accessory metal plates

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



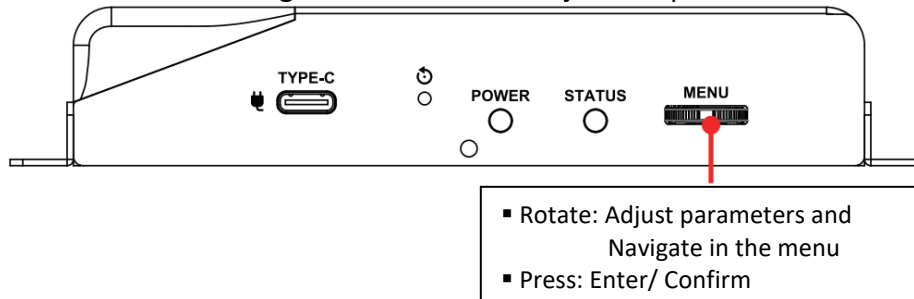
2.3 Description of Indicator Display

Power Status	Tally Status	Power	Standby	Tally
Startup in progress (initialization)	-	Red light	-	Flickering Red/Green light
In use	Signal	Red light	Green light	-
	No Signal			-
	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 3.1 Using the rocker switch, 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.)

Encode	Input	Network	Status
IP Address :		192.168.4.147	
Netmask :		255.255.255.0	
Gateway :		192.168.4.254	
MAC ID :		dc:e2:ac:03:50:3	
HDMI Output :			
FW Version :		0IA0.00k	
Exit			

(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 : admin
- Password : 9999

Chapter 4 Product Application and Connection

4.1 Signal Source Transmission

OIP-N40E can convert IP signal to USB or USB signals to IP.

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

(1) Connection Method

- Connect the OIP-N40E and the computer to the network switch using network cables, so that you can access the OIP-N40E webpage for configuration.



(2) USB Output (IP to USB)

Enable the Virtual USB Output to display the UVC image from an IP camera on a computer.

[System] - [Output] – [Virtual USB Output]

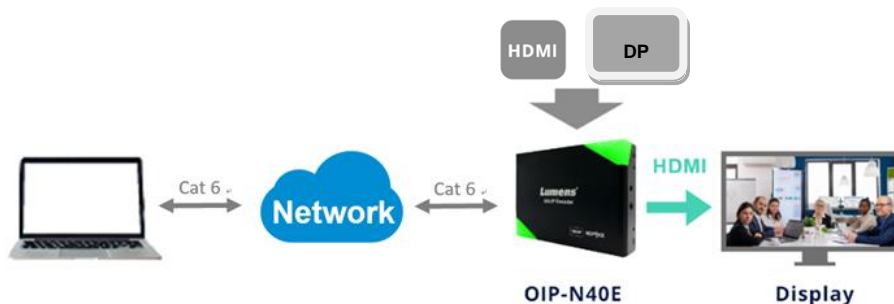
[Source] list > Connect camera > Press [Play] to display image



(3) HDMI Output Pass-through (HDMI / DP to HDMI)

Connect the HDMI or DP source to the OIP-N40E HDMI IN/USB-C port, then connect the OIP-N40E HDMI OUT port to a HDMI display, so that the image can pass-through.

[Stream] > [Source] > [Select HDMI / DP / Auto]



(4) Stream Output (HDMI to IP)

Connect the HDMI source to the OIP-N40E HDMI IN port, then output the stream using the selected streaming protocol.

[Stream] > [Stream Type] > [NDI / RTSP / RTMP / Dante]

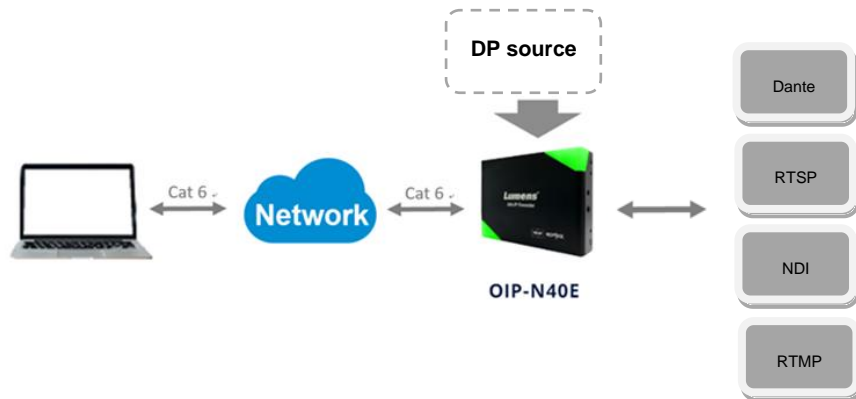
[Stream] > [Source] > [Select HDMI source]



(5) Stream output (USB-C to IP)

Connect the DP supported computer to the OIP-N40E USB-C port, then output the stream using the selected streaming protocol.

[Stream] > [Stream Type] > [NDI / RTSP / RTMP / Dante]
[Stream] > [Source] > Select [DP source]



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

OIP supports network bridging. Use the OIP-N40E with the 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) USB Webcam extension

- Connect the OIP-N40E with the OIP-N60D in the Source list.
- Connect the USB camera to the OIP-N60D using a USB-A cable
- Connect a computer to the OIP-N40E using a USB-C cable.

OIP-N60D: [System] > [Output] > Enable [USB Extender] and [Virtual USB]

OIP-N40E: [System] > [Output] > Connect the OIP-N60D in the [Extender Source List]

The USB camera image will be output to the computer through the OIP-N40E's USB output.



(2) USB Webcam extension + DP output

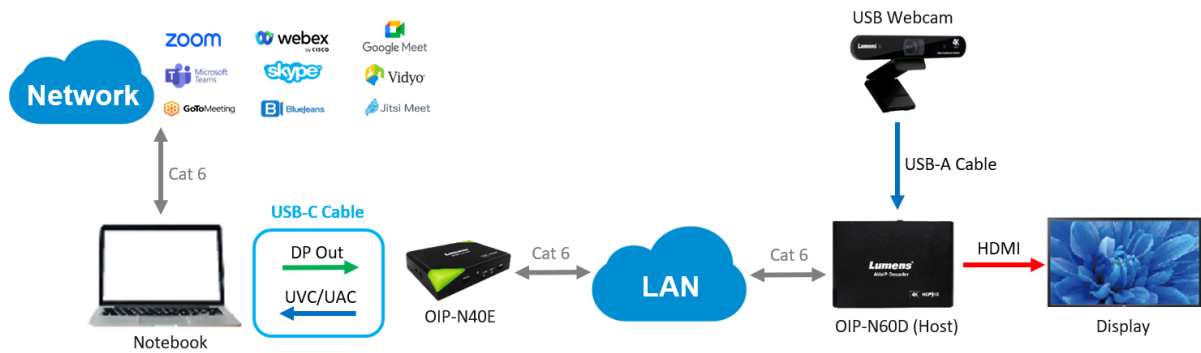
- Connect the OIP-N40E with the OIP-N60D in the Source list.
- Connect the USB camera to the OIP-N60D using a USB-A cable
- Connect a computer to the OIP-N40E using a USB-C cable

OIP-N60D: [System] > [Output] > Enable [USB Extender] and [Virtual USB]

OIP-N40E: [System] > [Output] > Connect the OIP-N60D in the [Extender Source List]

OIP-N40E: [Stream] > [Source] > [Select DP]

The computer can use the USB camera as the webcam and project the meeting live view to the HDMI display.



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	<u>NDI HX</u> / RTSP / RTMP / RTMPS	Select the stream type
Input	HDMI-in From	<u>Auto</u> / HDMI/ DP	Select the input source
Network	IP Mode	Static/ <u>DHCP</u> / Auto	Dynamic Host Configuration
	IP Address	<u>192.168.100.100</u>	Configurable when set to <i>Static</i>
	Subnet mask (Netmask)	<u>255.255.255.0</u>	
	Gateway	<u>192.168.100.254</u>	
Status	-	-	Display the current machine status

Chapter 6 Webpage Interface

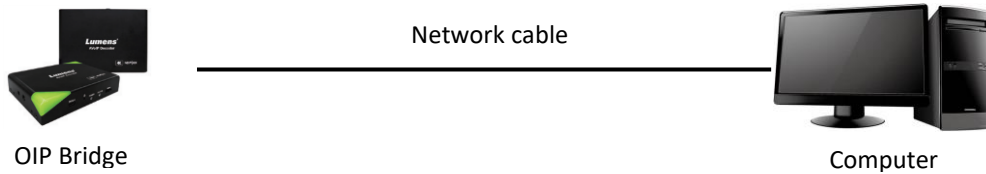
6.1 Connecting to Internet

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.



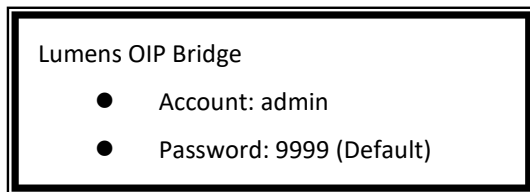
6.2 Log into the webpage

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

Note For a first-time login, please refer to [6.3.8 System- User](#) to change the default password



6.3 Webpage Menu Description

6.3.1 Dashboard

Lumens®

OIP-N40E

Default

HELLO

EN

OIP-N40E

Dashboard

Stream

Source

Audio

System

Maintenance

About

HEVC^{Advanced}

Input Info:

Video Type: HDMI

Resolution: No Signal

Encode Info:

Stream Format: NDI

Resolution: 1080P 60

Audio Sample Rate: 48K Hz

Codec: H264

Bit Rate: 16384 kbps

Virtual USB Info:

Device ID:

Location:

System Info:

Device ID: OIP-N40E

Location: Default

Firmware Ver.: OIA1.25

IP Add.: 192.168.4.93

MAC Add.: dc:e2:ac:03:50:70

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

Lumens®

OIP-N40E

Default

Dashboard

Stream

Source

Audio

System

Maintenance

About

1 Source

2 Resolution

3 Frame Rate

4 IP Ratio

Auto

1080P

60

30

▼

▼

▼

▼

Stream Setting:

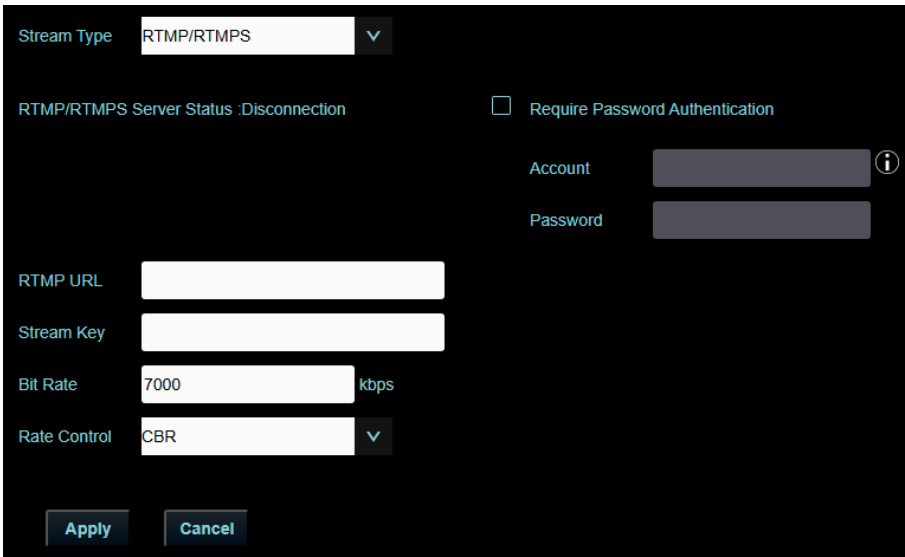
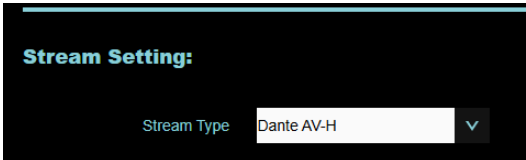
5 Stream Type

RTSP

▼

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

5.1	NDI HX	<div data-bbox="421 116 866 784"> </div> <ul style="list-style-type: none"> ▪ Camera ID/Location: Name/Location display according to System Output settings ▪ Group Name: The group name can be modified here and set with Access Manager - Receive in NDI Tool ▪ NDI HX: HX2/HX3 is supported ▪ Multicast: Enable/Disable Multicast <p>Note It is suggested to enable Multicast when the number of users online watching the live image simultaneously is more than 4</p> ▪ Discovery Server: Discovery service. Check to enter the Server IP address
5.2	RTSP/ RTSPS	<div data-bbox="421 1167 866 1787"> </div> <ul style="list-style-type: none"> ▪ Codec (Encode Format): H.264/HEVC RTMP/ RTMPS only support H.264 ▪ Bit Rate: Setting range 2,000 ~ 20,000 kbps ▪ Rate Control: CBR/VBR ▪ RTSP URL: Output the image with RTSP URL ▪ Multicast: Enable/Disable Multicast

		<p>When the number of users online watching the live image simultaneously is more than 4.</p> <ul style="list-style-type: none"> Authentication: Enable/Disable Username/Password Authentication <p>The username/password is the same as the webpage login password, please refer to 6.1.10 System- User to add/modify account information</p>
5.3	RTMP/RTMPS	 <ul style="list-style-type: none"> RTMP URL: Enter the RTMP URL Stream Key: Enter the Stream Key Bit Rate: 2,000 ~ 20,000 kbps Rate Control: Choose from CBR / VBR Required Password Authentication: Enable / Disable authentication
5.4	Dante AV-H (After activating the Dante license)	 <p>Choos Dante AV-H to output Dante</p>

6.3.3 Source

< The source section can only be accessed when the *Virtual USB* in the *System – Output* section is enabled.>

The screenshot shows the 'Source List' interface. On the left is a sidebar with navigation options: Dashboard, Stream, Source (highlighted), Audio, System, Maintenance, and About. The main area contains a 'Source List' table with columns: No., Name, Location, IP Add., Type, Status, and Remark. Below the table are navigation buttons: up, down, Edit, Delete, and Play. Further down are 'NDI Options' and 'RTSP Options' sections. The 'NDI Options' section includes a 'Group Name' field (set to 'Public'), a 'Discovery Service' checkbox, and a 'Server IP' field. The 'RTSP Options' section includes an 'RTSP Protocol' dropdown (set to 'TCP').

No.	Name	Location	IP Add.	Type	Status	Remark
1	----	----	----	Dante AV-H	OK	For Dante
2	VC-A53	Default	192.168.4.85	RTSP	OK	8557/h264
3	VC-A53	Default	192.168.4.120	RTSP	OK	8557/h264

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

This screenshot shows the 'Source List' interface with a red box highlighting the first row of the table (No. 1, Name: VC-TR50-Dante-AV-H, Location: Default, IP Add.: 192.168.4.125, Type: RTSP, Status: OK, Remark: For Dante) and the 'Play' button at the bottom right of the table.

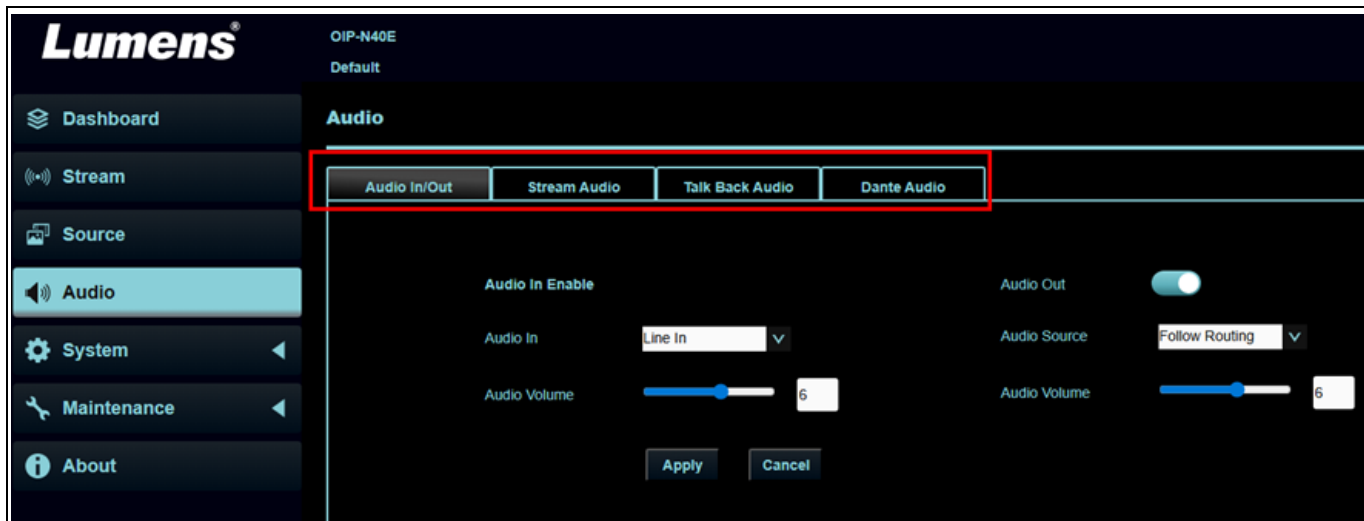
No.	Name	Location	IP Add.	Type	Status	Remark
1	VC-TR50-Dante-AV-H	Default	192.168.4.125	RTSP	OK	For Dante
2	VC-TR50-Dante-AV-H	Default	192.168.4.125	RTSP	OK	8557/h264
3	VC-TR51-AE	Default	192.168.4.63	ONVIF	Login	
4	IP-Camera	country/china	192.168.4.48	ONVIF	Login	
5	VC-TR41-AE	Default	192.168.4.92	ONVIF	Login	
6	BC-200	Default	192.168.4.94	ONVIF	Login	
7	VC-TR50A-HW	MyCamera	192.168.4.120	ONVIF	Login	
8	VC-TR50A	MyCamera	192.168.4.116	ONVIF	Login	
9	VC-BC301P	Default	192.168.4.29	ONVIF	Login	
10	VC-TR70-AE	Default	192.168.4.69	ONVIF	Login	
11	CV355-27X-IP	Default	192.168.4.11	ONVIF	Login	
12	VC-A71P-HN-3	Default	192.168.4.109	ONVIF	Login	
13	VC-850U-HW	MyCamera	192.168.4.97	ONVIF	Login	
14	VC-TR30-AE	MyCamera	192.168.4.55	ONVIF	Login	
15	VC-TR40N-2	MyCamera	192.168.4.23	ONVIF	Login	
16	N600-ABCEFGHIJLMNOPQRSTUWVXY	Default	192.168.4.131	ONVIF	Login	

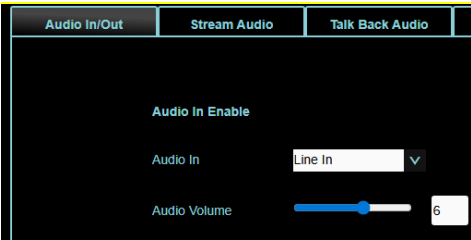
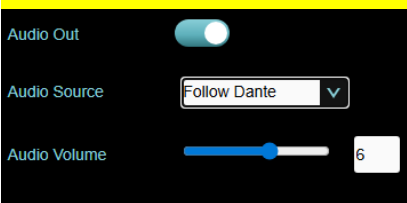
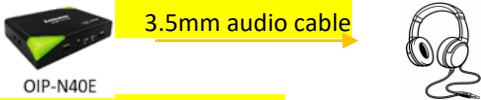


To ensure the unit OIP unit can be recognized by the Dante Controller after enabling the Dante function, please follow the steps below:

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

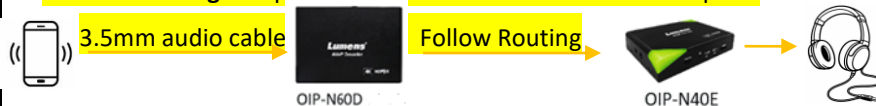
Remark: If the play button is not activated, the device will not be detected properly by the Dante Controller.

6.3.4 Audio

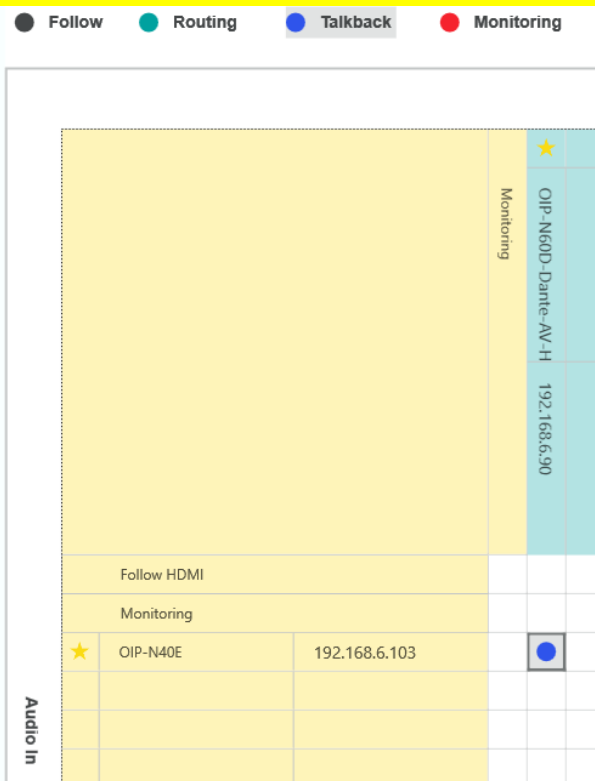


No	Item	Description
1	Audio In / Out	<p>■ Audio In: Select Line in or Mic in</p>  <p>■ Audio Out: Enable or disable the audio output port.</p>  <p>The 3.5 mm output port can be connected to devices such as earphones or speakers</p>  <p>■ Source of the Audio Output port:</p> <ul style="list-style-type: none"> - Follow Stream: Output the sound of the device you connected in the N40E Source section. - Follow Dante: Output the sound from a Dante device you connected with Dante Controller.  

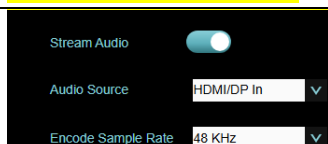
- Follow **Routing**: Output audio from the OIP-N60D's audio input.



<The Follow Routing function can only be achieved by connecting the OIP-N60D and OIP-N40E using the Lumens Routing Switcher software.>



Audio Volume: 0~10



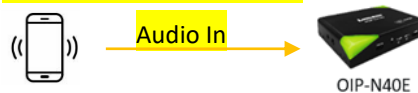
▪ **Stream Audio**: Enable or disable audio output.

▪ **Audio Source for streaming**: Select which audio input you want to output with streaming:

- **HDMI / DP In**: Outputs audio from the device connected to the HDMI IN or DP IN port.












- **Audio In**: Outputs audio from a device such as cellphone connected to the 3.5mm audio input on the N40E.



- **USB Audio**: Outputs sound from a device such as a laptop connected via USB.



2 Stream Audio

		<div>▪ Encode Sample Rate: 48KHz</div> <div>Audio Output Stream Type</div> <div>Select the protocol used to transmit audio:</div> <div><div><div>Dashboard</div><div>Stream</div><div>Source</div><div>Audio</div><div>System</div><div>Maintenance</div><div>About</div></div><div><div>Source: Auto</div><div>Resolution: 1080P</div><div>Frame Rate: 60</div><div>IP Ratio: 30</div><div>Stream Setting:</div><div>Stream Type: Dante AV-H</div><div>NDI HX</div><div>RTSP</div><div>Dante AV-H</div><div>RTMP/RTMPS</div></div></div> <div><div>1. Dante AV-H</div><div>2. RTSP</div><div>3. NDI HX</div><div>4. RTMP / RTMPS</div></div> <div>The selected audio source above in <i>Stream Audio</i> section will be transmitted through the output type you choose in the Stream Setting section.</div> <div>Ex.</div> <div><div><div></div><div>HDMI</div><div></div><div>RTSP</div><div></div></div><div><div></div><div>Audio in</div><div></div><div>Dante</div><div></div></div><div><div></div><div>USB Audio</div><div></div><div>Dante</div><div></div></div></div> <div><div><div>Talk Back Audio</div><div>Audio Source: Audio In</div><div>Encode Type: AAC</div><div>Encode Sample Rate: 48 KHz</div></div></div> <div>▪ Talk Back Audio: Enable or disable Talk Back</div> <div>After connecting the OIP-N60D and OIP-N40E using the Lumens Routing Switcher software (see the screenshot below), the Talk Back function enables two-way audio communication, allowing each device's input to be routed to the other device's output.</div>
3	Talk Back Audio	

6.3.5 System- Output

No	Item	Description
1	Device ID/ Location	<p>Device Name/Location</p> <ul style="list-style-type: none"> The name is limited to 1 - 12 characters The location is limited to 1 - 11 characters Please use uppercase and lowercase letters or numbers for characters. Special symbols such as “/” and “space” cannot be used <p>Note Modifying this field will modify the Onvif device name/location.</p>
2	Display Overlay	Customize the position of the “date and time”, or “custom content”, to display in the top left or top right corner of the output.
3	Virtual USB Setting	<p>Virtual USB output: Enable / Disable</p> <p>Codec: MJPEG</p> <p>UAC Output: OFF / Follow Video source / Follow Dante / Follow Routing</p>
4	Extender Source List	Display the available extender source devices in the network.

6.3.6 System- Network

Dashboard

Stream

Audio

System

Output

Network

Date & Time

User

Maintenance

About

Network

1

DHCP

IP Address192.168.4.32

Netmask255.255.255.0

Gateway192.168.4.254

DNS0.0.0.0

MAC Addressdc:e2:ac:03:50:46

2

HTTP Port80

Apply

Cancel

6.3.7 System- Date & Time

Dashboard

Stream

Audio

System

Output

Network

Date & Time

User

Maintenance

About

Date & Time

Time in Device

Date2000/01/01

Time05:30:53

Time SettingSet Manually

Date2023/11/13

Hours13

Minutes58

Seconds33

Apply

Cancel

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

Dashboard

Stream

Audio

System

Output

Network

Date & Time

User

Maintenance

About

User

Edit

DEL

	User Name	Authorization Mode
<input type="checkbox"/>	admin	Administrator
<input data-bbox="746 443 770 477" type="button" value="+"/>		

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 management	V	X

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

6.3.9 System - Security

Dashboard

Stream

Source

Audio

System

Output

Network

Date & Time

User

Security

Control

Maintenance

About

Security

HTTP Authentication

Digest

802.1x Setting

Enable☐

EAP Identify

EAP Password

EAP Method

PEAP

Import

Choose File

CA Certificate

Issuer DN

Subject DN

Available Period

Function Descriptions

HTTP Authentication: Choose from Digest / Basic / Off

802.1x Setting: Enable / Disable

6.3.10 System - Settings

Dashboard

Stream

Source

Audio

System

Output

Network

Date & Time

User

Security

Settings

Settings

Custom Image

No Signal Screen

Show System Info :☒

No Signal

Default

Custom

Resolution:1920x1080

File Format:JPEG / BMP

Size(Max):10MB

Upload

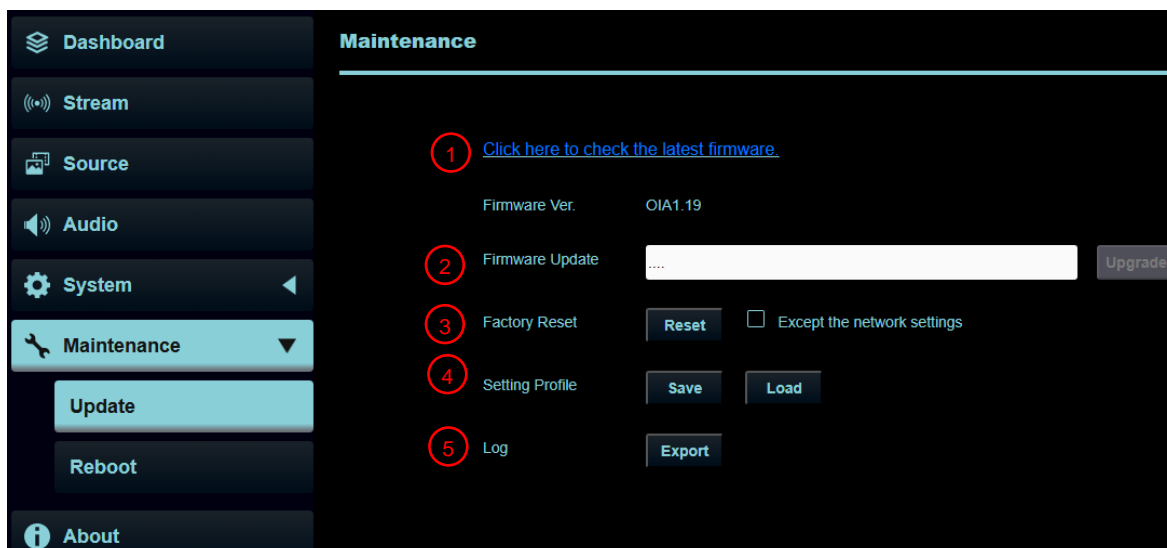
Apply

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.

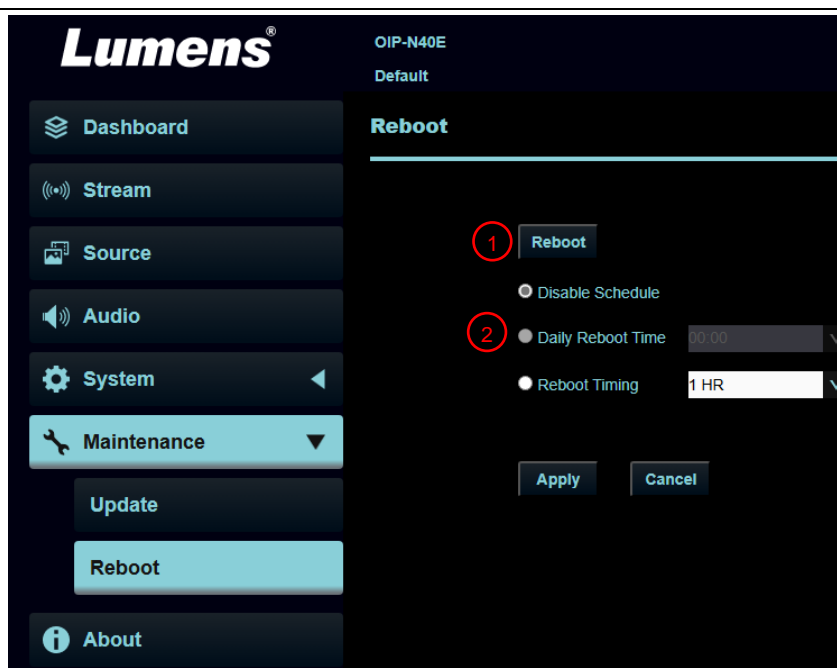
System Information: Enable this option to display product details such as the IP address and firmware version on the monitor.

6.3.11 Maintenance - Update



No	Item	Description
1	Firmware link	Click on the link to the Lumens website and enter the model to obtain the latest firmware version information
2	Firmware Update	Select the downloaded firmware file, and click [Upgrade] to update the firmware <div>Note</div> Update takes about 2 - 3 minutes <div>Note</div> Please do not operate or turn off the power of the device during the update to avoid firmware update failure
3	Factory Reset	Reset all configurations to factory default settings
4	Setting Profile	Save setup parameters. Users can save and load device setup parameters
5	Log	Export the log file containing the records from the recent period.

6.3.12 Maintenance – Reboot



No	Item	Description
1	Reboot	Click the button to reboot the unit
2	Schedule Reboot	Disable Schedule: Turn off the schedule reboot function.

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	<ol style="list-style-type: none">1. Confirm that the cables are fully connected. Please refer to Chapter 4, Product Application and Connection2. Confirm that the input signal source resolution is 1080p or 720p3. 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	<ol style="list-style-type: none">1. Confirm that the OIP-N60D has enabled the USB extender function2. 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	<p>When using OIP-N products with a network switch, it is recommended to configure the following settings:</p> <ol style="list-style-type: none">1. Select a switch where every port supports 1Gbps transmission2. 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 network4. Enable IGMP Snooping5. 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.
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■ 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 numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

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