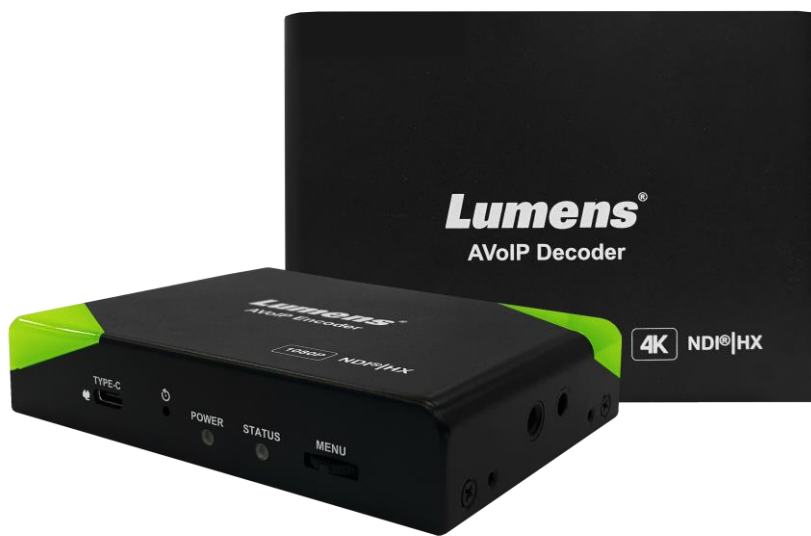


OIP-N60D/ OIP-N60D, Dante AV-H Bridge

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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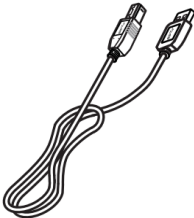
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Chapter 1 Package Contents

OIP –N60D Bridge



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



Locking metal plate (x2)

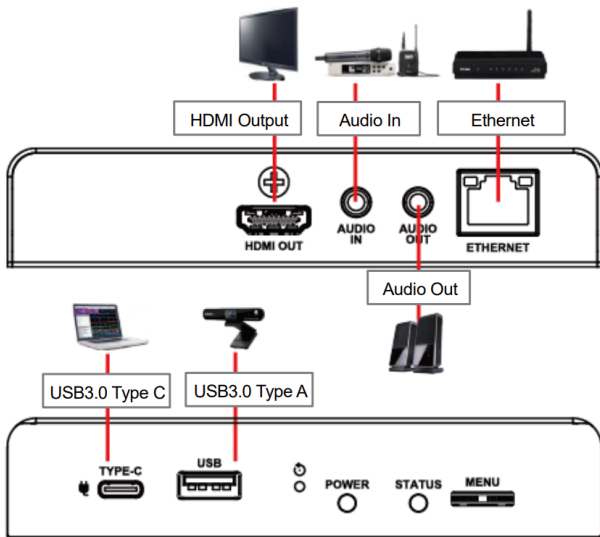


M3 metal plate screw (4x4)



Chapter 2 Product Installation

2.1 I/O Interface

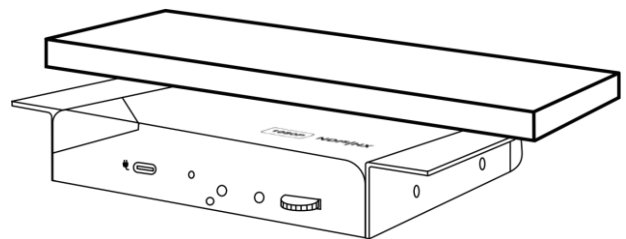
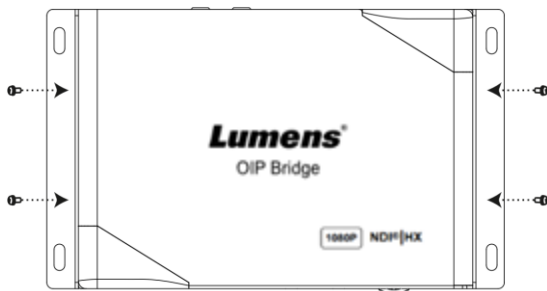


Note We recommended using high-performance USB-C cables (10Gbps or higher)

2.2 Product Installation

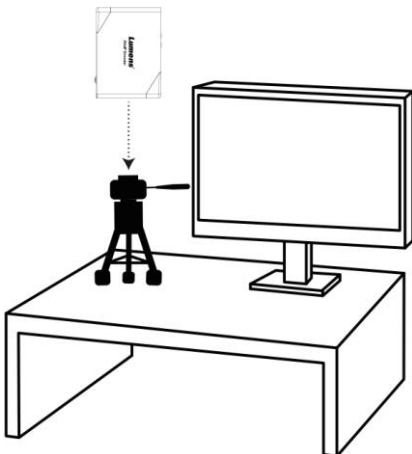
■ Using the accessory metal plates

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 Bridge.



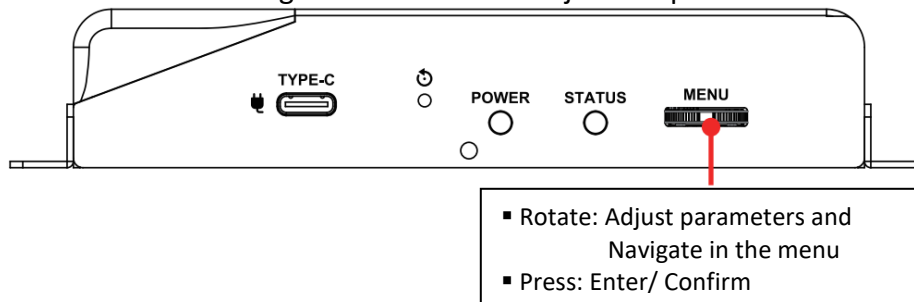
2.3 Description of Indicator Display

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

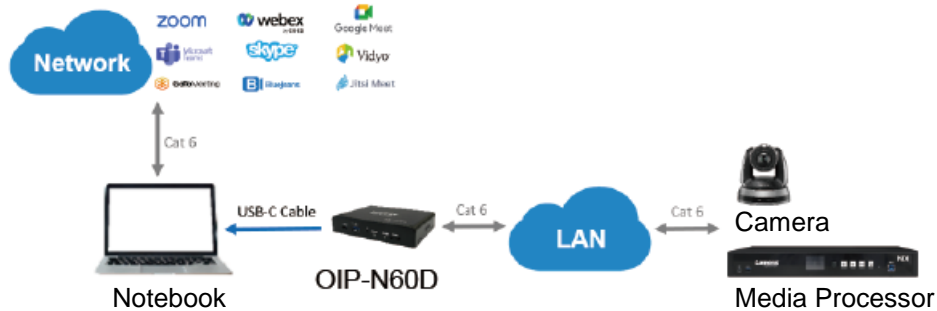
4.1 Virtual USB Network Camera

OIP-N60D can convert IP signal source to USB (UVC) for seamless integration with video conferencing platforms.

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

(1) Connection Method

- Connect the OIP-N60D to the LAN
- Connect the computer to the OIP-N60D using a USB-C 3.0 cable



(2) Webpage Settings

- [System] > [Output], open Virtual USB Setting
- [Source] > [Search new Source] > Select the desired output device > Click [Play] to output selected stream

(3) USB Camera Screen Output

- Launch Zoom, Microsoft Teams, or your preferred conferencing application.
- In the application, change the video source to:

Note Source Name: Lumens OIP-N60D

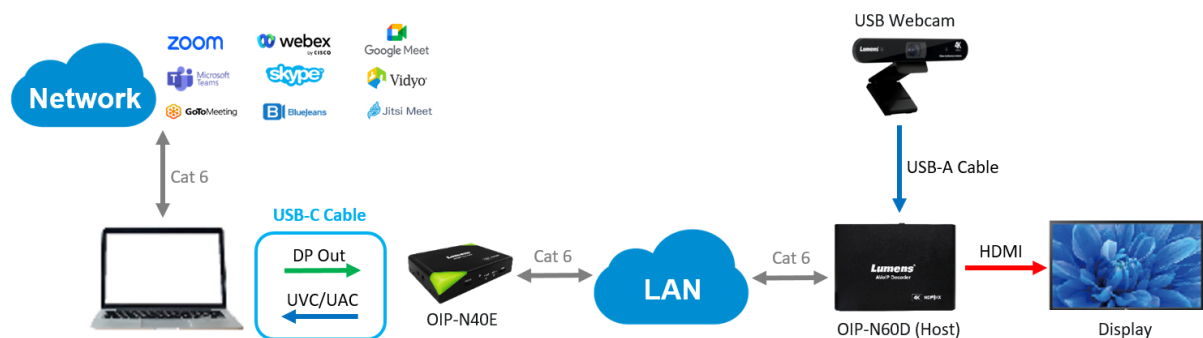
4.2 USB Network Camera Extension (OIP-N40E/OIP-N60D required)

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



Note

- Computers can use a USB-C cable to connect to OIP-N40E and use USB network camera
- Computers can transmit images onto a TV through a USB-C connection to OIP-N40E

- (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.

5.1 OIP-N60D

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
Source	Source List	-	Display the signal source list
	Blank Screen	-	Display black screen
	Scan	-	Update the signal source list
Output	HDMI Audio From	Off / Follow Stream/Follow Routing/ Follow Dante	Select the HDMI audio source
	Audio Out From	Off / Follow Stream/Follow Routing/ Follow Dante	Select where audio outputs to
	HDMI Output	By Pass Native EDID 4K@60/ 59.94/ 50/ 30/ 29.97/ 25 1080p@60/ 59.94/ 50/ 30/ 29.97/ 25 720p@60/ 59.94/ 50/ 30/ 29.97/ 25	Select the HDMI output resolution
Network	IP Mode	Static/ DHCP / Auto	Dynamic Host Configuration
	IP Address	<u>192.168.100.200</u>	Configurable when set to Static
	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

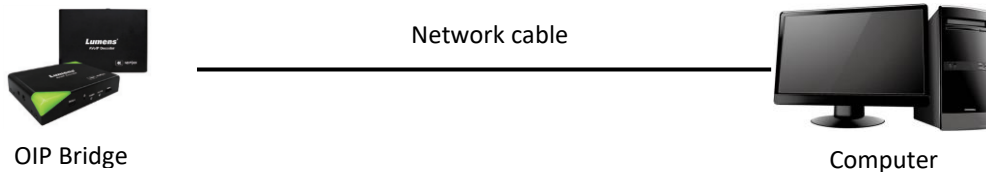
6.1 Connecting to Internet

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.



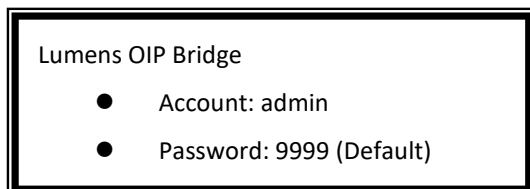
6.2 Log into the webpage

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 [6.1.10 System- User](#) to change the default password



6.3 Webpage Menu Description

6.3.1 Dashboard

OIP-N60D

Default

EN

HELLO

Output Info:

Resolution: 1920x1080p 59.94

Color Format: RGB

Audio Delay: HDMI Out OFF

Audio Out OFF

Source 1 Info: No Data

Device ID: ---

Location: ---

IP Add.: ---

Stream Format: ---

Codec: ---

Resolution: ---

Audio Sample Rate: ---

Source 2 Info: No Data

Device ID: VC-TR40N

Location: Default,192.168.6.112

IP Add.: 192.168.6.112

Stream Format: unknown

Codec: H264

Resolution: ---

System Info:

Device ID: OIP-N60D

Location: Default

Firmware Ver.: OIB1.25

CEC Mode: Disable

IP Add.: 192.168.6.39

MAC Add.: dc:e2:ac:03:52:9e

Function Descriptions

Display output, source, 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-N60D Default

Source List: 1 **Search New Source** 2 Search Mode: only ONVIF

No.	Name	Location	IP Add.	Type	Status	Remark
1	CV630-BI	Default	192.168.4.97	RTSP	OK	8557/h264
2	VC-TR40_HW	Default	192.168.4.47	RTSP	OK	8557/h264
3	VC-TR40_HW	Default	192.168.4.47	RTSP	OK	8556/h264
4	CV620-BI	Default	192.168.4.80	RTSP	OK	8557/h264
5	VC-TR40N	Default	192.168.4.68	RTSP	Source 1	8557/h264
6	VC-TR40N	Default	192.168.4.68	RTSP	OK	8556/h264
7	VC-A71P	Default	192.168.4.57	RTSP	Source 2	8557/h264
8	VC-TR60-Dante-AV-H	Default	192.168.4.98	ONVIF	Login	
9	CamConnect_Processor	Default_981b	192.168.4.244	ONVIF	Login	
10	CV620-BI2_WI2	Default	192.168.4.141	ONVIF	Login	
11	PTH-01	Default	192.168.4.11	ONVIF	Login	
12	OIP-N40E	Default	192.168.4.45	ONVIF	Login	
13	OIP-N40E	Default	192.168.4.77	ONVIF	Login	
14	BC-200	Default	192.168.4.235	ONVIF	Login	
15	CV630-BI	Default	192.168.4.97	ONVIF	Login	
16	VC-TR60A	MyCamera	192.168.4.69	ONVIF	Login	
17	VC-B50U	MyCamera	192.168.4.16	ONVIF	Login	

3 4 5 6 7 8 9

NDI Options: **RTSP Options:**

7 Group Name: Public 9 RTSP Protocol: TCP

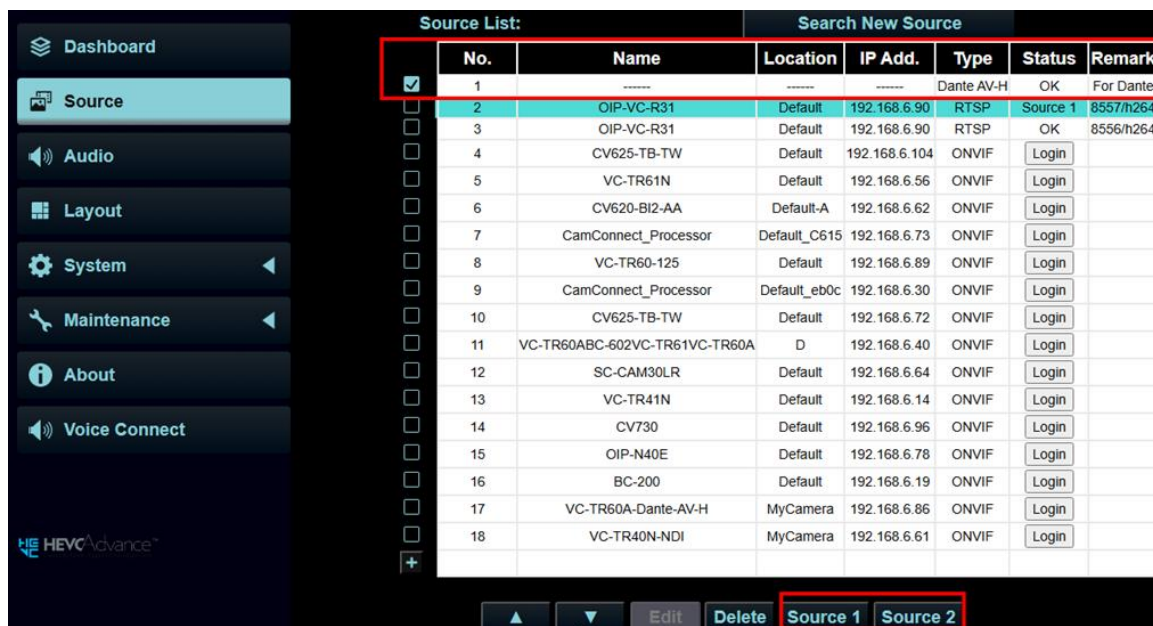
☐ Discovery Service

8 Server IP:

Apply Cancel

No	Item	Description
1	Search New Source	Click to search for devices in the same network segment and display them in a list
2	Search Mode (Only exists in non-Dante version)	Search from NDI&ONVIF / Only NDI / Only ONVIF
3	+Add	Manually add a device
4	Edit	Edit a connected device in the list.
5	Delete	Delete selected device in the list
6	Source1 &2	After connecting the source, click the Source button to output the image. A maximum of two sources can be output at the same time. Note: The "Source 2" option will only be visible when the PBP or PIP function has been enabled in the Layout section.(Please refer to the section 6.3.4 Layout)
7	Group Name	The group name can be modified here and set with Access Manager - Receive in NDI Tool
8	Server IP	Discovery service. Select to enter the Server IP address
9	RTSP Protocol	Choose from TCP and UDP

Dante controller



To ensure the unit OIP-N60D can be recognized by the Dante Controller after enabling the Dante function, please follow the steps below:

1. Access the OIP-N60D web page
2. Navigate to the [Source] section
3. Select [Dante AV-H] as the source
4. Click [Source] to activate the stream

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

6.3.3 Audio

Dashboard

Source

Audio

Layout

System

Maintenance

About

Audio

Audio In/Out

HDMI Audio Out

Talk Back Audio

Dante Audio

Audio In Enable

Audio In: Line In

Audio Volume: 6

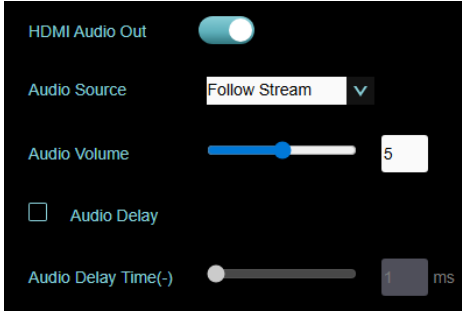
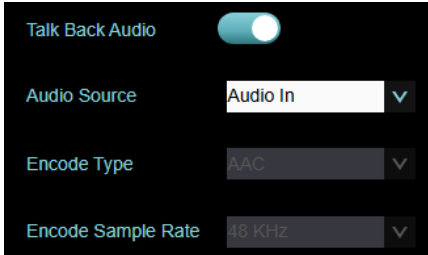
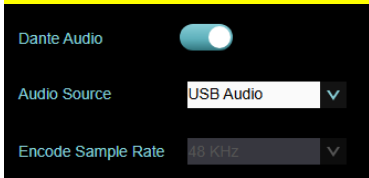
Audio Out: On

Audio Source: Follow Stream

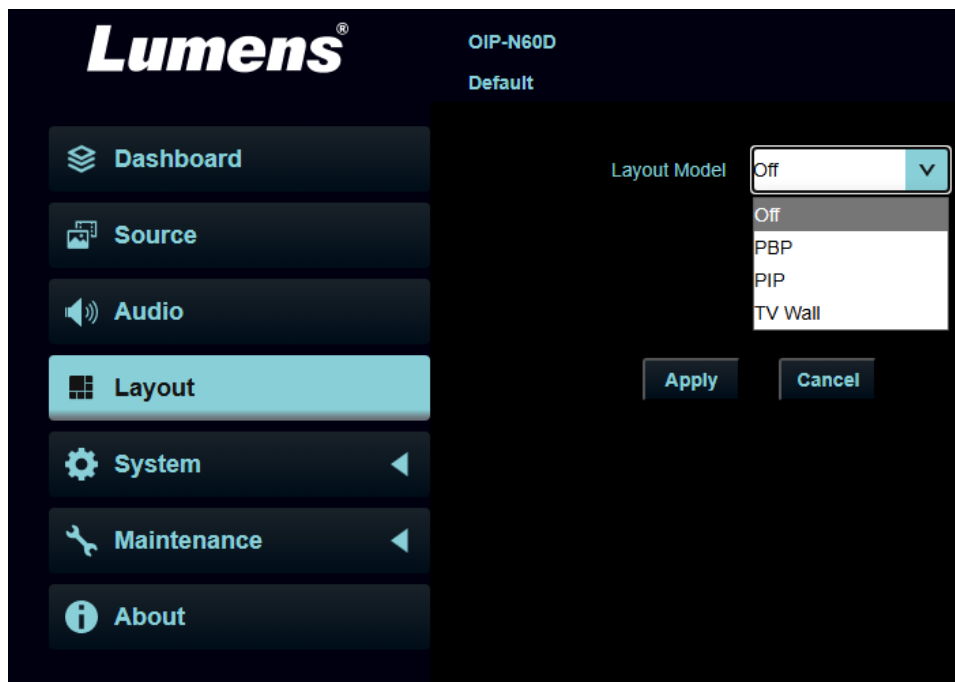
Audio Volume: 6

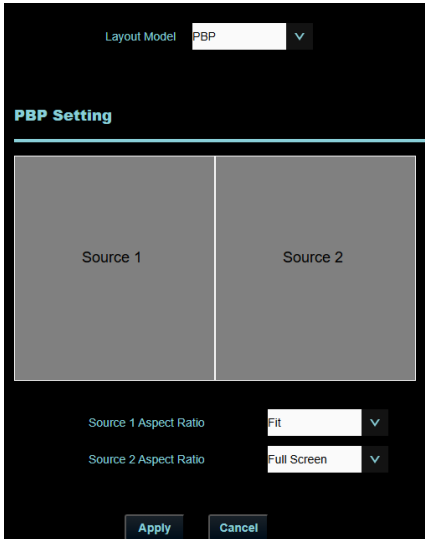
Audio Delay: 1 ms

No	Item	Description
1	Audio In / Out	<div> <div> <div>Audio In Enable</div> <div>Audio In: Line In</div> <div>Audio Volume: 6</div> </div> <div> <div>Audio Out: On</div> <div>Audio Source: Follow Routing</div> <div>Audio Volume: 0</div> </div> </div> <ul style="list-style-type: none"> Audio In: Line in / Mic in Audio Out: On / Off Audio Out Source: Follow Routing / Stream / Dante

		<ul style="list-style-type: none"> ▪ Audio Volume: 0~10 ▪ Audio Delay Time: 1~500 ms
2	HDMI Audio Out	 <ul style="list-style-type: none"> ▪ HDMI Audio Out: On / Off ▪ Audio Source: Follow Stream / Follow Routing / Follow Dante ▪ Audio Volume: 0~10 ▪ Audio Delay Time: 1~500ms
3	Talk Back Audio	 <ul style="list-style-type: none"> ▪ Talk Back Audio: On / Off ▪ Audio Source: Audio in / USB Audio ▪ Encode Type: AAC ▪ Encode Sample Rate: 48KHz
4	Dante Audio	 <ul style="list-style-type: none"> ▪ Dante Audio: On / Off ▪ Audio Source: USB Audio / Audio in ▪ Encode Sample Rate: 48 KHz

6.3.4 Layout



No	Item	Description
1	Layout	<p>Layout Model: Choose how you want the image to be displayed.</p> <ul style="list-style-type: none"> Off: Disable the layout design. PBP: Display two sources side by side. <ul style="list-style-type: none"> Fit: Display the entire image within the monitor without cropping Full Screen: Crop the image to fill the entire screen  <ul style="list-style-type: none"> PIP: Shrink the Source2 image into a smaller window overlaid on the Source 1 image. <ul style="list-style-type: none"> Layout Selection: Choose the position Upper left / Upper Right / Lower left / Lower Right Size Selection: Choose the size Small / Normal / Large

Layout Model

PIP Setting

Source 1

Source 2

Source 2 Layout Selection

Source 2 Size Selection

TV Wall

Layout Model

Bezel and Gap Compensation

Overall Width(OW)

Overall Height(OH)

Video Width(VW)

Video Height(VH)

0

0

0

0

UNIT: 0.1mm

Video Wall Setting

Horizontal Monitor Count

Vertical Monitor Count

Horizontal-Position

Vertical-Position

1

1

A

1

Horizontal Monitor Count

Vertical Monitor Count

Horizontal-Position

Vertical-Position

A B C

1 2 3

1. Size: (unit: 0.1mm)

Overall Width: Enter the total width of the display wall

Overall Height: Enter the total height of the display wall

Video Width: Enter the width of the video signal source

Video Height: Enter the height of the video signal source

2. Position

Horizontal Monitor Count: Select how many monitors are lined up from left to right (1~3)

Vertical Mount Count: Select how many monitors are stacked from top to

		<p>bottom (1~3).</p> <p>Horizontal-Position: Choose the position of the monitor in a row.(A~C)</p> <p>Vertical-Position: Choose the position of the monitor in a column.(1~3)</p>
--	--	---

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	Resolution	<p>By Pass</p> <p>Native EDID</p> <p>4K@60/ 59.94/ 50/ 30/ 29.97/ 25</p> <p>1080p@60/ 59.94/ 50/ 30/ 29.97/ 25</p> <p>720p@60/ 59.94/ 50/ 30/ 29.97/ 25</p>
3	HDMI Format	Set HDMI format from YUV422/RGB/YUV444
4	USB Extender	<p>Turn on/off USB network camera extension (Can only be configured when the Video output resolution is set to 4K 30 fps or lower)</p> <p>The USB camera will be displayed in the UAC output list once it has been detected.</p>
5	Virtual USB output	<p>Enable / Disable</p> <p>Choose from Follow Video source / Follow Dante / Follow Routing</p> <p>(Can only be configured when the Video output resolution is set to 4K 30 fps or lower)</p>

6.3.6 System- Network

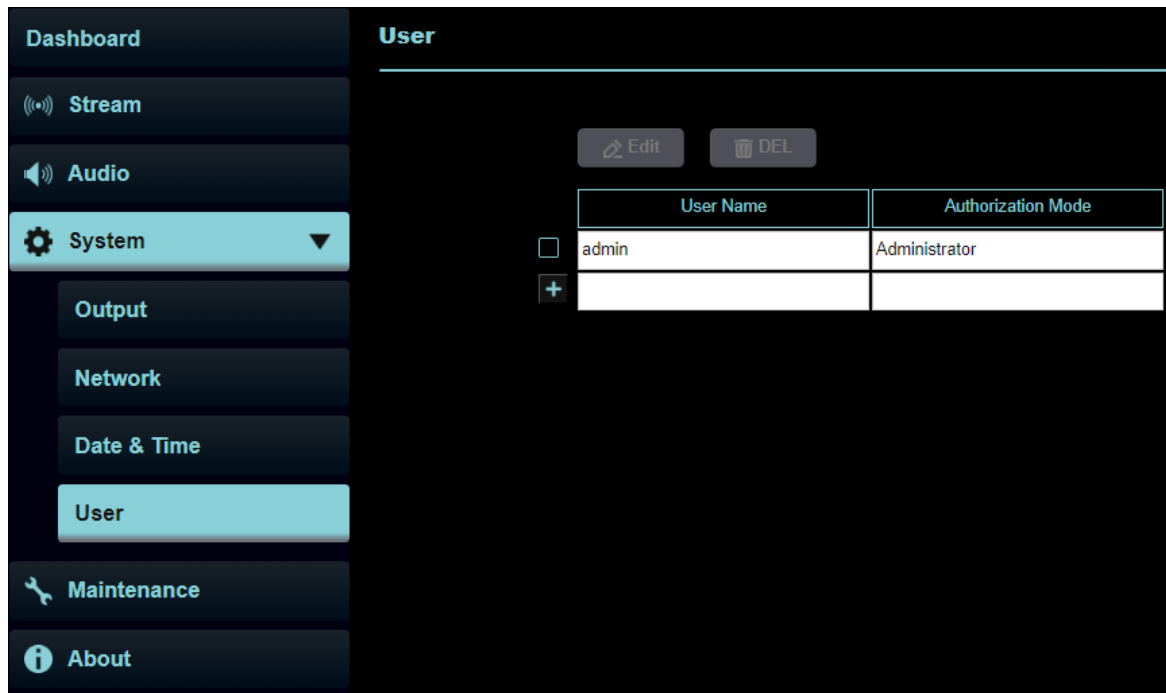
No	Item	Description
1	DHCP	Ethernet setting for OIP Bridge. Change of setting is available when DHCP function is disabled.
2	HTTP Port	Set HTTP port. The default Port value is 80

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 management	V	X

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

6.3.9 System – Security

Function Descriptions

HTTP Authentication: Choose from Digest / Basic / Off

802.1x Setting: Enable / Disable

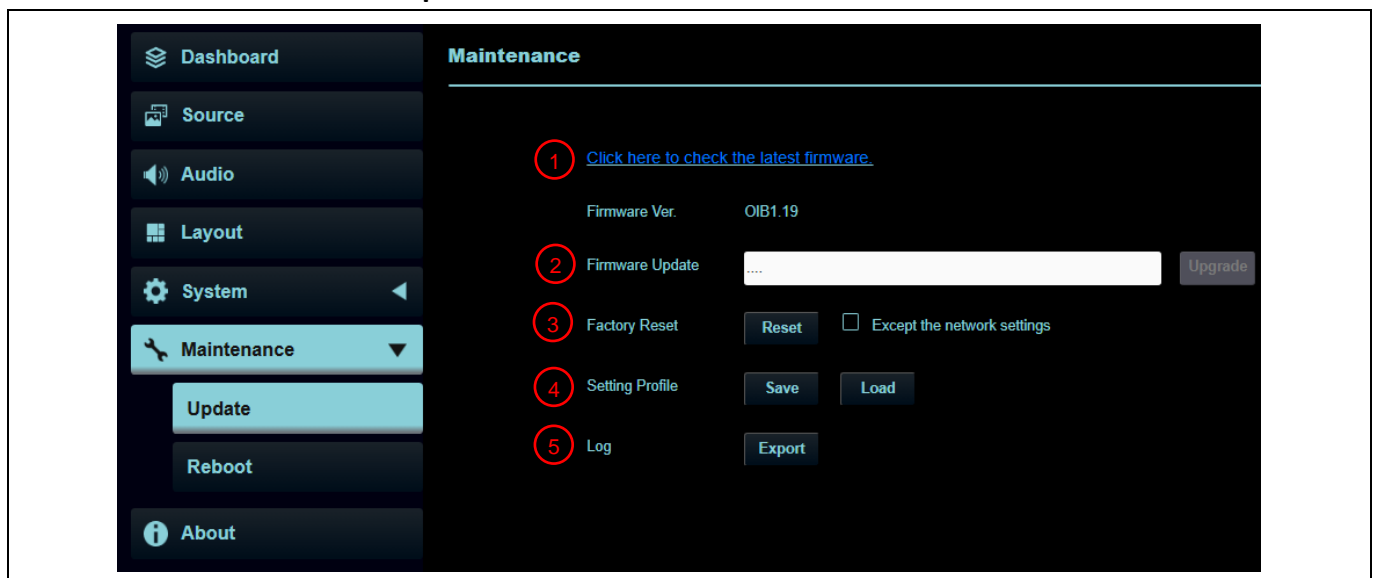
6.3.10 System – Settings – VoiceConnect Mode (Requires VC-TR60A)

No.	Camera IP	Camera Stream URL	Priority	Read Value(dB)	Compensation Value	Corrected Value(dB)
1.	192.168.100.100	rtsp://192.168.100.100:8557/h264	1	0	0	0
2.	192.168.100.100	rtsp://192.168.100.100:8557/h264	1	0	0	0
3.	192.168.100.100	rtsp://192.168.100.100:8557/h264	1	0	0	0
4.	192.168.100.100	rtsp://192.168.100.100:8557/h264	1	0	0	0

No	Item	Description
1	VoiceConnect Mode	VoiceConnect Mode allows the OIP-N60D to automatically switch its display to a VC-TR60A camera when that camera detects sound. (A maximum of 4 VC-TR60A units can be connected)

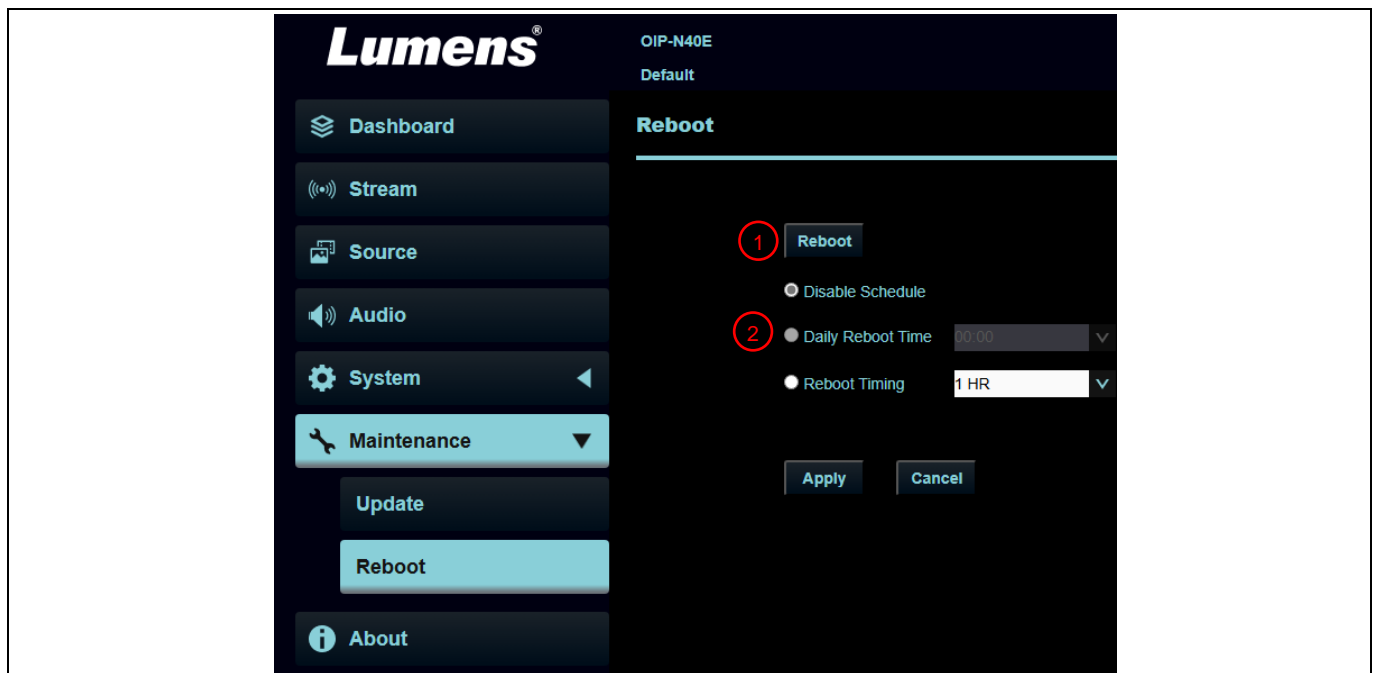
		<p>1. Enable / Disable VoiceConnect Mode</p> <p>2. Camera Settings</p> <ul style="list-style-type: none"> - Camera IP: Enter the VC-TR60A's IP address - Camera Stream URL: Enter the VC-TR60A's stream URL - Priority: Set the priority rank from 1 to 4 for each camera when more than one VC-TR60A detects sound. - Sound Value: Displays the current detected sound's value in dB. <p>3. Voice Trigger Settings</p> <ul style="list-style-type: none"> - Voice Trigger Level (dB): Set the threshold that determines when the VC-TR60A image will switch. - Trigger delay time: How long it takes for the image to switch after the VC-TR60A detects sound. - No Voice Trigger Action: Choose whether a specific camera stream will be displayed when no sound is detected. <ul style="list-style-type: none"> a. No Voice Duration: Select the time (3 - 30 seconds) after which the specific stream will be activated. b. Screen Switch URL: Enter the URL of the stream you want to output. <p>4. Conversation Detection</p> <p><i>When two VC-TR60A cameras are in use and the OIP switches between them repeatedly, the system will display the preset stream URL after the defined switching times.</i></p> <ul style="list-style-type: none"> - Screen switch URL: Enter the URL of the camera stream that should be displayed when Conversation Detection is activated. - Multi Voice Frequency: Define how many times the camera must switch before triggering Conversation Detection (3 ~ 6 times). - Multi Voice Time: Set the time range (10 ~ 30 seconds) during which Conversation Mode will be activated. - Multi Voice Release Time: Set the duration (10 ~ 30 seconds) after which Conversation Detection will be deactivated.
--	--	--

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 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 download and upload 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. 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

Lumens®

OIP-N60D
Default

Dashboard

Source

Audio

Layout

System

Maintenance

About

HEV Advance™

Lumens®

Manufacturer : Lumens Digital Optics Inc.

Model Name : OIP-N60D

Firmware Ver. : OIB1.25


MAC Address : dc:e2:ac:03:52:9e

Serial Number : O10A02550

Uptime : 26 min

www.Mylumens.com

Get Help ?



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 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
2.	Recommended specifications for USB-C cables	Transfer rate of 10 Gbps or higher
3.	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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