

OIP-N60C

AVoIP Controller

User Manual - English



FW Version: OIE100

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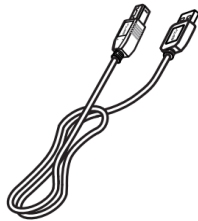
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Chapter 1 Package Contents

OIP Controller



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



Metal plate (x2)

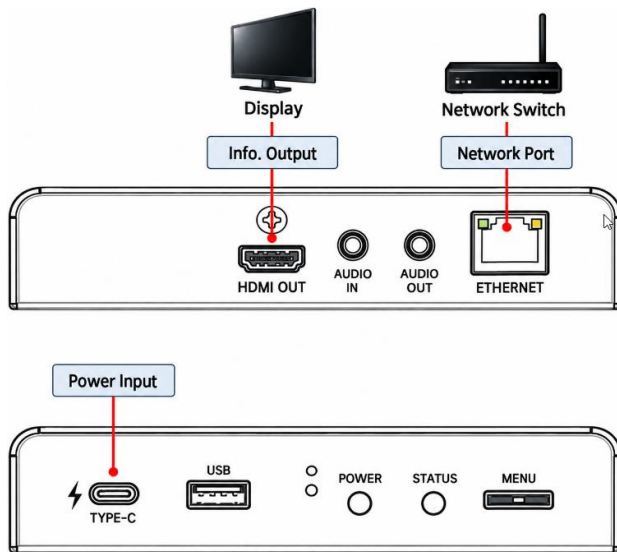


M3 screws (M3*4x4)



Chapter 2 Product Installation

2.1 I/O Interface

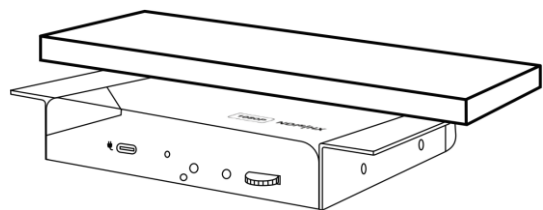


- HDMI Output: Displays the firmware version and IP address only.
No other information or display functions are supported.
- Audio In / Audio Out: Not supported.
- USB Type-C: For power supply only. No other functions are supported.
- USB Type-A: Not supported.
- Ethernet: Supports PoE (IEEE 802.3af) power supply.

2.2 Product Installation

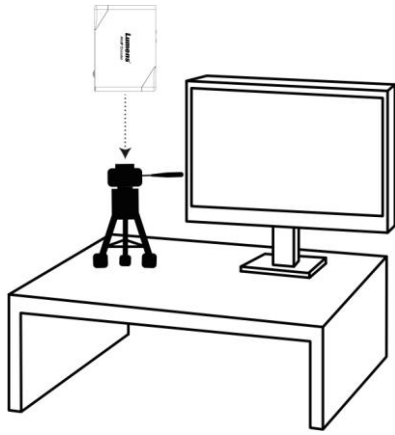
■ Using the accessory metal plates

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 LED Indicator

Status	Power	Standby
Starting Up (Initializing)	Red	-
Startup Complete (In Use))	Red	Green
Hello	Red	Amber
Firmware Update	Red	Red

Chapter 3 Webpage Interface

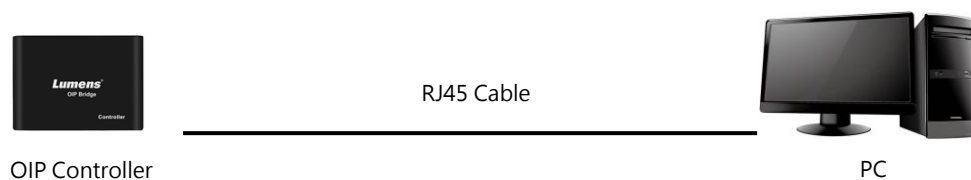
3.1 Connecting to Internet

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.

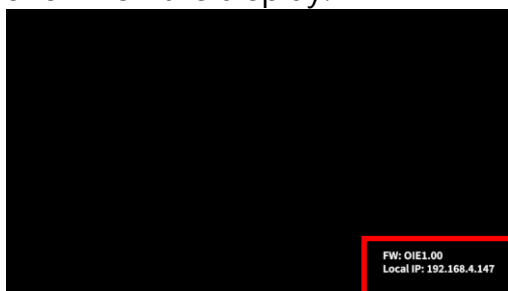


3.2 Check IP Address

Please refer to either of the following methods to check the IP address:

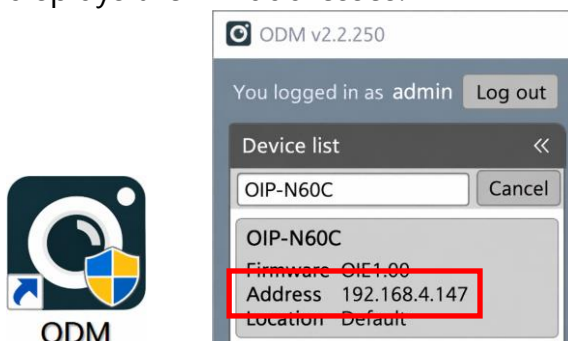
1. Check via HDMI OUT

Connect the device' s HDMI OUT to a display. The device' s IP address will be shown on the display.



2. Use ONVIF Device Manager (ODM)

ODM automatically discovers ONVIF-compatible devices on the network and displays their IP addresses.



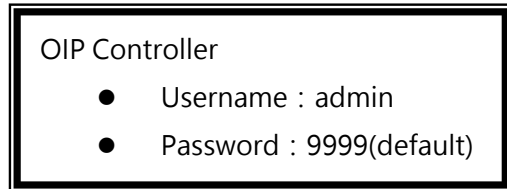
3.3 Log into the webpage

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

E.g. : <http://192.168.4.147>

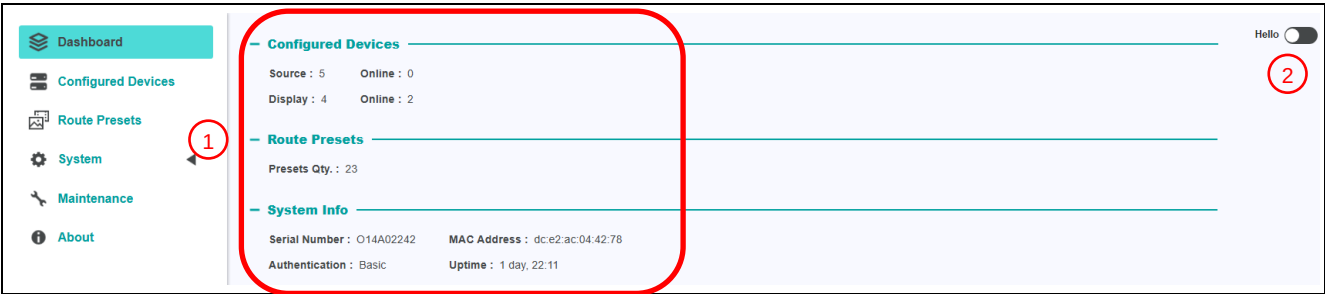
2. Enter the administrator' s account and password

Note For a first-time login, please refer to [3.4.7 System - User](#) to change the default password



3.4 Web Interface Menu

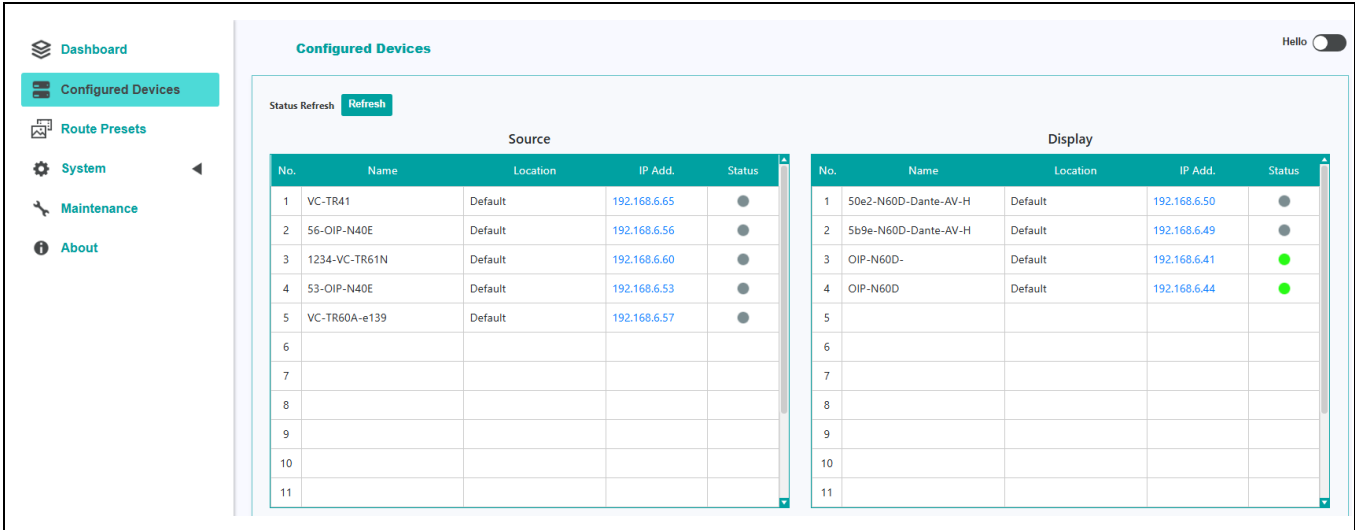
3.4.1 Dashboard



Description

- ① Displays a summary of the current system status, including:
- Configured Devices : Displays the number and online status of the configured source and display devices.
 - Route Presets : Displays the number of presets that have been created.
 - System Info : Displays the serial number, MAC address, authentication method, and system uptime.
- ② HELLO: Press the button to make the indicator LED on the device flash continuously for 1 minute. The LED will turn off automatically when the time expires.

3.4.2 Configured Devices



Description

Displays information about the configured source and display devices, including the device name, location, IP address, and connection status.

Click Refresh to update the device connection status.

3.4.3 Route Presets

Dashboard

Configured Devices

Route Presets

System

Maintenance

About

Route Presets

No.

Presets

Status

Execute

1

preset1

N/A

Start

Stop

2

preset2

N/A

Start

Stop

3

preset3

N/A

Start

Stop

4

preset4

N/A

Start

Stop

5

preset5

N/A

Start

Stop

6

preset6

N/A

Start

Stop

7

preset7

N/A

Start

Stop

8

preset8

N/A

Start

Stop

9

preset9

N/A

Start

Stop

10

preset10

N/A

Start

Stop

Execute Log

Description

Displays a list of the configured route presets and their execution status.

- Status : Displays the execution status of the preset.
- Start: Click to start the preset when it is not running.
- Stop: Click to stop the preset while it is running.
- Execute Log: Displays the preset execution history, routing results, and related error messages.

Note All preset settings for the OIP-N60C are imported from Routing Switcher.

To modify a preset, make the changes in Routing Switcher first, and then re-import the preset into the OIP-N60C.

3.4.4 System – Network

No	Item	Description
1	DHCP	Configures the network connection settings of the device. When DHCP is enabled, the system automatically obtains the network settings. When DHCP is disabled, the network settings can be configured manually. Note When DHCP is enabled: 1. If the device cannot obtain an IP address via DHCP after startup, the system will automatically assign an IP address in the 169.254.x.x range. 2. If the device has previously obtained an IP address, it will retain that IP address if the network connection is disconnected.
2	MAC Address	Displays the MAC address.
3	HTTP Port	Sets the HTTP port. The default port is 80.
4	HTTPS Ports	Sets the HTTPS port. The default port is 443.
5	Apply / Cancel	Applies or cancels the settings.

3.4.5 System - Security

Dashboard

Configured Devices

Route Presets

System

Network

Security

Date & Time

User

Maintenance

About

Security

HTTP Authentication

Basic

802.1x Setting

Enable

Description

Configure the system security and network authentication settings.

- HTTP Authentication: Configures the authentication method for web interface login.
- 802.1X Setting: Enables/ disables 802.1X network authentication. When enabled, you can configure the EAP authentication settings and import a CA certificate.

3.4.6 System – Date & Time

Dashboard

Configured Devices

Route Presets

System

Network

Security

Date & Time

User

Maintenance

About

Date & Time

Time in Device

Date2000/01/03

Time07:35:55

Time Setting

Set Manually

Date2026/09/09

Hours15

Minutes25

Seconds21

Apply

Cancel

Description

Displays the current date and time. The display format and synchronization method can be configured. When [Time Setting] is set to Manual, the date and time can be configured manually.

3.4.7 System - User

 Dashboard  Configured Devices  Route Presets  System ▼  Network  Security  Date & Time  User  Maintenance  About	User User Name admin Current Password New Password Confirm Password Apply Cancel
Description	
Change User Password ■ Password: Supports 4–32 characters. ■ Support uppercase and lowercase letters and numbers. Special characters are not supported.	

3.4.8 Maintenance

Dashboard Configured Devices Route Presets System Maintenance About Maintenance 1 Click here to check the latest firmware. 2 Firmware Ver. OIE1.00 3 Firmware Update <button>Upgrade</button> 4 Configuration <button>Import</button> <button>Export</button> ☐ Include System Settings 5 Event Log <button>Export</button> 6 System Reboot <button>Reboot</button> 7 Factory Reset <button>Reset</button> ☐ Except the network settings ☒ Retain Routing Presets		
No	Item	Description
1	Click here to check the latest firmware	Click the link to visit the Lumens website, then enter the model name to check the latest firmware version information.
2	Firmware Ver.	Displays the firmware version currently installed on the device.
3	Firmware Update	Select the firmware file, then click [Upgrade] to update the firmware. Note The update process takes approximately 2–3 minutes. Do not operate the device or turn off the power during the update process, as this may cause the firmware update to fail.
4	Configuration	Imports or exports the system configuration file.
5	Event Log	Exports the system event log for troubleshooting or technical support.
6	System Reboot	Restarts the system.
7	Factory Reset	Restores the device to its factory default settings. ■ Except the network settings: When performing a factory reset, the current network settings will be retained. ■ Retain Routing Presets: When performing a factory reset, the current Routing Preset settings will be retained.

3.4.9 About

Dashboard Configured Devices Route Presets System Maintenance About	Lumens® Manufacturer : Lumens Digital Optics Inc. Model Name : OIP-N60C Firmware Ver. : OIE1.00 MAC Address : dc:e2:ac:04:42:78 Serial Number : 014A02242 Uptime : 1 day, 23:22 www.Mylumens.com Get Help 
Description	
Displays information about the OIP Controller, including the firmware version, serial number, and other device information. For technical support, scan the QR code in the lower-right corner to get assistance.	

Chapter 4 Troubleshooting

This chapter describes common issues that may occur when using the OIP Controller and provides recommended solutions.

If the issue persists, please contact your local distributor or service center for assistance.

No.	Issue	Troubleshooting
1.	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
2.	Can the Preset settings be modified?	The Preset of the OIP-N60C are imported from the Routing Switcher. To modify the Preset settings, make the changes in the Routing Switcher first, and then re-import them to the OIP-N60C.
3.	No image from the HDMI output	The HDMI output only displays the firmware version and IP address. No other information or video output is supported.
4.	No output from the USB output / Computer cannot detect the USB device	USB Type-C: For power supply only. No other functions are supported. USB Type-A: No functions are supported.
5.	Audio In/ Audio Out does not work	Audio In/ Audio Out are not supported.
6.	How can I log in if I forget the web interface username or password?	Please contact your Lumens distributor or service center for assistance.

Chapter 5 Safety Instructions

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

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 position 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 hanging rack you bought 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 the product during thunderstorms or if it is not going to be used for an extended period.
- 3.3 Do not place the 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.

■ 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.		WARNING This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.
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■ Battery Warning (for products or accessories with batteries)

General Safety Warnings:

- Do not heat or dispose of the battery in fire, as it may explode or leak.
- Avoid short-circuiting: Do not connect the positive and negative terminals directly or use metallic objects to connect them.
- Do not disassemble, crush, puncture, or modify the battery.
- Do not immerse the battery in water or any other liquids.

Usage and Storage Warnings:

- Do not store the battery in high-temperature environments (above 60°C) or in areas with high

humidity.

- Keep away from direct sunlight and heat sources.
- If not in use for a long period, remove the battery and store it in a cool, dry place.

Disposal and Recycling Warnings:

- Do not dispose of the battery in household waste; follow local regulations for proper disposal and recycling.
- If leakage occurs, avoid contact with the leaked substance and clean the affected area immediately.

Child Safety Warnings:

- This product contains a button battery. Ingestion of a button battery can cause severe internal burns within 2 hours and may result in death.
- If a battery is swallowed or if internal battery material is contacted, seek medical attention immediately.
- Store batteries (whether new or used) in a place that is out of reach of children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.

■ **FCC Warning**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Notice :

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

■ **IC Warning**

This digital apparatus does not exceed the Class A 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 A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

■ **EN55032 CE Warning**

Operation of this equipment in a residential environment could cause radio interference.

■ **BSMI CE Warning**

Warning: To avoid electromagnetic interference, this product should not be installed or used in residential environments.

When using PoE (Power over Ethernet), it is recommended to use a shielded Ethernet cable to prevent electromagnetic interference (EMI).

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