

Routing Switcher

User Manual - English



Version 1.5.1

Table of Contents

Chapter 1 System Requirements	2
1.1 Operating System Requirements.....	2
1.2 System Hardware Requirements.....	2
Chapter 2 How to Connect	3
Chapter 3 Operation Interface	4
3.1 Login Screen.....	4
3.2 Configuration.....	5
3.2.1 Source	5
3.2.2 Display.....	8
3.2.3 User.....	10
3.2.4 CTRL.....	11
3.3 Routing.....	12
3.3.1 Video	12
3.3.2 Audio	12
3.3.3 USB.....	13
3.3.4 Dante.....	14
3.4 Maintenance	14
3.5 About.....	15
Chapter 4 Troubleshooting	16
Copyright Information	17

Chapter 1 System Requirements

1.1 Operating System Requirements

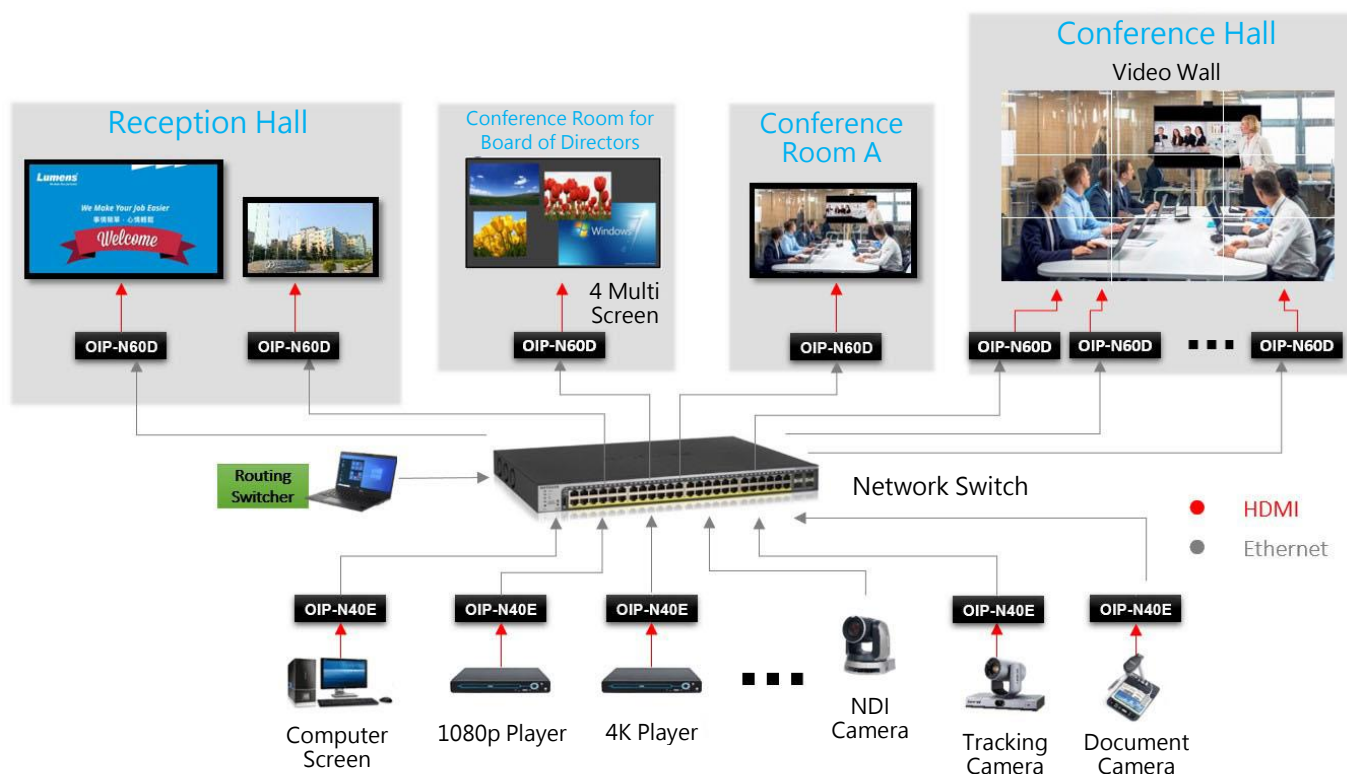
- Windows 10 (after ver. 1709)
- Windows 11

1.2 System Hardware Requirements

Item	Requirements
CPU	Intel® Core™ i3 10xxx or later, or equivalent AMD CPU
GPU	Integrated GPU(s) or Discrete Graphic(s)
Memory	16 GB of RAM
Free Disk Space	1 GB free disk space for installation
Ethernet	100 Mbps network card

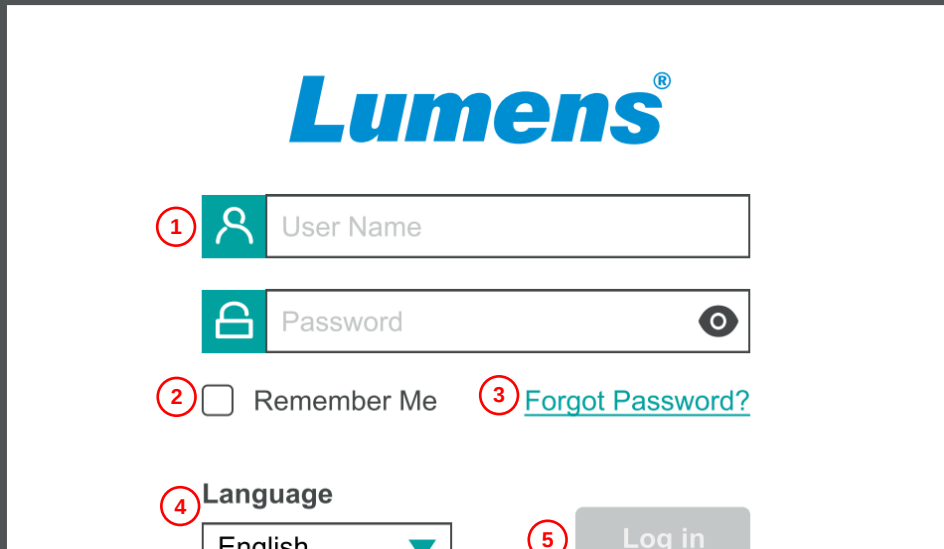
Chapter 2 How to Connect

Make sure the computer, OIP-N Encoder/Decoder, Recording System and VC cameras are connected in the same network segment.



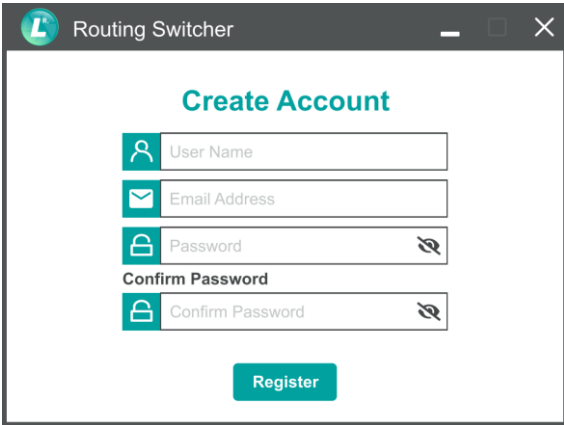
Chapter 3 Operation Interface

3.1 Login Screen



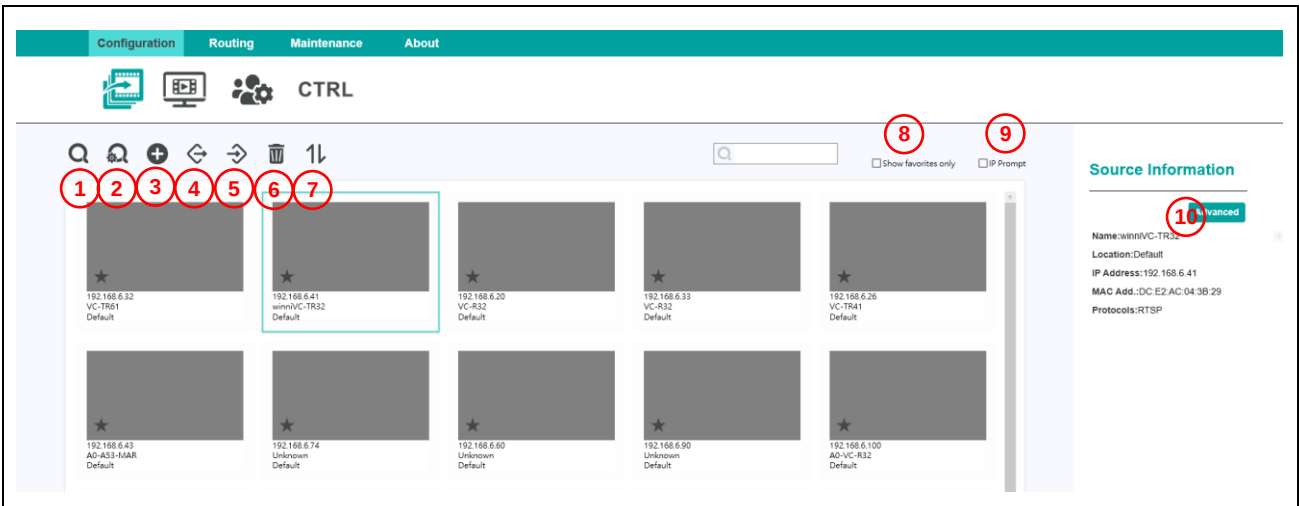
The screenshot shows the Lumens Routing Switcher login interface. At the top, the title bar reads "Routing Switcher" with standard window controls. The main content area features the "Lumens" logo in blue. Below the logo, the login form includes:

- 1** A red circle with the number 1 next to a green icon of a person, indicating the username input field.
- 2** A red circle with the number 2 next to a green icon of a padlock, indicating the password input field.
- 3** A red circle with the number 3 next to a blue link labeled "Forgot Password?".
- 4** A red circle with the number 4 next to the "Language" label, which is positioned above a dropdown menu currently set to "English".
- 5** A red circle with the number 5 next to a grey "Log in" button.

No	Item	Function Descriptions
1	Username/ Password	Please enter user account/password (default: admin/admin) Note For initial login, you need to enter a new account, password and email address to create account information 
2	Remember password	Save username and password. When you log in next time, there is no need to re-enter them
3	Forgot Password	Enter the email address you entered when registered to reset your password
4	Language	Language of the software - English is available
5	Login	Log in to the administrator screen on the website

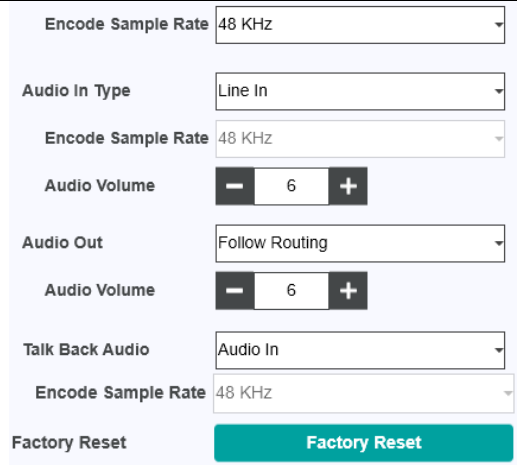
3.2 Configuration

3.2.1 Source

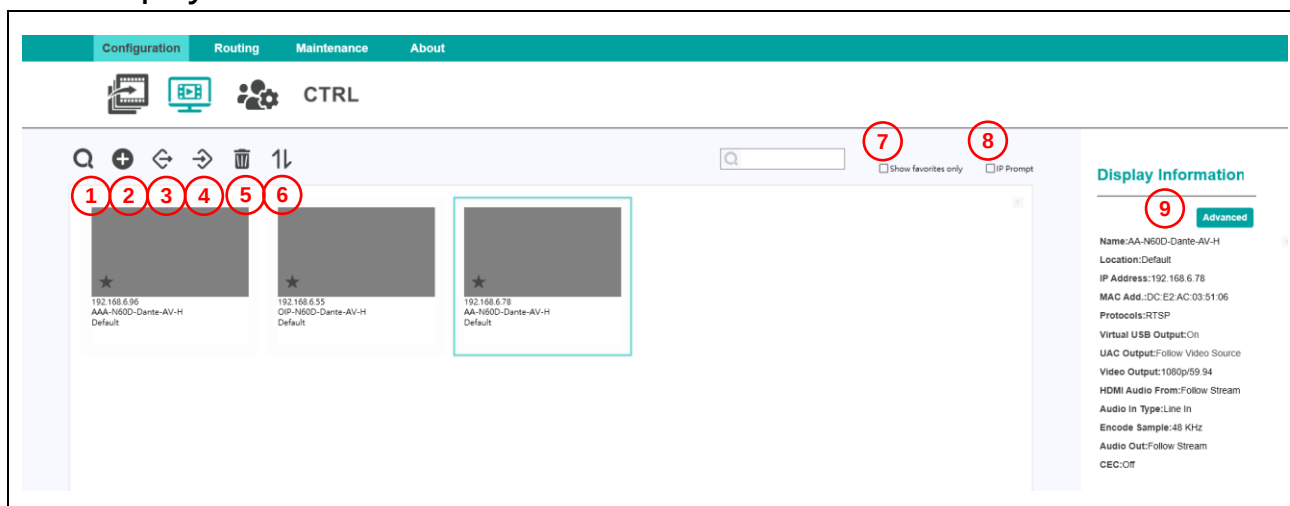


No	Item	Function Descriptions
1	Scan	Search for devices in the LAN; RTSP/NDI streaming supported By default, the normal mode can search for RTSP. If you need to search for NDI, please go to the Discovery Settings page to configure it
2	Discovery Settings	Search for the streaming in the LAN (multiple selections supported) Discovery Settings Discovery Mode ☒ Normal ☐ NDI Group Name Discovery Server ☐ Server IP Select NDI to configure the following settings: ▪ Group Name: Enter the group location Note ➤ The string can contain commas (,) to distinguish different groups ➤ The maximum string length is 127 characters ▪ Discovery Server: Enable/Disable Discovery Server ▪ Server IP: Enter the IP address
3	Add	Manually add the signal source Source Device Type OIP Device User Name Device Password Password Address(URL/IP) RTSP Authentication Off Account Password Password ▪ Device Type: Type of the source device (Supported devices: Lumens OIP Series, VC Series, and LC Series) ▪ Device User Name: Username of the source device

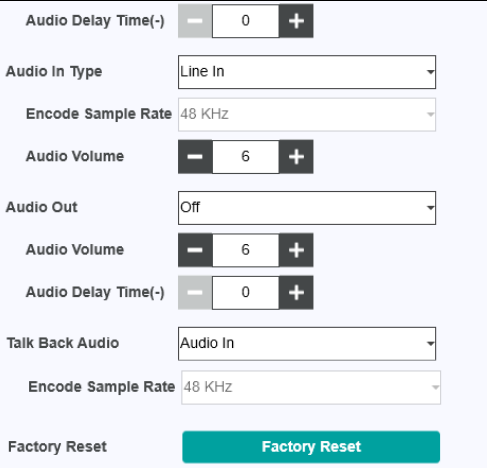
		▪ Device Password: Password of the source device ▪ Address (URL/IP): URL or IP address of the source device ▪ RTSP Authentication: By enabling, you can set the account/password Source Name Location Stream Protocol RTSP URL Authentication Off Account Password ▪ Name: Device Name ▪ Location: Device Location ▪ Device Type: Type of the source device ▪ Address (URL/IP): URL or IP address of the source device ▪ RTSP Authentication: By enabling, you can set the account/password
4	Export	Export configuration data, which can be imported into other computers
5	Import	Import configuration data, which can be imported from other computers
6	Delete	Delete the selected streaming, with support for deleting multiple selections at once
7	Sort by	Select the sorting method for the source list <i>Sort by Name or IP Address in ascending (↑) or descending (↓) order, or select Custom for a custom order</i>
8	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
9	IP Prompt	Show the last two digits of the IP address
10	Source Information	Clicking the preview screen will show the source information Click Advanced to open the window for advanced function setting Note The displayed items may vary depending on the model of the source Device User Name admin Device Password •••• RTSP Authentication Off Account Password Virtual USB Output On UAC Output Follow Routing Stream Audio HDMI/DP In

		 ▪ Device User Name: Username ▪ Device Password: Password ▪ RTSP Authentication: By enabling, you can set the account/password ▪ Virtual USB Output: Enable or disable the Virtual USB output function ➤ UAC Output: Select the output source for Virtual USB audio (UAC) (Follow Video Source / Follow Routing) ▪ Stream Audio: Select the audio source for the stream(HDMI/DP In / Audio In / USB Audio) ➤ Encode Sample Rate: Encode sample rate (48 KHz/ 44.1 KHz/ 16 KH) ▪ Audio in Type: Audio in Type (Line In/MIC In) ➤ Encode Sample Rate: Encode sample rate (48 KHz) ➤ Audio Volume: Adjust audio volume ▪ Audio Out Source(Follow Stream/Follow Routing) ➤ Audio Volume: Adjust audio volume ▪ Talk Back Audio: Select the audio input source for the Talk Back function(Audio In / USB Audio) ➤ Encode Sample Rate: Encode sample rate (48 KHz) ▪ Factory Reset: Reset all configurations to factory default settings
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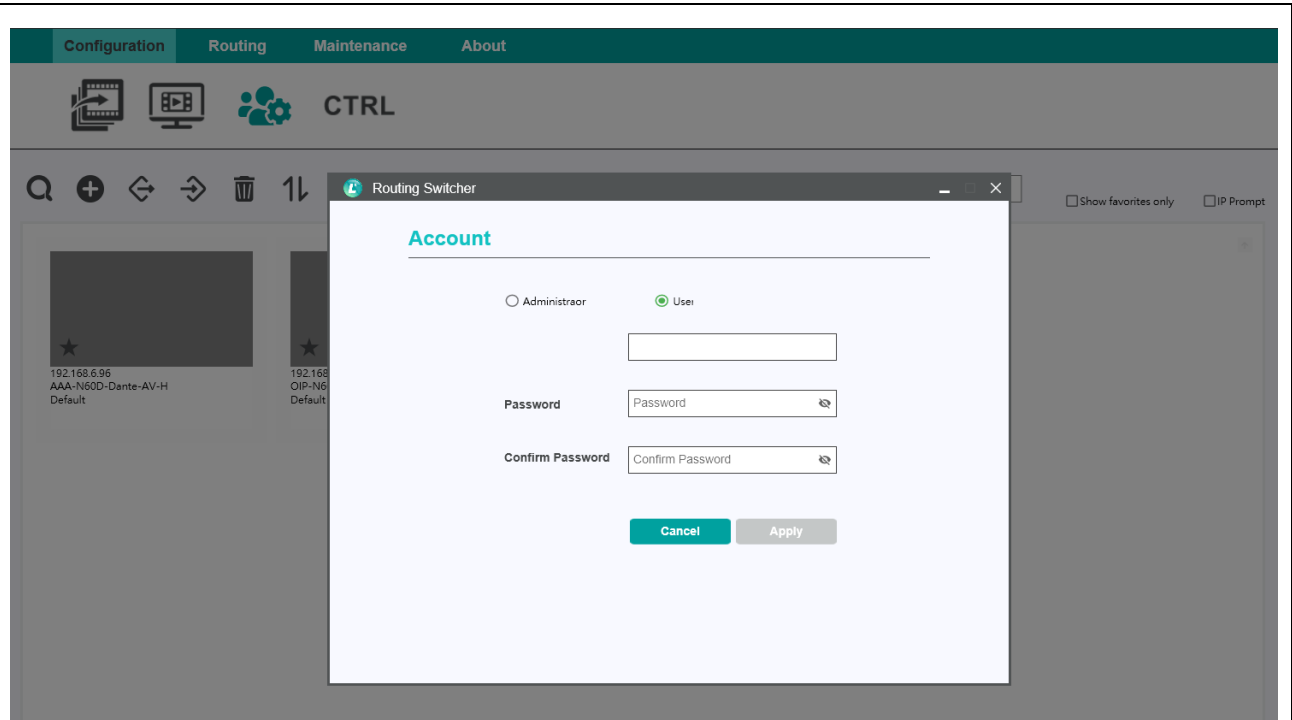
3.2.2 Display



No	Item	Function Descriptions
1	Scan	Search for devices in the LAN
2	Add	Manually add the display source
3	Export	Export configuration data, which can be imported into other computers
4	Import	Import configuration data, which can be imported from other computers
5	Delete	Delete the selected streaming, with support for deleting multiple selections at once
6	Sort by	Select the sorting method for the source list <i>Sort by Name or IP Address in ascending (↑) or descending (↓) order, or select Custom for a custom order</i>
7	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
8	IP Prompt	Show the last two digits of the IP address
9	Display Information	Clicking the preview screen will show the device information. Click Advanced to open the window for advanced function setting. Note The displayed items may vary depending on the model of the source Device User Name admin Device Password Virtual USB Output On UAC Output Follow Video Source Video Output 1080p/59.94 CEC Off HDMI Audio Out Off Audio Volume - 5 +

		 ▪ Device User Name: Username ▪ Device Password: Password ▪ Virtual USB Output: Enable or disable the Virtual USB output function ➤ UAC Output: Select the output source for Virtual USB audio (UAC) (Follow Video Source / Follow Routing) ▪ Video Output: Output Resolution ▪ CEC: Enable/Disable the CEC function ▪ HDMI Audio Out: Select the audio source for HDMI output (Follow Stream / Follow Routing) ➤ Audio Volume: Adjust audio volume ➤ Audio Delay Time: Set the audio signal delay time (0 ~ -500 ms) ▪ Audio in Type: Audio in Type (Line In/MIC In) ➤ Encode Sample Rate: Set Encode sample rate ➤ Audio Volume: Adjust audio volume ▪ Audio Out: Audio output source(Follow Stream/Follow Routing) ➤ Audio Volume: Adjust audio volume ➤ Audio Delay Time: Set the audio signal delay time (0 ~ -500 ms) ▪ Talk Back Audio: Select the audio input source for the Talk Back function(Audio In / USB Audio) ➤ Encode Sample Rate: Encode sample rate (48 KHz) ▪ Factory Reset: Reset all configurations to factory default settings
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3.2.3 User



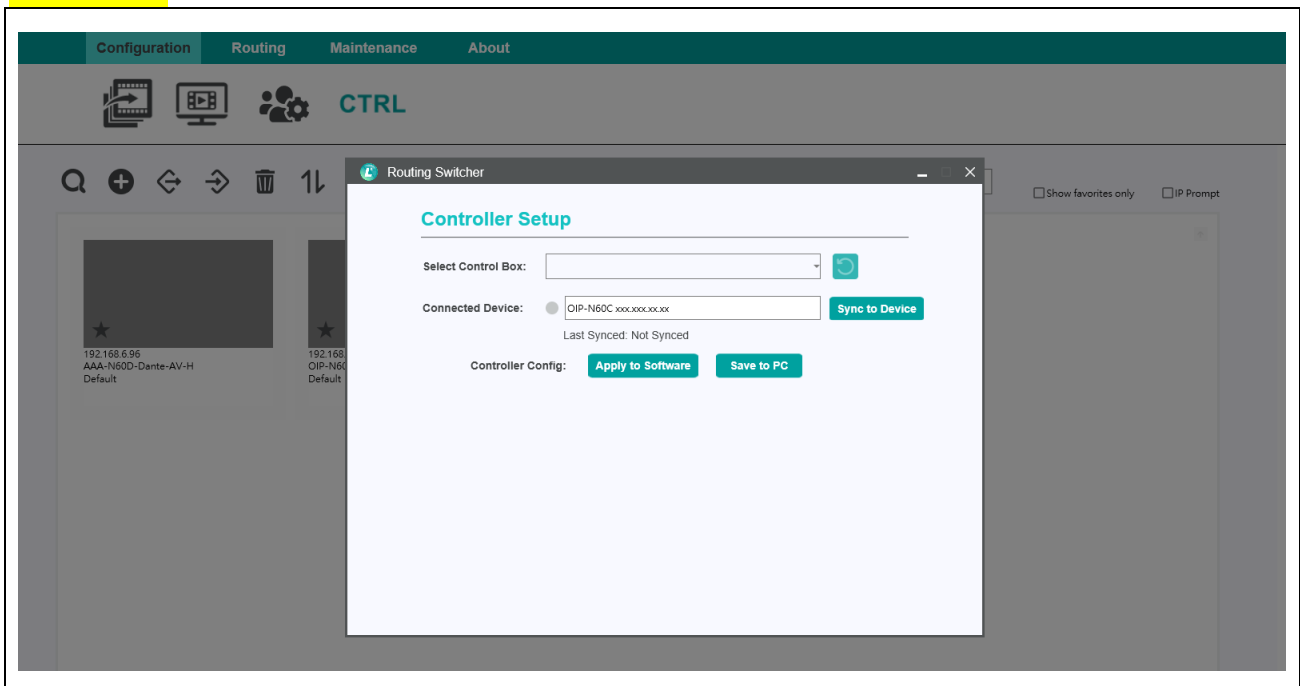
Function Descriptions

Display and modify the administrator/user account information

- Account: Supporting 6 ~ 30 characters
- Password: Supporting 8 ~ 32 characters
- User Permissions:

Function Items	Admin	User
Configuration	V	X
Routing	V	V
Maintenance	V	V

3.2.4 CTRL



Function Descriptions

Configure the Control Box for the Routing Switcher and synchronize it with the connected OIP-N60C device

- Select Control Box: Select the Control Box to be configured
- Refresh: Refresh the available Control Box list
- Connected Device: Display the connected OIP-N60C device and its IP address
- Sync to Device: Synchronize the Controller settings with the connected device
- Last Synced: Display the status of the most recent synchronization
- Apply to Software: Apply the Controller settings to the Routing Switcher software
- Save to PC: Save the Controller settings to the PC

3.3 Routing

3.3.1 Video

Configuration

Routing

Maintenance

About

192.168.6.32 VC-T861 Default

192.168.6.41 wimivc-TR32 Default

192.168.6.20 VC-R32 Default

192.168.6.96 AAA-N60D-Dante-AV-H Default

192.168.6.55 OIP-N60D-Dante-AV-H Default

192.168.6.78 AA-N60D-Dante-AV-H Default

1

2

3

4

5

Source

Display

Encoder Virtual USB Select

Save

Load

No	Item	Function Descriptions
1	Signal source list	Show the source list and the display list Select a signal source and drag it to the display list ➤ Encoder Virtual USB Select: Set the Encoder Virtual USB display function. The device will be displayed in the device list after this function is enabled
2	Sort by	Select the sorting method for the source list <i>Sort by Name or IP Address in ascending (↑) or descending (↓) order, or select Custom for a custom order</i>
3	Preset	Save or load Routing settings ➤ Preset range: 1–32 ➤ Save: Click Save to save the Routing settings ➤ Load: Click Load to load the Routing settings
4	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
5	IP Prompt	Show the last two digits of the IP address

3.3.2 Audio

Configuration

Routing

Maintenance

About

Follow

Routing

Talkback

Monitoring

192.168.6.95 OIP-N40E-TSDante

192.168.6.95 AAA-N60D-Dante-AV

192.168.6.78 AA-N60D-Dante-AV-H

1

2

3

4

5

Audio In

Audio Out

Follow HDMI

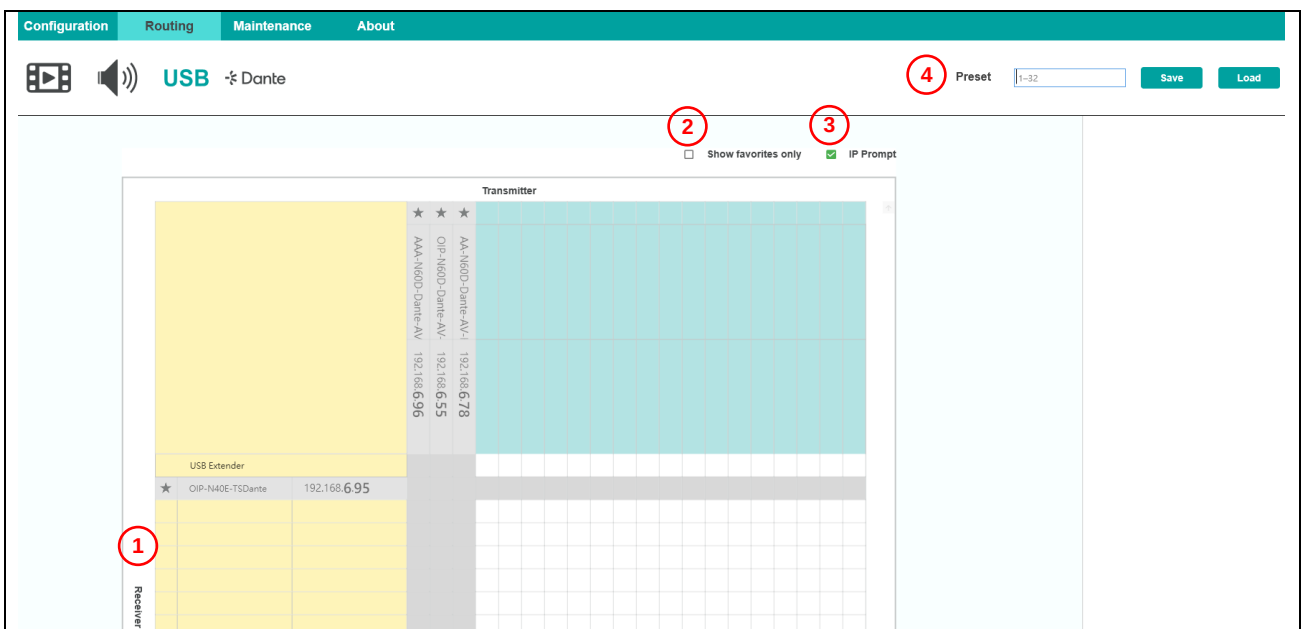
Monitoring

Save

Load

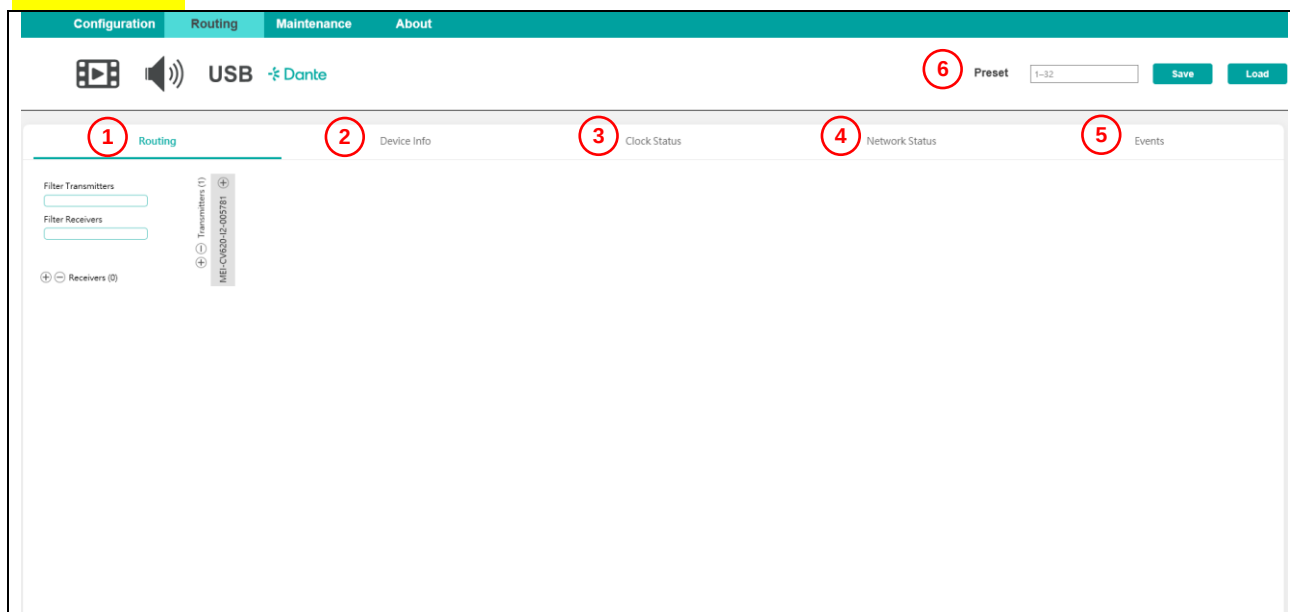
No	Item	Function Descriptions
1	Audio In / Audio Out	Display Audio In and Audio Out devices ● means Routing is configured; a blank means no Routing is configured
2	Follow / Routing / Talkback / Monitoring	Display the current audio routing type
3	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
4	IP Prompt	Show the last two digits of the IP address
5	Preset	Save or load Routing settings ➤ Preset range: 1–32 ➤ Save: Click Save to save the Routing settings ➤ Load: Click Load to load the Routing settings

3.3.3 USB



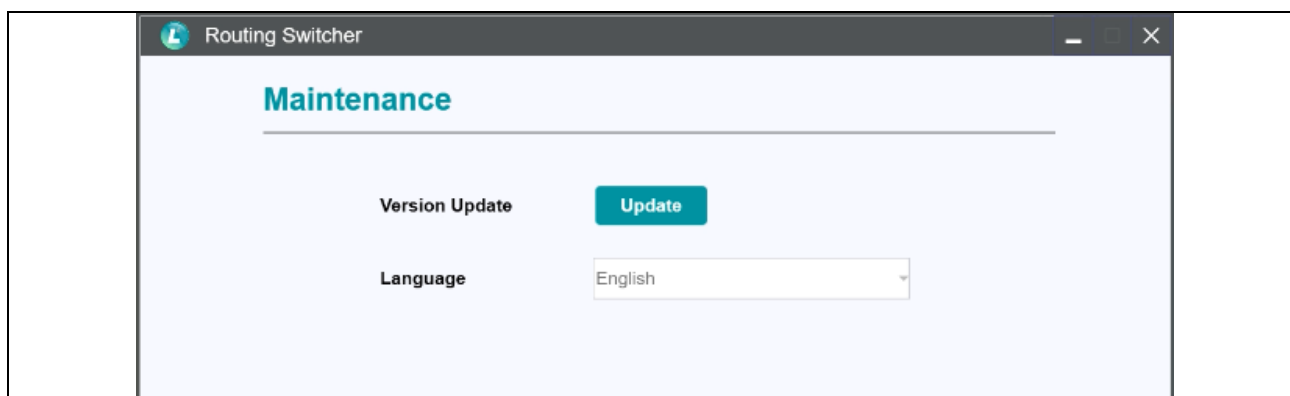
No	Item	Function Descriptions
1	USB Extender	To enable/disable the OIP-N60D USB Extender mode ● means On; a blank means Off
2	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
3	IP Prompt	Show the last two digits of the IP address
4	Preset	Save or load Routing settings ➤ Preset range: 1–32 ➤ Save: Click Save to save the Routing settings ➤ Load: Click Load to load the Routing settings

3.3.4 Dante



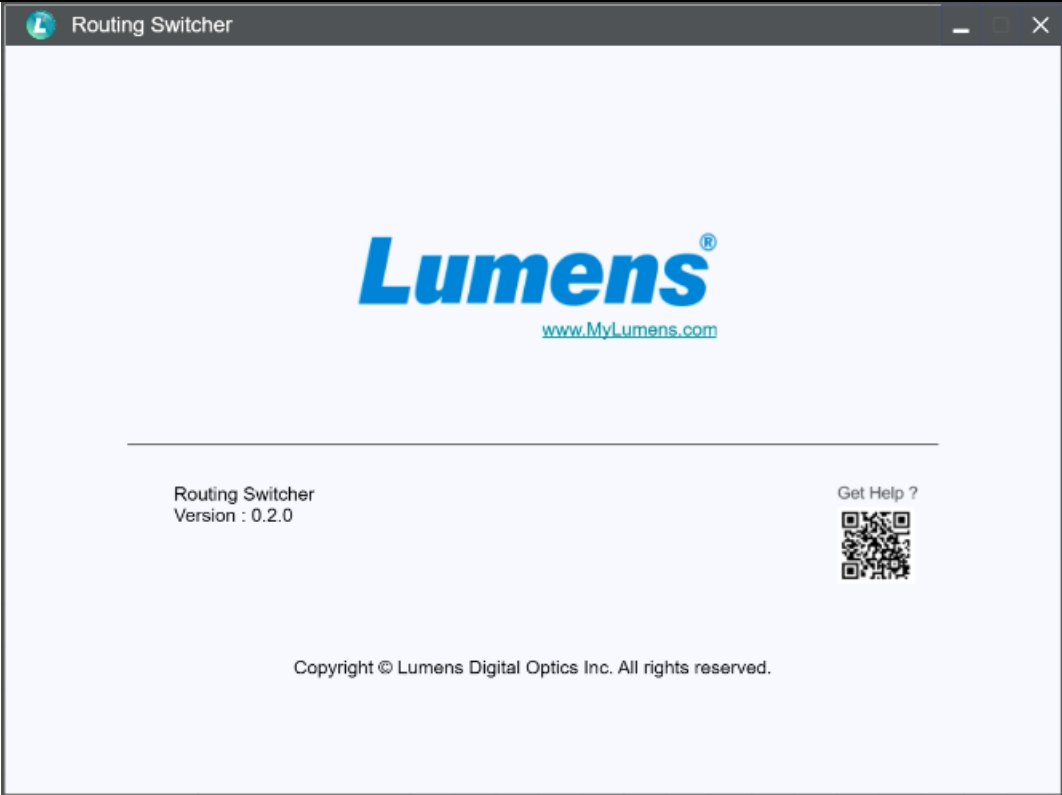
No	Item	Function Descriptions
1	Routing	Configure audio and video routing between Dante Transmitters and Receivers ➤ Search for Transmitter / Receiver devices ➤ View device names and Video / Audio Routing status
2	Device Info	Display Dante device information
3	Clock Status	Display the Dante network clock status
4	Network Status	Display the Dante network status
5	Events	Display Dante network events
6	Preset	Save or load Routing settings ➤ Preset range: 1–32 ➤ Save: Click Save to save the Routing settings ➤ Load: Click Load to load the Routing settings

3.4 Maintenance



No	Item	Function Descriptions
1	Version Update	Click [Update] to check the version and update it
2	Language	Language of the software - English is available

3.5 About


Function Descriptions
Display software version information. For technical support, please scan the QRcode at the bottom right.

Chapter 4 Troubleshooting

This chapter describes problems you may encounter while using Routing Switcher. 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.	Unable to search devices	Please make sure that the computer and the device are connected in the same network segment. (Refer to Chapter 2 How to Connect)
2.	The operating steps in the manual are not consistent with the software operation	The software operation may be different from the description in the manual due to functional improvement. Please make sure you've updated your software to the latest version. ■ For the latest version, please go to the Lumens official website > Service Support > Download Area. https://www.MyLumens.com/support
3.	Forgot username	The username cannot be retrieved using the Forgot Password function. Reinstall the software and create a new account.
4.	Forgot password	Click [Forgot Password?] on the login screen and enter the registered email address. The system will send an email containing a temporary password. If you do not receive the email, check the Spam or Junk Mail folder. After signing in with the temporary password, change the password on the Account page. (Refer to 3.2.3 User)
5.	Forgot registered email address	The Forgot Password function cannot be used without the registered email address. Reinstall the software and create a new account.

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