

LogiCue Net System Manual

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Complete System Reference — All Three Manual Pages Consolidated

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Safe Use of the LogiCue Net System

For safety and best performance of the LogiCue Net System, please follow these guidelines:

- Only use the controller with the power supply provided by the manufacturer.
- Use ethernet switches that meet IEEE 802.3 standards.
- Do not use near water.
- Do not use with damaged cabling.
- Do not attempt to repair or modify these devices. Contact us for support.
- A cue light system should never be used in any scenario where safety is critical or where failure or improper operation could result in injury or property damage.
- The LogiCue Net System is an industrial product, not a toy. It contains small parts that may be harmful to children if swallowed. Keep this product away from children.

Setting Up Your LogiCue Net System

LCN12 Controller — Hardware Overview

The LogiCue Net LCN12 Controller comes with side panels that allow it to sit on a flat surface at a comfortable angle. The side panels can be removed for mounting in a standard 19-inch (482 mm) equipment rack.

The included power supply accepts 100–240V AC input and provides 1A at 18V DC output, with a Type A input plug and a 5.5 mm output plug (standard for the United States). If you require a plug for another country, notify us or let your salesperson know upon ordering.

Wiring the Controller

1. Plug the 18V DC power supply into the power input on the rear of the LCN12 Controller.
2. Plug an ethernet cable into the LogiCue Net Output on the rear. This connector is designed for Ethercon-style cables but will accept any standard ethernet cable.
3. Plug the other end of the ethernet cable into a port on your ethernet switch.



Wiring Diagram 1 — LCN12 Controller connected to a dedicated POE ethernet switch, distributing signal to twelve QL2 cue lights.

Switch Requirements

The ethernet switch can be managed or unmanaged. If the LogiCue Net System is on its own network, an unmanaged switch is fine.

Important: The switch the LCN12 controller is plugged into does NOT need to provide Power over Ethernet (POE). However, QL2 cue lights DO require a POE switch. The controller and cue lights can share the same switch or use separate switches — the signal can pass through multiple switches with no noticeable delay.

Wiring Options — Extended Range and Shared Networks

The maximum cable length between a switch and the controller (or a switch and a cue light) is 328 feet (100 meters). For longer runs, daisy-chain multiple ethernet switches. Fiber optic cable between switches can extend the range up to approximately 62 miles (100 km).

The LCN12 Controller can also share a network switch with lighting (e.g., Dante audio, QSYS, or other networked AV equipment). If interference occurs, placing the LogiCue Net System on its own VLAN (Virtual Local Area Network) is recommended.



Wiring Diagram 2 — LCN12 Controller sharing a network with a Lighting Console and Lighting Nodes via separate switches on the same infrastructure.

Operation of the LCN12 Controller and QLN2 Cue Light

Startup

1. Plug the QLN2 cue lights into a POE switch. They should display "Waiting for signal", confirming they are receiving power.
2. Turn the LCN12 Controller on using the power switch in the top right corner. The green LED will illuminate.
3. Allow up to 30 seconds for the controller and cue lights to boot up and complete their automatic check-in procedure.
4. As each cue light checks in, the LED above its channel on the controller will turn green.

All cue lights are addressed to channel 1 when tested at the factory. Until you re-address them, you may only see channel 1 illuminate on the controller.

Controller Buttons

Action	Result
Press "Standby" (red) once	Cue light turns on; controller LED matches cue light color
Press "Standby" (red) twice	Cue light flashes on/off; pressing either button on the cue light stops the flash (Acknowledge feature)
Press "Go" on an active single-color channel	Turns that cue light off at both the controller and the cue light
Press "Main Go"	Advances all cue lights from Standby to Go state
Press "Main Clear"	Clears all cue lights to their Clear/off state

Color Modes

There are six single-color modes. In these modes, the cue light turns on in Standby and off in Go:

- Red
- Blue
- Green
- Amber
- Teal
- Pink

There are also two multi-color modes:

Mode	Standby State	Go State	Clear State
Red / Blue / Green	Red	Green	Blue (always on)
Red / Blue / Off	Red	Green	Off

Example use of Red/Blue/Green mode: Direct an actor to stand by the blue cue light. When it turns red, they pick up their prop and get ready to enter. When it turns green, they enter.



The six single-color modes of the QLN2 Cue Light: Red, Blue, Green, Amber, Teal, and Pink.

How to Change the Address on Your Cue Lights

Each cue light can be assigned its own address so it can be controlled independently. The address can be changed once the cue lights are plugged in and working. A check mark icon on the cue light's display confirms it is checked in and functioning.

Steps

1. Put all cue lights into Clear mode: press "Standby" on all channels, then press "Main Go", then press "Main Clear".
2. Hold the button closest to the connector on the cue light until the countdown reaches zero. The current address will appear on the screen.
3. Press the right button (closest to the connector) to advance to the next address.
4. Once you reach the desired address, wait 5 seconds — the address will be recorded and the cue light will restart.
5. Restart the controller so it recognizes the new address.

How to Change the Color Mode of a Cue Light

Cue lights can operate in multiple color modes. To change the color mode:

1. Unplug the ethernet cable from the cue light.
2. Hold down the right button (closest to the connector) and, while holding it, plug the cable back into the cue light.
3. The color mode will appear on the display and the LEDs will illuminate in the associated color.
4. Press the right button to cycle through the available color modes.
5. Once you reach the desired mode, it is instantly recorded — unplug and re-plug the cue light.
6. Restart the controller to update the color setting. You may also need to toggle the front power switch off and back on.

Advanced Configuration of the LogiCue Net System

LCN12 Brightness Setting

In a dark control booth or backstage, you may find the default brightness setting too bright. To change it:

- Turn off the controller.
- Hold the "Main Go" button down and turn the power on.
- Twelve brightness options will appear across the twelve channels.
- Press the "Standby" button under the desired brightness level.
- Turn the controller off and back on — it will restart at the new brightness.

LC12 IP Address Ranges and Groups

You may need to change the IP addresses of your LogiCue Net System to avoid conflicts with lighting, sound, or other network equipment. There are four pre-programmed IP address ranges:

Range	IP Address Pattern
Range 1	10.201.1.X
Range 2	10.50.1.X
Range 3	172.30.1.X
Range 4	192.168.1.X

For LC12 Controllers, the group numbers (the X value) are:

Group	Number (X value)
Group 1	21
Group 2	22
Group 3	23
Group 4	24

Example: An LC12 Controller in Range 1, Group 1 = IP address 10.201.1.21

Changing the IP Address Range (LC12)

Unplug the ethernet cable (keep 18V power connected). Hold the "Go" button under channel 11. The LEDs above channels 1–4 will light up — three blue, one white. The white channel represents the current range. Press "Standby" under the desired range channel. Once that LED turns white, the range is recorded. Reconnect the ethernet cable.

Changing the IP Address Group (LC12)

Unplug the ethernet cable (keep 18V power connected). Hold the "Go" button under channel 12. The LEDs above channels 1–4 will light up — three pink, one white. The white channel represents the

current group. Press "Standby" under the desired group channel. Once that LED turns white, the group is recorded. Reconnect the ethernet cable.

LC12 Software Updates

The LCN12 has a built-in webserver for uploading software updates, accessible only in Configuration Mode to prevent accidental changes during a show.

Equipment Needed

- Computer (PC or Mac) with ethernet port or USB-to-ethernet adapter
- Web browser
- Ethernet switch (POE not required)
- LCN12 controller and power supply
- Two ethernet cables

Computer Network Settings

Setting	Value
IP Assignment	Manual (DHCP Off)
IPv4 Address	10.201.1.2
Subnet Mask	255.255.0.0
IPv4 Gateway	10.201.1.1
Preferred DNS	10.201.1.0
DNS over HTTPS	Off

The most critical settings are the IPv4 address and subnet mask. Other settings may not be relevant to connecting with the LCN12.

Update Steps

1. Hold the Main "Clear" button while turning the power switch on. All LEDs will turn blue, indicating Configuration Mode.
2. Open a browser and navigate to: 10.201.1.5
3. The welcome page shows the current software version and a link to the download page.
4. Click "Choose File", select the new software file, click "Open", then click "Update".

QLN2 Cue Light Configuration

As with the LC12 controller, it may be necessary to change the IP address range or group for your QLN2 Cue Lights to work correctly on your network.

QLN2 IP Address Ranges and Groups

The four pre-programmed IP address ranges for QLN2 Cue Lights are:

Range	IP Address Pattern
Range 1	10.201.2.X
Range 2	10.50.2.X
Range 3	172.30.2.X
Range 4	192.168.2.X

For Cue Lights, the group numbers correspond to the LogiCue address:

Group	IP Address Range (X values)
Group 1	21 to 32
Group 2	41 to 52
Group 3	61 to 72
Group 4	81 to 92

Examples: • Range 1, Group 1, address 1 → 10.201.2.21 • Range 1, Group 1, address 12 → 10.201.2.32

Changing the IP Address Range (QLN2)

1. Unplug the ethernet cable from the cue light.
2. Hold the left button while plugging the cue light in.
3. After a few seconds, "Menu" appears, followed by the operating mode.
4. Tap the left button to navigate through the menu options (operating mode, IP range, IP group, firmware update).
5. Stop at the IP address range option.
6. Press and hold the right button (closest to connector). After the countdown, tap right to cycle through the four ranges.
7. Stop at the desired range and wait approximately 8 seconds — it will be recorded automatically.

Changing the IP Address Group (QLN2)

The process is identical to changing the IP range — navigate to the IP group option in the menu, hold the right button through the countdown, tap to select the desired group, then wait 8 seconds for it to record.

⚠ After changing the IP range or group, reboot the ethernet switch so that network traffic can be redirected properly.

QLN2 Operating Modes

The LogiCue Net System supports multiple controllers on the same network simultaneously (using different IP groups or ranges). This also makes it possible for a cue light to signal another cue light.

When a cue light is placed in "Cue Light as a Controller" mode, it becomes a one-channel controller — useful for signaling an actor or crew member independently from the stage manager.

Requirements for Cue-Light-as-Controller Mode

- Both cue lights in the pair must be on a different IP range or group than any other controllers on the network.
- Both cue lights in the pair must be on the same IP range and group as each other.
- The controlling cue light must be set to "Cue Light as a Controller" mode.
- The receiving cue light must be on LogiCue channel 1, regardless of IP range or group.
- Multiple cue-light-controller pairs can share the same network, but each pair needs its own IP range or group.

Switching Operating Modes

1. Hold the left button while plugging in the cable.
2. Tap the left button to navigate to the operating mode option in the menu.
3. Press and hold the right button. After the 5-second countdown, tap right to toggle between the two modes.
4. Wait 8 seconds — the mode is recorded automatically.

Controller Mode Button Functions

Button Action	Function
Left button — single press	Standby: light color matches cue light color mode
Left button — double press	Flashes the cue light (and controller indicator)
Right button — single press	Go: advances cue light state

QLN2 Software Updates

The QLN2 has a built-in webserver for uploading firmware updates, accessible only in Software Update Mode to prevent accidental changes during a show.

Equipment Needed

- Computer (PC or Mac) with ethernet port or USB-to-ethernet adapter
- Web browser
- POE ethernet switch (required to power the cue light)
- QLN2 Cue Light

- Two ethernet cables

Computer Network Settings

Setting	Value
IP Assignment	Manual (DHCP Off)
IPv4 Address	10.201.1.2
Subnet Mask	255.255.0.0
IPv4 Gateway	10.201.1.1
Preferred DNS	10.201.1.0
DNS over HTTPS	Off

The most critical settings are the IPv4 address and subnet mask.

Update Steps

1. Hold the left button (furthest from connector) while plugging in the cable.
2. Tap the left button to navigate to "Firmware Update" and the version number.
3. Press and hold the right button until the 5-second countdown completes. Display shows "Update Mode".
4. Open a browser and navigate to: 10.201.2.5
5. Follow the on-screen prompts to upload the new firmware.
6. Unplug the cue light once the update is complete.
7. When updating multiple cue lights, refresh your browser each time before connecting the next unit.