

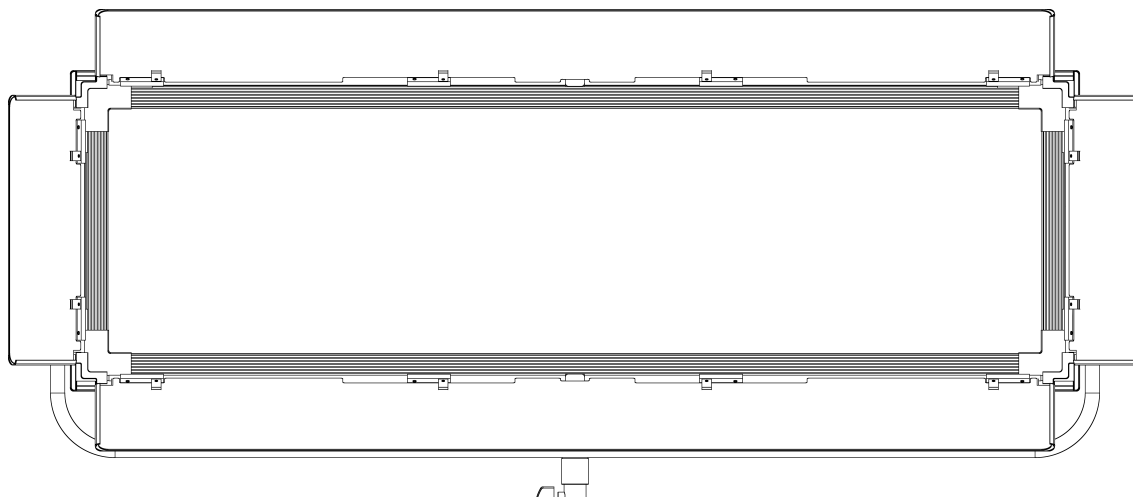


USER MANUAL

LBX30-POE

1×3 Bi-Color Studio Soft Panel LED Light

ikan
LYRA POE



PoE++ • Art-Net & sACN DMX over IP

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1 Introduction

1.1 Overview

The Ikan Lyra POE series are lighting solutions designed to be effortlessly installed in studios with limited ceiling clearance. PoE+ lights are easy to install as they can be quickly and easily connected using a single Ethernet cable. Equipped with high-CRI LED chips behind a soft diffusion panel, the LBX30-POE emits a gentle, wraparound light with a clean, sharp shadow. With a color temperature range of **2700K to 6500K**, it is highly versatile and ideal for any lighting production. The wide **110-degree beam angle** and extra-wide 1×3 emitting surface deliver broad, even coverage, while the sturdy yoke with tension knobs allows for easy adjustment and secure placement at any angle.

1.2 Key Features

- PoE++ (IEEE 802.3bt Type 4) compatibility — dual ports
- LBX30-POE: 170W power output / consumption
- Bi-color, adjustable 2700K–6500K with consistent output across the range
- Intensity control, 0–100% in 1% increments
- Art-Net & sACN DMX over IP, plus DMX512 (5-Pin XLR)
- 110° beam angle, 12 × 36 in illumination area

1.3 Package Contents

- LBX30-POE LED Light Fixture
- Yoke (installed)
- Combo Pin (Baby 5/8" & Junior 1-1/8")
- Power Supply
- Power Cord
- Safety Wire
- User Manual

2 Safety Information

2.1 General Safety Guidelines

- Read and follow all instructions in this manual.
- Keep the light away from moisture and extreme temperatures.
- Do not attempt to disassemble the light; there are no user-serviceable parts inside.
- Keep the light away from flammable materials during operation.

2.2 Electrical Safety

- **Note:** Check minimal cable specifications in section 2.5.
- Ensure that the power source complies with local electrical standards.
- If a cable is damaged, replace it immediately.

2.3 Maintenance and Cleaning

- Disconnect the light from the power source before cleaning.
- Use a soft, dry cloth; do not use solvents or abrasive materials.

2.4 Environmental Considerations

- Dispose of the light and packaging in accordance with local regulations.
- Do not expose the light to rain or wet conditions.

2.5 Compatible Cables

- Use only Category 6 (Cat 6) or higher Ethernet cables.
- Choose cables with a minimum American Wire Gauge (AWG) of 24.
- Shielded cables are recommended to minimize electromagnetic interference.

3 Specifications

3.1 LBX30-POE Specifications

Fixture Type	Bi-Color Soft Panel (1×3)
Beam Angle	110°
Color Temperature	Bi-Color 2700K – 6500K
CRI / TLCI	98 / 99
Power Input	110–220VAC
Operating Voltage	48VDC
Max Power Consumption	170W
PoE Standard	IEEE 802.3bt Type 4 – dual PoE++ ports
DMX	Art-Net, sACN, DMX512 (5-Pin XLR)
Input / Output Ports	2× RJ45, USB Type A, DMX512 In & Out (5-Pin XLR)
Dimming Range	0–100% (1% increments)
Cooling	Active
LED Lifetime	70,000 hours
Display	LCD Screen
Operating Temperature	10 – 110 °F
Power Supply	Input 100–240VAC; Output 48VDC @5.2A 250W (included)

3.2 Dimensions

Fixture Dimensions	45 × 18 × 5 in / 114.3 × 45.7 × 12.7 cm
Fixture Weight	20 lbs / 9.07 kg
Illumination Area	12 × 36 in / 31 × 91 cm
Shipping Weight	30 lb / 13.6 kg
Shipping Dimensions	48 × 22 × 8 in / 121.9 × 55.9 × 20.3 cm

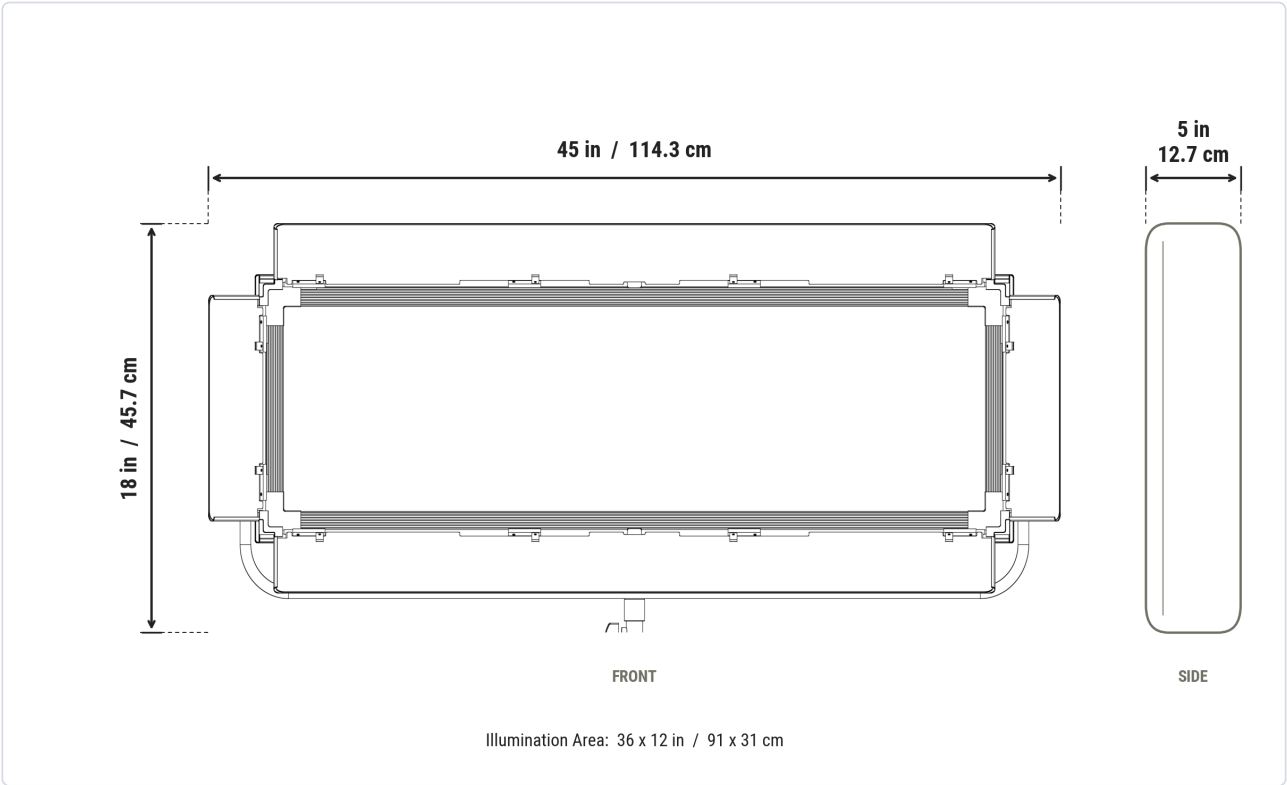


Figure 3.1 – LBX30-POE fixture dimensions

4 Getting Started

4.1 Unpacking

- Carefully unpack the light and its accessories. Ensure that all items listed in the Package Contents are present.

4.2 Mounting Options

- Use the included combo pin to attach the light to a light stand or other mounting surface. The yoke supports standard stage clamps.

4.3 Powering On and Off

- Connect a Cat6 (24 AWG or better) cable to the light and a compatible PoE++ power source.
- Flip the power switch to the on position.
- The light will take up to 5 seconds to boot up. The readout screen flashing white is a normal indication that the light is turning on.

4.4 Basic Controls

- The yellow circular knob serves as both the enter button and a scroll wheel to adjust values.
- After adjusting to the values you want, confirm by pressing the back button and returning to the previous menu.

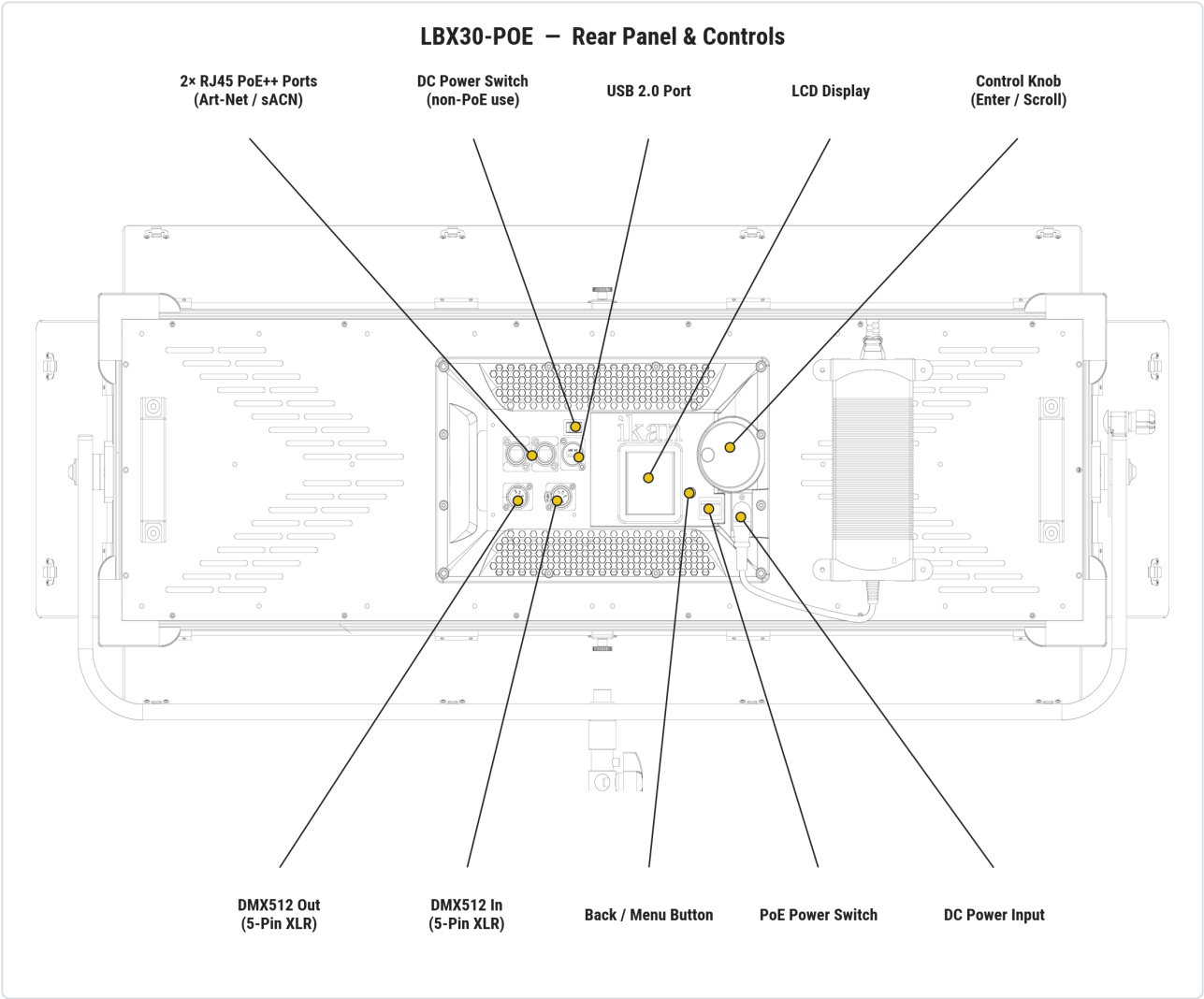


Figure 4.1 – Rear panel connections and controls

5 PoE Information

5.1 Understanding Power over Ethernet (PoE)

- PoE allows for the simultaneous transmission of power and data over a single Ethernet cable, simplifying installation and reducing cable clutter.

5.2 802.3bt Type 4 Compatibility

- Ensure that the PoE source complies with the IEEE 802.3bt Type 4 standard to provide the necessary power for the LBX30-POE.

Note: The LBX30-POE draws 170W across **two** PoE++ ports. Connect both ports to a Type 4 (90W/port) PoE++ switch and account for both ports per fixture when planning switch capacity (see section 8).

5.3 Connecting to a PoE Source

- Connect a Cat6 or higher Ethernet cable to the light and a compatible PoE++ power source. Verify the connection is secure.

5.4 Troubleshooting PoE Issues

- If power issues arise, check the PoE source and cable for faults. Contact customer support if problems persist.

6 Operation

6.1 Intensity

- Adjust the brightness to achieve the desired illumination level. The light can be set from 0–100%, increasing and decreasing by increments of 1%.

6.2 Color Temperature (CCT)

- Adjust the color temperature between **2700K** and **6500K**.

6.3 DMX Address

- DMX512 channel selection from 1 to 511. Each light requires two channels for use.
- The first channel is intensity and the second is color temperature. DMX control has priority.
- When the light receives a DMX signal, a green dot will appear indicating that DMX signal is received.
- **Note:** Local control is not available when DMX is connected.

6.4 Net State (Art-Net, sACN, IP Address)

- Turns on the use of DMX-over-IP protocols Art-Net or sACN. Once one is selected, set the following:
- **IP Mode:** DHCP or Static.
- **Universe:** Select the address for Art-Net or sACN.
- **IP:** IP address of the light (e.g. 192.168.x.x, 172.x.x.x, or 10.x.x.x).

6.5 Firmware Updates

- Check the manufacturer's website for firmware updates to ensure optimal performance. Firmware updating instructions are provided with the update files.

6.6 Web Interface

- The fixture includes a web-based Graphical User Interface (GUI) for adjusting DMX address, Art-Net and sACN settings, and Ethernet configuration (IP address, Net Mask, Gateway).
- Access the web interface by entering the IP address shown on the back of the light into a browser on the same network – for example, 192.168.0.50.

ikan POE LIGHT

System

ArtNet & sACN

Ethernet

Upgrade

ArtNet Configuration & sACN Settings

DMX Address (1-511):
5

Universe of ArtNet (0-32767) :
2

Output Source :
Art-Net

Universe of sACN (1-63999) :
1

Load Save

Art-Net & sACN Settings

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System

ArtNet & sACN

Ethernet

Upgrade

IP Address Configuration

IP Mode :
DHCP

IP Address :
192.168.1.249

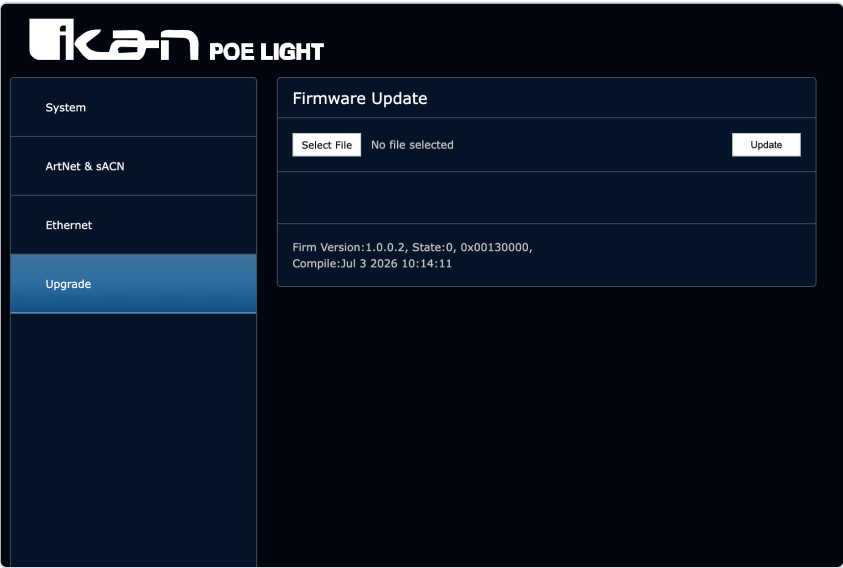
Net Mask :
255.255.255.0

Gate Way :
192.168.1.1

Http Port :
80

Load Save

Ethernet / IP Configuration



Firmware Update

Figure 6.1 – Web interface screens

7 Maintenance

7.1 Cleaning and Care

- Clean the light with a soft, dry cloth. Avoid using solvents or abrasive materials.

7.2 Storage Guidelines

- Store the light in a dry, cool environment. Disconnect from power during extended periods of non-use.

8 Troubleshooting & FAQ

8.1 Power Issues

- Check the PoE source, cable, and connections. Ensure proper compatibility with the 802.3bt Type 4 standard on the PoE switch.

8.2 DMX-over-IP Controls Not Working

- Check that the lights are in the correct universe in both the controller and the light fixture.

Frequently Asked Questions

“What are the advantages of PoE++ lights over traditional versions?”

Power grid-independent installation: PoE++ lights do not require new power outlets in the ceiling grid, saving the time and cost of electrical drawings, permits, and electricians to install new outlets.

Simplified power management & enhanced flexibility: A single Ethernet cable simultaneously powers and DMX-controls the light, reducing cable clutter. With drop-ceiling mounts, Cat6 cables route discreetly above the ceiling panels – unlike traditional AC cables that must be installed below the tiles per code. Fixtures can be repositioned without the constraints of AC outlets or a traditional DMX daisy chain. Requires Cat6 24 AWG shielded cable or better.

“What kind of PoE switch will I need?”

The lights require an 802.3bt Type 4 switch with a minimum of 90W per port. Netgear’s 90W AV PoE++ switches have been fully tested and certified compatible with all Ikan PoE++ lights: the **IKM4250-10G2XF-PoE++** (8-port) and **IKM4250-26G4F-PoE++** (24-port).

“How many LBX30-POE lights can I put on each switch?”

Each LBX30-POE draws 170W across **2 PoE++ ports**, so plan for both the switch’s power budget and its available port count.

Netgear PoE++ Switch	PoE++ Ports	Power Budget	Max LBX30-POE
IKM4250-10G2XF-PoE++ (8-port)	8	720W	4 (680W • 8 ports)
IKM4250-26G4F-PoE++ (24-port)	24	1,440W	8 (1,360W • 16 ports)

Example: $8 \times \text{LBX30-POE} = 170\text{W} \times 8 = 1,360\text{W}$, which is within the 24-port switch’s 1,440W budget and uses 16 of its 24 PoE++ ports.

“If I have both DMX512 (5-Pin) and Art-Net / sACN (RJ45) plugged in, which has priority?”

DMX512 would have priority.

“If both a power adapter and PoE++ are plugged in, will it damage the light?”

No. The light will automatically use the power adapter, as it has priority over PoE++.

9 Warranty & Support

9.1 Support

For assistance, contact Ikan support: support@ikancorp.com

9.2 Conditions of Warranty Service

Free service for 1 year from the day of purchase if the problem is caused by manufacturing defects. Components and maintenance service fees will be charged if the warranty period has expired.

Free service will NOT be provided in the following situations (even if within the warranty period):

- Damage caused by abuse or misuse, dismantling, or changes to the product not made by the company.
- Damage caused by natural disaster, abnormal voltage, or environmental factors.



Learn more at www.ikancorp.com

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