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1. Introduction

1.1 Overview

The Ikan LCX10-POE is a cutting-edge 1×1 soft panel LED light that is simultaneously powered (via PoE++) and DMX controlled (via ArtNet or sACN) through a single Cat6 RJ45 Ethernet cable. For seamless integration into Q-SYS ecosystems, the LCX10-POE is compatible with the Q-SYS Designer Plugin, offering enhanced control and efficiency alongside ArtNet and sACN protocols. Boasting high CRI LED chips and a soft panel, the LCX10-POE emits a gentle, wraparound light that creates artifact-free shadows. Its comprehensive RGBWA color system delivers full spectrum lighting capabilities, from vibrant saturated colors to precise white balance control, making it an ideal choice for creative lighting productions and professional applications.

1.2 Key Features

- PoE++ (802.3bt Type 4) Compatibility
- LCX10-POE: 85W Power Output / Consumption
- RGBWA Full Color Control
- Color Temperature Adjustable
- Intensity Control
- Art-Net & sACN DMX over IP

1.3 Package Contents

- LCX10-POE LED Light Fixture
- Yoke (Installed)
- Barn Doors (Installed)
- Combo Pin
- 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 specs in section 2.5.
- Ensure that the power source complies with local electrical standards.
- If the 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 for cleaning; 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 LCX10-POE Specifications

Power Output	85W
Color Temp Range (White)	2700K to 6500K
Color Rendering Index (CRI)	>97

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 included combo pin to attach the light to a light stand or other mounting surfaces.

4.3 Powering On and Off

- Connect the Cat6 (24AWG or better) cable to the light and a compatible PoE++ power source.
- Flip the 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 previous options.

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

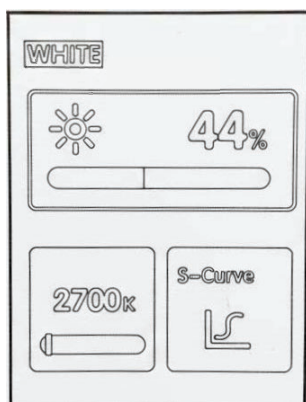
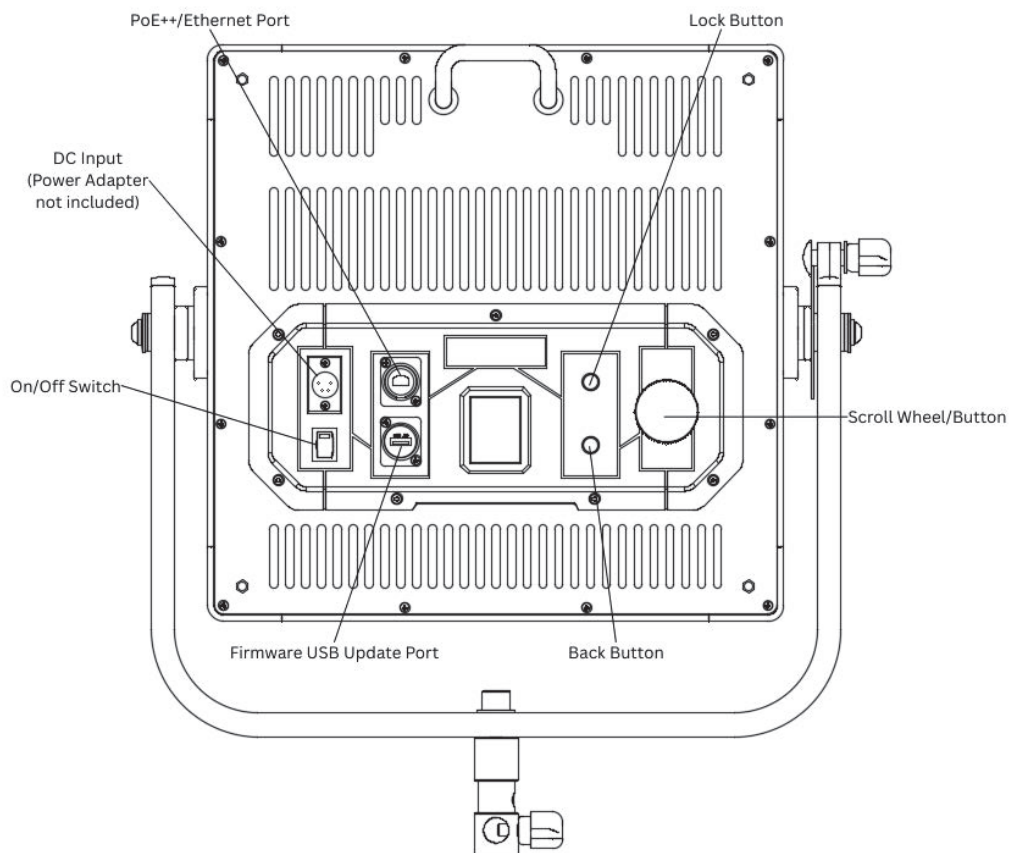
- Ensure that the PoE source complies with the 802.3bt Type 4 standard to provide the necessary power for the LCX10-POE.

5.3 Connecting to PoE Source

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

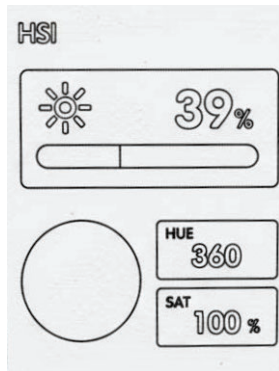
5.4 Troubleshooting PoE Issues

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



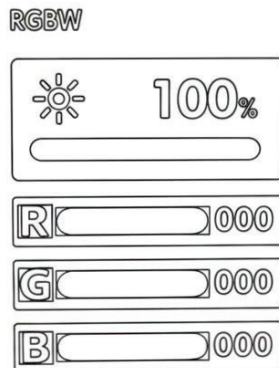
6.1 CCT (Color Temperature) Mode

Control the light's color temperature from 2700K - 6500K.
Curves available: Linear, Exponential, Logarithmic, S-Curve



6.2 HSI Mode

Control the light's using the color wheel. Able to adjust Intensity, Hue, and Saturation.



6.3 RGB Mode

- Adjust the Intensity, Red, Green, and Blue LEDs.

DMX

Address	001
MODE	Ultimate(4CH)

6.3 DMX Address

- DMX512 channel selection from 1 to 511.
- Ulimtate Mode 4 Channels, HSI Mode 3 Channels, RGBW Mode 4 Channels, CCT Mode 2 Channels.
- When the light receives DMX signal a green dot will appear indicating that DMX signal is received.
- **NOTE:** Local control not available when DMX is connected.

IP Config	
Net State	sACN
IP Add.	192.168.000.086
IP Mode	Static
Universe	00001

6.4 Net State:

- Turns on the usage of DMX over IP protocols Art-Net or sACN. Once one of these are selected, select the following:
IP: IP address of the light. The light can be set as the following:

192.168.xxx.xxx
172.xxx.xxx.xxx
10.xxx.xxx.xxx

6.5 Firmware Updates

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

6.6 Web Interface

- The light fixture is equipped with a web-based Graphical User Interface (GUI) that facilitates the adjustment of DMX address, Art-Net settings, sACN settings, as well as Ethernet configurations including IP address, Net Mask, and Gateway preferences.
- Access the web interface by entering the IP address on the back of the light. For example, if the light shows 192.168.0.50 enter that into the web browser of a computer on the same network as the light fixture.

The screenshot displays the iKan POE LIGHT web interface. On the left is a sidebar menu with options: System, ArtNet & sACN (highlighted), Ethernet, and Upgrade. The main content area is titled 'ArtNet Configuration & sACN Settings' and contains the following fields:

- DMX Address (1-512): A text input field containing the value '1'.
- Universe of ArtNet (0-32767): A text input field containing the value '1'.
- Output Source: A dropdown menu with 'Art-Net' selected.
- Universe of sACN (1-65535): A text input field containing the value '1'.

At the bottom right of the settings area are two buttons: 'Load' and 'Save'.

iKan POE LIGHT

System	IP Address Configuration IP Mode : <input checked="" type="radio"/> Static IP Address : <input type="text" value="192.168.0.50"/> Net Mask : <input type="text" value="255.255.255.0"/> Gate Way : <input type="text" value="0.0.0.0"/> <input type="button" value="Load"/> <input type="button" value="Save"/>
ArtNet & sACN	
Ethernet	
Upgrade	

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 use.

8. Troubleshooting

8.1 Power Issues

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

8.2 DMX over IP Controls Not Working

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

8.2 FAQs

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

- **Power Grid-Independent Installation:** PoE++ lights do not require new power outlets in the ceiling grid. This will save time and money required to create electrical drawing plans, apply for permits, and hire certified electricians to install the new outlets.

- **Simplified Power Management:** A single Ethernet cable will simultaneously power and DMX control the lights. This will simplify your installation and reduce clutter. Not only does this necessitate fewer cables, but when utilized in tandem with drop ceiling mounts, the discreet placement of Cat6 cables above the ceiling panels becomes possible. This contrasts with traditional AC-power cables, which must be installed below drop-ceiling tiles per code regulations. *Requires cables rated Cat6 24AWG Shielded or better. Ikan's PoE++ lights include both Art-Net and sACN DMX-Over-IP protocols.*
- **Enhanced Flexibility:** PoE++ lights can be easily moved and repositioned without the constraints of traditional power outlets nor the need to manage the traditional DMX daisy chain.

What kind of PoE switch will I need?

- The lights require 802.3bt Type 4 switch with minimal 90W per port. Netgear's 90W AV PoE++ Switches have been fully tested and certified to be compatible with all Ikan PoE++ lights. They include the **IKM4250-10G2XF-PoE++** 8 port switch and the **IKM4250-26G4F-PoE++** 24 port switch.

	IKM4250-10G2XF-PoE++	IKM4250-26G4F-PoE++
PoE++ Ports (90W/port)	8	24
PoE++ Power Budget	720W	1440W
Non-PoE RJ45 Ports	2	2
SFP Ports	2	4
Power Consumption	With PoE: 837.7W	Single AC With PoE: 889W Dual AC With PoE: 1734W

How many lights can I put on each switch?

- The information below demonstrates the number of PoE++ lightings that can be supported by either the 8 port or 24 port Netgear PoE++ switches.

IKM4250-10G2XF-PoE++

- 8 x LBX10-POE (85W x 16 = 680W)
- 8 x LBX8-POE
- 8 x Any combination of LBX8-POE and LBX10-POE

IKM4250-26G4F-PoE++

- 16 x LBX10-POE (85W x 16 = 1360W)
- 24 x LBX8-POE
- If doing a combination of Lyra POE lights, calculate the total wattage of all lights to make sure the switch can support it.
 - For example, if using 10 x LBX10-POE and 10 x LBX8-POE
 - LBX10-POE 85W x 10 = 850W
 - LBX8-POE 50W x 10 = 500W
 - 850W + 500W = 1350W
 - 1350W is lower than the switch's max power budget of 1440W, and only uses 20 PoE++ ports, so this switch can support this configuration.

If I have both DMX512 5-pin and ArtNet or sACN RJ45 plugged in, which has control 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 that has priority over PoE++.
Power supply NOT included.

Ultimate Mode

DMX Channel (CCT Version)	Value	Function
1	0-255	Dimmer
2	0-255	CCT (2700-6500K)
3	0-255	Plus/Minus Green
4	0- 86 - 170 171 - 255	CCT HSI RGB
DMX Channel (HSI Version)	Value	Function
1	0-255	Dimmer
2	0-255	Hue
3	0-255	Saturation
4	0-85 86 - 170 171 - 255	CCT HSI RGB
DMX Channel (RGB Version)	Value	Function
1	0-255	Red
2	0-255	Green
3	0-255	Blue
4	0-85 86 - 170 171 - 255	CCT HSI RGB

RGB Mode

DMX Channel	Value	Function
1	0-255	Dimmer
2	0-255	Red
3	0-255	Green
4	0-255	Blue

CCT Mode

DMX Channel	Value	Function
1	0-255	Dimmer
2	0-255	CCT (2700-6500K)

HSI Mode

DMX Channel	Value	Function
1	0-255	Dimmer
2	0-255	Hue
3	0-255	Saturation

Learn More at www.ikancorp.com

Support

Contact email: support@ikancorp.com

CONDITIONS OF WARRANTY SERVICE

- Free service for 1 year from the day of purchase if the problem is caused by manufacturing errors.
- The components and maintenance service fee will be charged if the warranty period is expired.

Free service will not be provided in the Following Situations: (*Even if the product is still 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, and environmental factors, etc.

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