# Operation Manual

## Celeb® 401Q DMX LED



KINO FLO® Lighting Systems

# Celeb 401Q DMX LED Fixtures

**CEL-401Q-120U**
Celeb 401Q DMX Yoke Mount, Univ 120U

**CEL-401Q-230U**
Celeb 401Q DMX Yoke Mount, Univ 230U

**CEL-401QP-120U**
Celeb 401Q DMX Pole-Op, Univ 120U

**CEL-401QP-230U**
Celeb 401Q DMX Pole-Op, Univ 230U

# Included w/ all Celeb 401Q Models

**LVR-CE490-Q**
Celeb 401Q Louver-Honeycomb, 90° (Included)

**GFR-CE4-Q**
Celeb 401Q Gel Frame (Included)

**KIT-C401Q-120U**
Celeb 401Q DMX Yoke Mount Kit, Univ 120U

**KIT-C401Q-230U**
Celeb 401Q DMX Yoke Mount Kit, Univ 230U

**Kit Contents:**
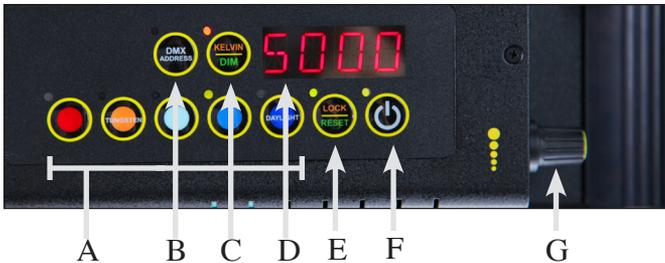1 Celeb 401Q DMX Yoke Mount
1 Jr. Pin
1 Ship Case

**Dimensions:**
34.5 x 33 x 8"
(88 x 84 x 22cm)

**Weight:**
52 lb
(24kg)

# Celeb 401Q DMX Control Panel



A) **Kelvin Preset Buttons:** Kelvin buttons come preset at the factory. Factory defaults left to right are: 2700K, 3200K, 4500K, 5500K, 6500K. User can also use these preset buttons to store custom Kelvin settings.

B) **DMX ADDRESS** – Use to set DMX address. The Celeb 401Q automatically assigns 2 channels. First Channel controls Dimming; Second Channel controls Kelvin.

C) **KELVIN / DIM:** In KELVIN mode, an amber light appears to the left of the button and Kelvin is displayed. Press the button again to change to DIM mode. In DIM mode, a green light will appear to the left of the button and Dim level is displayed.

D) **Display:** Provides Kelvin, Dim level and software revision data.

E) **LOCK / RESET:** In **LOCK** mode, an amber light is displayed to the left of the button. In **RESET** mode, the indicator light is green. To reset to factory presets, hold the **LOCK / RESET** button for 5 seconds.

F) **On / Off:  On** = Green light displayed.  **Off** = Amber light displayed.

G) **Kelvin / Dimmer Knob:** Manually adjusts Kelvin or Dim levels. Press the knob to toggle between fine and coarse adjustments.

**Note:** Each Celeb 401Q DMX fixture has an "**AUTO TERMINATE**" feature. The last fixture that does not have an XLR cable attached to the DMX "Out" port will automatically terminate.

**IMPORTANT!**
The dimmer board/light console should have its channel set to LINEAR light output response.  (LINEAR response is the default setting on most dimmer boards.)

# Fixture Power



## AC Input

The Celeb is powered AC and includes an IEC connection. A locking power cord is included with the fixture. To remove the plug, move the red tab to release. The ballast has a built-in power supply with universal input from 100-240VAC.



## DC Input

The Celeb can also be operated on 24VDC (input range 18-28VDC) through a 3-Pin XLR.  A low voltage warning will display "**LPWR**" when the battery is running low.

The pin polarity is:

Pin #1 – Ground
Pin #2 + 18-28VDC
Pin #3    not used

## Ambient Operating Temperature

The Celeb is designed to operate at temperatures from 14°F to 104°F (-10°C to 40°C).

# Start Up



When power is first applied to the fixture, the alphanumeric display shows the current software version.



Press the **On/Off** button to turn on the fixture. The display will show its last setting.

# Kelvin Selection



There are 5 Kelvin factory preset buttons. Left to right they display 2700K, 3200K, 4500K, 5500K and 6500K.

A green indicator will light to the left of the active button.

Rotating the adjustment knob will change the Kelvin.



Press the rotating knob once to shift the **Kelvin** profile from **Coarse** to **Fine** increments.

In the **Coarse** mode, the fixture can be adjusted in one rotation of the knob. In **Fine** mode, it will require 8 rotations for full range of adjustment.

# Kelvin Custom Settings



In **KELVIN** mode, the Kelvin can be fine tuned with the adjustment knob to custom settings between 2700K to 6500K.



The setting can be assigned to any preset button by holding down the desired button for 5 seconds.

The Kelvin display will flash once the setting is registered.

Note:  When the power is turned off or removed, the fixture will remember its last setting.

# Dimming



Press the **KELVIN / DIM** button.  The indicator light to the left of the button will turn green.

Rotating the adjustment knob will dim the light of the fixture.



Press the rotating knob once to shift the **Dim** profile from **Coarse** to **Fine** increments.

In the **Coarse** mode, the fixture can be adjusted in one rotation of the knob. In **Fine** mode, it will require 8 rotations for full range of adjustment.

# Reset Factory Settings



To reset factory settings, press and hold the **LOCK / RESET** button for 5 seconds.

The indicator light will turn green and the settings will reset to factory settings.

# Lock Mode



Press the **LOCK / RESET** button to lock the Kelvin and Dim settings. An amber indicator will display in **LOCK** mode.



In **LOCK** mode, controls are disabled and **LOCK** will appear in the display.

To **unlock**, press the **LOCK / RESET** button again. The indicator light will turn green.



In **LOCK** mode, you can toggle back and forth on the **KELVIN / DIM** button and review your Kelvin and Dim settings.

**Note:** When the power is removed, the fixture will reset to unlock.

# DMX Operation

The Celeb 401Q DMX operates on two DMX channels using DMX512. The first channel operates dimming; the 2nd channel operates Kelvin color temperature control.

Once an address is selected, the fixture automatically assigns 2 channels.

Press and hold the **DMX ADDRESS** button to select a DMX address. The displayed number will flash while in edit mode.

Turn the dimming knob to select a valid address from 1-512. (Note: 0 or 513-999 are invalid addresses.)

Press the rotating knob once to shift between **Fine** (single digits) and **Coarse** (in 10th's) address selection.

To save the DMX channel, press the **DMX ADDRESS** button again. When set, the displayed number will stop flashing.

**Note:** All Kelvin indicator lights will turn green if a valid DMX signal is present.

**If a fixture loses its DMX signal, it will hold its last DMX command.**
For this reason, it is important to turn a fixture off using the DMX commands.
For example, if you try to turn off the lights by turning off the dimmer board, the lights will remember their last DMX command and stay on.  The fixtures require a DMX "Off" or "Black-Out" command in order to turn off.



All manual controls are disabled once the DMX cable is applied and DMX is turned on.

**Note**:  To regain manual control with the DMX cable plugged in, set the DMX address to "0".



**AUTO TERMINATE FEATURE**

The Celeb 401Q DMX fixtures have an **AUTO TERMINATE** feature.  The last fixture that does not have an XLR cable attached to the DMX "Out" port will automatically terminate.

Any theatrical lighting board with DMX512 protocol can be used to control the Celeb 401Q DMX fixture.  The fixtures can be jumpered using the IN and OUT ports. As many as 100 fixtures can be jumpered on one chain as long as the DMX cable run remains under 1000 feet or 40 x 25ft DMX cables.

**Note:** When operating fixtures at great distances from the dimmer board, it is recommended to use Opto-Isolators to provide DMX signal amplification.

# DMX Kelvin Dimmer Control

**Kelvin Color Temperature – Dimmer level**

When DMX is applied, the DMX signal will override the manual settings and the Celeb Kelvin temperature will default to 6500K and dim setting will be at 100%.  Sliding the fader on the 1st channel will lower the light level. Sliding the fader on the 2nd channel will lower the Kelvin from 6500K to 2700K. (See chart on the following page for approximate Kelvin dimmer levels.). The fixture may respond ± 4 slider channels, depending on the dimmer board.

| Celeb 401Q DMX Kelvin Color Temperature Dimmer Level | |
| --- | --- |
| Kelvin Color Temperature | Dimmer Level |
| 6500K | 100% |
| 5500K | 75% |
| 4500K | 50% |
| 3200K | 15% |
| 2700K | 0% |

**Note:** The detailed DMX mapping for the Celeb 401Q DMX fixture can be downloaded from our website at www.kinoflo.com.

**IMPORTANT!**
The dimmer board/light console should have its channel set to LINEAR light output response. (LINEAR response is the default setting on most dimmer boards.)

# DMX Cables

**DMX Cables**

The Celeb 401Q DMX fixtures use five-pin XLR male and female connectors to receive DMX signals from the Dimmer Board and jumper the fixtures in a series. DMX pin-out wiring follows the USITT DMX512 standard:

> **Pin 1: Shield**
> **Pin 2: Data  –**
> **Pin 3: Date  +**
> **Pin 4: Spare –**
> **Pin 5: Spare +**

Note: Pin four and five in the fixture are connected internally as Pin four to four and Pin five to five. Connecting Pin four and five as the pass-thru allows secondary data to be passed through other equipment.

**Do not use Microphone Cables** and other general purpose, two-core cables designed for audio or signaling use. They are not suitable for DMX512. Problems due to incorrect cabling may not be immediately apparent. Microphone Cables may appear to work fine, but systems built with such cables may fail or be prone to random errors. Cable must comply with EIA-485 (RS485).

# Celeb 401Q Wireless Operation

The Celeb 401Q includes a built-in Lumen Radio receiver and can be operated wirelessly with a Lumen Radio transmitter (sold separately). Wireless is an option to using DMX cables. Set DMX address as previously instructed on p. 8. For more information on Lumen Radio Receiver/Transmitter, see **www.LumenRadio.com**.

**A) Signal Strength Indicator:**

| Blue | On - Wireless Enabled/Unlinked |
|------|-------------------------------|
| Green | 100% - 60% |
| Orange | 59% - 20% |
| Red | Less than 10% |

**B) Power/Wireless (white):** On/Off
**C) Unlink (red):** Hold for 3 seconds to unlink

Note: Fixture must be powered on and Power/Wireless must be in "On" position. In addition, transmitter must be connected to a DMX controller with a valid DMX output.

Press the white Power/Wireless button. A blue light indicates fixture is ready to link to transmitter.

Note: The transmitter will not link to the fixture if the Power/Wireless button is not on.

Press the link/unlink button on the transmitter to link to the Celeb 401Q. A fast red blinking light is displayed while searching for signal. A slow green blinking light* displays when linked.

A solid green light* is displayed when linked and DMX data is present with a strong signal.

Note: Fixture should only receive DMX wirelessly **or** through DMX cables, not both. Otherwise, the fixture will not respond properly.

*Green, Orange or Red light indicates signal strength.

To unlink from the fixture: Press and hold the red unlink button for 3 seconds. A blue light is displayed when unlinked.

To unlink from the **transmitter**: Press and hold the link/unlink button for 3 seconds. This will unlink all powered fixtures linked to the transmitter.

Note: When power is removed from fixture, it will remember its linked/unlinked state.

**Tips:**

DMX fixtures without wireless capability can be daisy chained with DMX cables to the wireless "linked" fixture.

Keep antenna upright.  Maintain line of sight.  Elevate unit above crowds. Elevation above ground increases range.  Keep away from large metal objects.

# Yoke Mount





**MTP-I80**

The yoke has a ½" hole to accept industry standard mounting hardware.

The **Celeb 401Q Yoke Mount** fixture can hang from a grid by a junior pipe hanger using a Junior Pin Assembly for Yoke **(MTP-I80)**, sold separately.

Note:  The yoke also provides an attachment point for a safety chain.

# Pole-Op



The **Celeb 401Q Pole-Op** fixture includes a yoke with an attached junior pin. It can be hung from a grid with a Junior pipe hanger.



Junior pin attached to Pole-Op Yoke

# Operating Pole-Op

The **Blue** cup alters the **Pan** (left or right).

The **White** cup alters the **Tilt** (up or down).

**Warning!**

Do not pull yoke to adjust tilt.

Turn the white knob counter clockwise to angle the yoke 90°. (ParaBeam shown for illustration purposes only.)

# Mount Option/Rope Hang

Accessory holders are also designed to enable 4-point rope hangs for specialty rigging applications.

# Applying Gel to Frame







**Option 1** - The Gel Frame comes with gel clips.  Cut the gel to size and use the clips to fasten the gel to the frame.

**Option 2** – Apply transfer tape directly to the Gel Frame.  The clips are not necessary when taping the gel.

# Inserting Gel Frame and Louver



The Celeb includes spring loaded accessory holders and two channels to hold the Gel Frame and Honeycomb Louver.

Place the long edge of the Gel Frame or Honeycomb Louver into the lower channel.  Press down on the left and right corners of the Gel Frame or Louver and slip the upper edge into the upper channel of the fixture.
To remove, reverse the procedure.

**Note:** Do not press down along the top center portion of the Gel Frame or Louver. Doing so may deform the Gel Frame or Louver over repeated usage.

# Inserting Barndoors



**BRD-CE4-Q**

Position the barndoors alongside the extruded edge of the fixture.  Align the thumbscrews with the adjustable receptacle holes in the fixture and insert into place.  Lock the barndoors by turning the silver thumbscrew.

To remove, reverse the procedure.

For replacement screws, use M5 Metric size screws.

Note:  To adjust the placement of the receptacle holes, use a pointed tool (such as a pen) to slide the holes within the extruded edge.

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# Troubleshooting

| Display | Protection Condition | Description | Normal Condition | Cause/Solution |
|---------|---------------------|-------------|------------------|----------------|
| OCP | Over Current Protection | Shut down current 2.52A in excess of 20% | 2.1A @ 100% dim | Repair Service Center |
| OVP | Over Voltage Protection | Shut down voltage @ excess 30V | Below 28V | Wrong Battery or 24V Battery w/ too high Open Voltage |
| UVP | Under Voltage Protection | Shut down voltage @ below 17V | Excess 18V | Dead Battery |
| OTP | Over Temperature Protection | Shut down temp @ 120°C (LDM board side) | Below 120°C @ LED array | Cool Down |
| OPP | Open Protection | Open circuit | No open | Repair Service Center |
| SCP | Short Circuit Protection | Short circuit | No short | Repair Service Center |

**Troubleshooting continued**

**Can't set the DMX address.**

You must Press and Hold the DMX Address button for 3 seconds in order to select an address. The display will flash while in edit mode.  Select a valid address from 1-512.  (Note: 0 or 513 and higher are invalid addresses.)

**Can't operate the fixture manually with the DMX cable plugged in.**

Two Options:
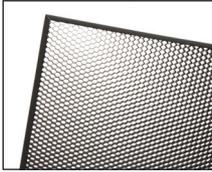Set DMX address to "0" or disconnect cable and turn power off and on.

**Can't link to wireless transmitter.**
Fixture must be receiving power.  Power/Wireless button must be in the "On" position and blue light must be displayed.

# Accessories
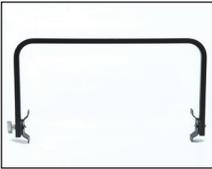


**BRD-CE4-Q**   Celeb 401Q Barndoors (Set of 4)



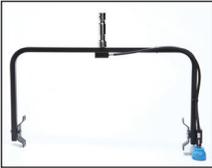**LVR-CE460-Q**    Celeb 401Q Louver-Honeycomb, 60°



**MTP-I80**    Junior Pin Assembly for Yoke (28mm)



**KAS-CE4-Q**     Celeb 401Q Yoke Ship Case



**7010048**    Celeb 401Q Yoke Assembly



**7010049**    Celeb 401Q Pole-Op Assembly

# Fixture Specifications



**Celeb 401Q DMX
Yoke Mount**

**CEL-401Q-120U**
Celeb 401Q DMX Yoke Mount, Univ 120U

**AC Input Voltage:** 100~240VAC 50/60Hz, 210W
**Amperage VAC:** 1.8A at 120VAC
**DC Input Voltage:** 18~28VDC, 198W
**Amperage VDC:** 8.25A at 24VDC
**Kelvin Range:** 2700K~6500K
**Dimming Range:** 100% ~ 1%
**Weight:** 24 lb (11kg)
**Dimensions:** 30 x 26 x 5"
(72 x 66 x 13cm)

**CEL-401Q-230U**
Celeb 401Q DMX Yoke Mount, Univ 230U

**AC Input Voltage:** 240~100VAC 50/60Hz, 207W
**Amperage VAC:** 1.0A at 230VAC
**DC Input Voltage:** 18~28VDC, 198W
**Amperage VDC:** 8.25A at 24VDC
**Kelvin Range:** 2700K~6500K
**Dimming Range:** 100% ~ 1%
**Weight:** 24 lb (11kg)
**Dimensions:** 30 x 26 x 5"
(72 x 66 x 13cm)



**Celeb 401Q DMX
Pole-Op**

**CEL-401QP-120U**
Celeb 401Q DMX Pole-Op, Univ 120U

**AC Input Voltage:** 100~240VAC 50/60Hz, 210W
**Amperage VAC:** 1.8A at 120VAC
**DC Input Voltage:** 18~28VDC, 198W
**Amperage VDC:** 8.25A at 24VDC
**Kelvin Range:** 2700K~6500K
**Dimming Range:** 100% ~ 1%
**Weight:** 26 lb (12kg)
**Dimensions:** 30 x 30.5 x 5"
(76 x 77.5 x 13cm)

**CEL-401QP-230U**
Celeb 401Q DMX Pole-Op, Univ 230U

**AC Input Voltage:** 240~100VAC 50/60Hz, 207W
**Amperage VAC:** 1.0A at 230VAC
**DC Input Voltage:** 18~28VDC, 198W
**Amperage VDC:** 8.25A at 24VDC
**Kelvin Range:** 2700K~6500K
**Dimming Range:** 100% ~ 1%
**Weight:** 26 lb (12kg)
**Dimensions:** 30 x 30.5 x 5"
(76 x 77.5 x 13cm)

For latest Warranty information and Certifications,
see Kino Flo website at www.kinoflo.com.

**Environmental: Disposal of Old Electrical & Electronic Equipment.**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. This product is made of recyclable materials and should be disposed of in accordance with governmental regulations.

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