Operation Manual

Celeb® 400 DMX LED

KINO FLO®
Lighting Systems

Celeb 400 DMX LED Fixtures

Celeb 400 Center Mount

CEL-400C-120U
Celeb 400 DMX Center Mount, Univ 120U

CEL-400C-230U
Celeb 400 DMX Center Mount, Univ 230U

Celeb 400 Yoke Mount

CEL-400Y-120U
Celeb 400 DMX Yoke Mount, Univ 120U

CEL-400Y-230U
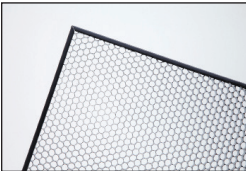Celeb 400 DMX Yoke Mount, Univ 230U

Celeb 400 Pole-Op

CEL-400P-120U
Celeb 400 DMX Pole-Op, Univ 120U

CEL-400P-230U
Celeb 400 DMX Pole-Op, Univ 230U

Included w/ all Celeb 400 Models

LVR-CE490-P
Celeb 400 Louver/HP, 90° (Included)

GFR-CE4
Celeb 400 Gel Frame (Included)

Celeb 400 DMX LED Kits

Celeb 400 Center Mount Kit

KIT-C4-120U
Celeb 400 DMX Center Mount Kit,
Univ 120U

KIT-C4-230U
Celeb 400 DMX Center Mount Kit,
Univ 230U

Kit Contents:
1 Celeb 400 DMX Center Mount
1 Flight Case

Weight: 52.5 lb (24kg)

Dimensions: 53.5 x 11 x 16.5"
(136 x 28 x 42cm)

Celeb 400 Yoke Mount Kit

KIT-C4Y-120U
Celeb 400 DMX Yoke Mount Kit,
Univ 120U
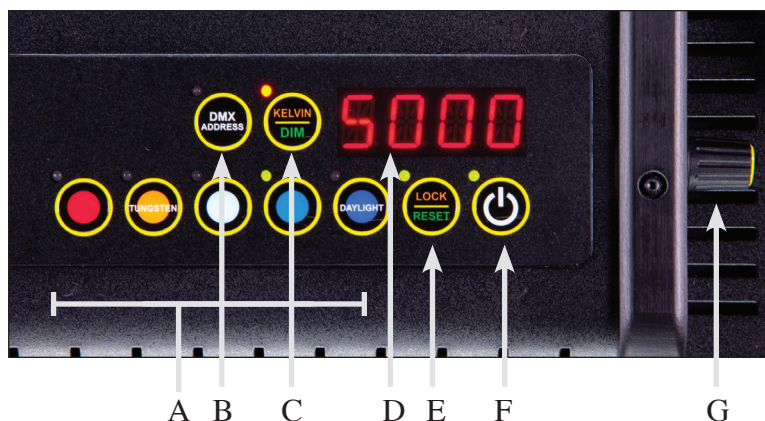
KIT-C4Y-230U
Celeb 400 DMX Yoke Mount Kit,
Univ 230U

Kit Contents:
1 Celeb 400 DMX Yoke Mount
1 Jr. Pin
1 Ship Case

Weight: 57 lb (26kg)

Dimensions: 54.5 x 9.5 x 25"
(138.5 x 24 x 63.5cm)

Celeb 400 DMX Control Panel

A B C D E F G

A) Kelvin Preset Buttons: Kelvin buttons come preset at the factory. Factory defaults left to right are: 2700K, 3200K, 4000K, 5000K, 5500K. User can also use these preset buttons to store custom Kelvin settings.

B) DMX ADDRESS – Use to set DMX address. The Celeb 400 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 400 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.

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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 default to a Kelvin setting of 5000.

Kelvin Selection

There are 5 Kelvin factory preset buttons. Left to right they display 2700K, 3200K, 4000K, 5000K and 5500K.

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 5500K.

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.
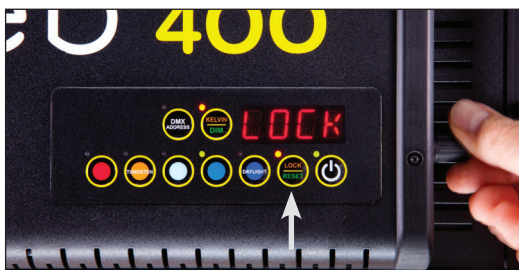
Reset Factory Settings

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

The indicator light will turn green and the display will flash 5000 and light output will be at 100%.

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 400 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.

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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".

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

AUTO TERMINATE FEATURE

The Celeb 400 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 400 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.

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 5500K 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 5500K 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 400 DMX Kelvin Color Temperature Dimmer Level	
Kelvin Color Temperature	Dimmer Level
5500K	100%
5000K	75%
4000K	50%
3200K	15%
2700K	0%

Note: The detailed DMX mapping for the Celeb 400 DMX fixture can be downloaded from the Operation Manual posted on 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 400 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).

Center Mount

MTP-LM

Mounted on
a junior stand

Mounted to pipe grid

The Celeb 400 Center Mount fixture includes a Lollipop w/ Junior Pin
(28mm) **(MTP-LM)** which allows the fixture to be mounted directly onto a
junior stand or hung from a grid with a junior pipe clamp.

Note: The handles on the back of the fixture provide attachment points for a
safety chain.

A 180° turn loosens the orientation of the mount. A right turn tightens the
mount.

The tension on the lock lever may be adjusted by pulling the handle away
from the mount. This disengages the handle from the screw mechanism and
allows the lever to be reoriented.

You can also use a screwdriver to adjust the tension. Pull back on handle
and adjust screw.

Yoke Mount

MTP-I80

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

The **Celeb 400 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.

Warning: Use only M5 X 10mm screws (supplied) to assemble yoke. Note that threads on the fixture are self-locking and may seem tight. Replacement screws: Part No. **2020127**

Recommended torque setting:
USA: 18 lb-in
Metric: 2 Nm

Pole-Op

The **Celeb 400 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°.

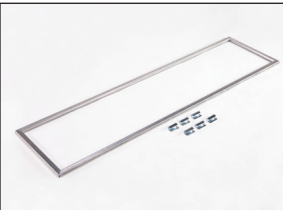(ParaBeam shown for illustration purposes only.)

Mount Option/Rope Hang

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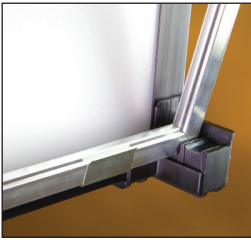
Applying Gel to Frame

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.
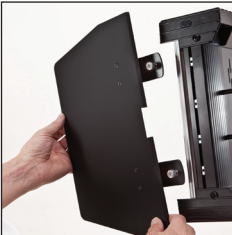
Inserting Gel Frame and Louver

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

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 2.45A in excess of 20%	2.04A @ 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.)
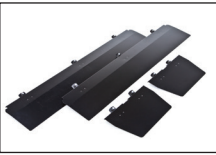
Can't operate the fixture manually with the DMX cable plugged in.
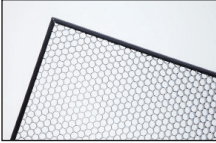
Two Options:
Set DMX address to "0" or disconnect cable and turn power off and on.

Accessories

BRD-CE4 Celeb 400 Barndoors (Set of 4)

LVR-CE460-P   Celeb 400 Louver/HP, 60°

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

MTP-LM Kino 81 Lollipop w/ Junior Pin (28mm)

KAS-CE4   Celeb 400 Center Flight Case

KAS-CE4-C   Celeb 400 Center Travel Case

KAS-CE4-S   Celeb 400 Center Ship Case

KAS-CE4-Y   Celeb 400 Yoke Ship Case

7010045   Celeb 400 Yoke Assembly

7010046   Celeb 400 Pole-Op Assembly

Fixture Specifications

**Celeb 400 DMX
Center Mount**

CEL-400C-120U
Celeb 400 DMX Center 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~5500K
Dimming Range: 100% ~ 1%
Weight: 26 lb (12kg)
Dimensions: 45 x 14 x 5"
(114.5 x 36 x 13cm)

CEL-400C-230U
Celeb 400 DMX Center 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~5500K
Dimming Range: 100% ~ 1%
Weight: 26 lb (12kg)
Dimensions: 45 x 14 x 5"
(114.5 x 36 x 13cm)

**Celeb 400 DMX
Yoke Mount**

CEL-400Y-120U
Celeb 400 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~5500K
Dimming Range: 100% ~ 1%
Weight: 26 lb (12kg)
Dimensions: 50 x 16.5 x 5"
(127 x 42 x 13cm)

CEL-400Y-230U
Celeb 400 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~5500K
Dimming Range: 100% ~ 1%
Weight: 26 lb (12kg)
Dimensions: 50 x 16.5 x 5"
(127 x 42 x 13cm)

**Celeb 400 DMX
Pole-Op**

CEL-400P-120U
Celeb 400 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~5500K
Dimming Range: 100% ~ 1%
Weight: 26 lb (12kg)
Dimensions: 50.5 x 16.5 x 5"
(128.5 x 42 x 13cm)

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Celeb 400 DMX Pole-Op, Univ 230U

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Dimming Range: 100% ~ 1%
Weight: 26 lb (12kg)
Dimensions: 50.5 x 16.5 x 5"
(128.5 x 42 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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