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# LIGHTRONICS FXLE30C4N LED Fixture Owner's Manual

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**LIGHTRONICS**

**FXLE30C4N LED FIXTURE**
**OWNER'S MANUAL**

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## FEATURES AND SPECIFICATIONS

LEDs: 300 Watt 4-in-1 Quad-Color, RGBW array White Color Temp.: 2950K-10800K CRI: 93 CQS: 92 Beam Angle: 19º, 26º or 36º Control System: DMX-512 + Stand Alone DMX Channels: 4 or 9 channel mode DMX Connectors: 3 pin XLR I/O Power Input: 100-230VAC, 50/60Hz Max. Power Consumption: 330 Watts @ 120VAC Standby Power Consumption: 6 Watts @ 120VAC Ingress Protection: IP20 – Indoor Use Only Body Material: All Metal Construction Body Color: Black or White Available Reflector: Glass Gel Frame and Size "B" Gobo Holder Included FX Accessory Slot Sliding Yoke Assembly on 12.75″ Track Size: 28″ L x 13.75″ W x 22″H (with yoke) Weight: 23 lbs.

## DESCRIPTION

The FXLE30C4N is a four color LED ellipsoidal fixture that is suitable for stage, houses of worship, entertainment venues and other artistic applications. It has automatic stand-alone control modes and can operate via an external DMX-512 signal.
A mounting yoke enables the fixture to be installed and operated in various positions and orientations.

## INSTALLATION

LOCATION
Locate the unit indoors in a well-ventilated area away from moisture or heat. Maintain a minimum spacing of 20″ between the unit and other objects. The maximum ambient operating temperature is 40ºC (104ºF). Keep the vent holes clear. Holes are provided on the yoke to install a traditional lighting C-clamp for mounting on batten pipe. Use a safety cable attached to the safety eye when hanging the fixture.

GOBO/FX SLOT ALIGNMENT
To rotate barrel, loosen the two 3mm hex socket head screws on both sides of body behind the shutter handles. Then loosen both adjustment knobs at top and bottom of fixture behind the shutter handles. Once GOBO or FX slot is aligned, retighten screws and knobs.

LENS TUBE ADJUSTMENT
To focus beam, loosen the knobs at top and bottom of the barrel, extend/retract tube as needed for intended beam and tighten knobs. Support lens tube in process.

YOKE ADJUSTMENT
To slide yoke along track, loosen 4 screws on both side brackets with #2 Phillips screwdriver, adjust yoke and retighten screws once in desired position.

POWER CONNECTIONS

The FXLE30C4N has a blue turn and lock connector for power input. A compatible power cable is provided for connection to a 120 VAC, 15 Amp, 60Hz, grounded service.

DANGER
RISK OF ELECTRIC SHOCK
Push the blue connector on the cable straight into the blue connector on the unit and twist approx. 1/8 turn clockwise to latch it. Do not power the unit from a dimmer pack. The white turn and lock connector on the unit is used to pass power on to another FXLE30C4N unit. A mating white connector is also provided.
The safety ground pin on the power cord must be used.
When using 120VAC, only connect a maximum of four FXLE30C4N fixtures together with power connectors.

DMX CONNECTIONS
A system using DMX control should be connected as a chain of devices. In other words, the control signal cable should originate at the controller to the first receiving device and then to others in one continuous chain. An optically isolated DMX splitter is recommend when installing the FXLE30C4N in a system with various other DMX devices.

The FXLE30C4N has a DMX IN and a DMX OUT connector which are used to connect the DMX data chain. The control cable can NOT be split into a Y or multiple run/star arrangement with a cable running directly from the controller to each receiving device.

DMX CONNECTOR PIN ASSIGNMENTS
Predominantly two connectors are used for connecting fixtures and other DMX devices to a DMX control chain. They are both "XLR type" connectors. Some units use 3 pin connectors, others use 5 pin connectors. The FXLE30C4N receives a DMX signal on the 3 pin MALE connector on the rear of the unit. The 3 pin FEMALE connector is used to connect to the next DMX device on the control chain.

If your console uses a 5 pin XLR connector, an adapter cable can be purchased or fabricated to accommodate this conversion. The following table shows the pin assignments for both 3 pin and 5 pin XLR connectors:

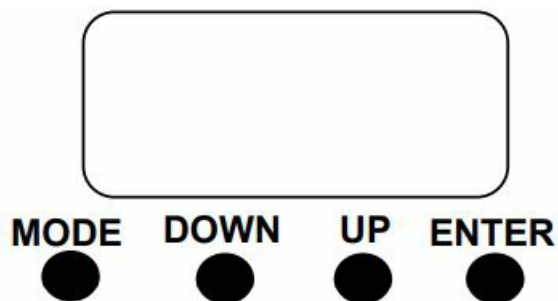| PIN # | SIGNAL NAME |
|-------|-------------|
| 1 | DMX COMMON |
| 2 | DMX DATA - |
| 3 | DMX DATA + |
| 4 | NOT USED |
| 5 | NOT USED |

**DMX TERMINATION**
It is recommended that a DMX data chain be terminated at the last receiving device on the chain. This is done by installing a commonly available 1/4 Watt, 120 Ohm resistor across the DATA – and DATA + wires at the last device. If you have only a few
fixtures installed very close together and with a short run of DMX cable to the controller, then you may be able to operate without the terminator.

**OPERATION**

Power is applied once the power cord is connected to a live power source. There is not an on/off switch. Connect power cord to fixture first, then outlet. A display and user interface is located on the back of the unit. This interface is used to set the operating options and settings. It consists of a backlit LCD display and four buttons (MODE, DOWN, UP and ENTER).

**CONTROL PANEL**

**MODE** **DOWN** **UP** **ENTER**

Use MODE to scroll through the available choices. The current setting for the option will be shown. Use UP and DOWN until you reach the desired setting or mode then push ENTER to lock in the new setting.

In case of loss of power to fixture, the fixture will return to the last setting that was locked in with ENTER being pressed.

## MENU OPTIONS

| MENU | Value (D:) | Function |
|---|---|---|
| DMX - 9CH | 001-512 | 9 channel start address |
| DMX - 4CH | 001-512 | 4 channel start address |
| Jump | 00-99 | Color Change (speed) |
| Gradient | 00-99 | Color Fade (speed) |
| Pulse | 00-99 | Fast On / Slow fade with mix of RGBW colors selected. |
| Voice Running (Sound Mode) | Enter on/ Enter off | Color change to audio vibrations. |
| Color R | 000-255 | Red intensity |
| Color G | 000-255 | Green intensity |
| Color B | 000-255 | Blue intensity |
| Color W | 000-255 | White intensity |
| Color | 9 Presets | Options from 2000K to 12000K. |

DMX – 9 ch: Select the DMX start address and press ENTER to set 9 Channel DMX mode. Highest starting address is 504 for full functions. See DMX Operation.
DMX – 4 ch: Select the DMX start address and press ENTER to set 4 Channel DMX mode. Highest starting address is 509 for full functions. See DMX Operation.

Pulse: Colors come on quickly and fade out, number of steps vary based on colors chosen from the RGBW selections. Set color intensity to 001-255, but actual value is irrelevant. 2 colors = 12 steps, 3 colors = 14 steps. 4 colors = 15 steps.
Voice Running: The unit responds to sound providing random pulses of color.
Color R: Varies the RED color intensity (0-255).
Color G: Varies the GREEN color intensity (0-255).
Color B: Varies the BLUE color intensity (0-255).
Color W: Varies the WHITE color intensity (0-255).
Color: Nine preset color temperature options at a default intensity. (2000K, 2500K, 3000K, 4500K, 5600K, 6500K, 8000K, 9000K, 12000K).

**DMX OPERATION**

## 9 CHANNEL DMX MODE

| CHANNEL | FUNCTION | | |
|---|---|---|---|
| 1 | Overall Intensity (0-255) | | |
| 2 | Strobe (Speed 0-255) (Color Required) | | |
| 3 | Effect | 0-5: Off 6-100: Jump 101-150: Gradient 151-200: Pulse 201-255: Sound Control | |
| 4 | Effect Speed (0-255) | | |
| 5 | Red Intensity (0-255) | | |
| 6 | Green Intensity (0-255) | | |
| 7 | Blue Intensity (0-255) | | |
| 8 | White Intensity (0-255) | | |
| 9 | Color Temperature 0:Off, 1-255: variable 2000K-12000K | | |

Overall Intensity: Controls overall intensity of LED array for functions 2 through 9.

Strobe: Flashes light using color selected from channels 5 through 8 or channel 9.

Effect/Speed: Use channel 3 in conjunction with channel 4 to select the effect and the rate at which the effect is performed (Off/Jump/Gradient/Pulse/Sound).

Red Intensity: Control the intensity of the RED LED array for use alone or when blending with other colors.

Green Intensity: Control the intensity of the GREEN LED array for use alone or when blending with other colors.
Blue Intensity: Control the intensity of the BLUE LED array for use alone or when blending with other colors.
White Intensity: Control the intensity of the COOL WHITE LED array for use alone or when blending with other colors.
Color Temperature: Provides a variable color temperature white LED light. The intensity is controlled by the `Overall Intensity' setting.

## 4 CHANNEL DMX MODE

| CHANNEL | FUNCTION |
|---|---|
| 1 | Red Intensity (0-255) |
| 2 | Green Intensity (0-255) |
| 3 | Blue Intensity (0-255) |
| 4 | White Intensity (0-255) |

Red Intensity: Control the intensity of the RED LED array for use alone or when blending with other colors.
Green Intensity: Control the intensity of the GREEN LED array for use alone or when blending with other colors.
Blue Intensity: Control the intensity of the BLUE LED array for use alone or when blending with other colors.
White Intensity: Control the intensity of the WHITE LED array for use alone or when blending with other colors.

## MAINTENANCE AND REPAIR

TROUBLESHOOTING
Fixture will not power up.

- Check that you have power applied to the unit.
- Check the fuse located on the back panel.

Unable to control fixture.

- Check that the LCD display indicates the correct DMX channel mode and is addressed properly. If not, select the proper channel mode and address then press ENTER.
- Check the LCD display on the fixture; if there is a flashing decimal after the DMX value, a valid DMX signal is present. If no decimal is showing, then a valid DMX signal is not present.
- Check the DMX control cable for continuity and polarity.
- Remove the fixture from the DMX chain and all other DMX devices.
- Check the address settings or patch at the controller.

## CLEANING

DISCONNECT THE POWER CORD BEFORE HANDLING THE UNIT.
A mild detergent can be used sparingly if needed.
Apply to cloth only; do not apply directly to fixture. Do not use chemicals or solvents when cleaning the fixture. Ensure that the unit is dry before use.

### REPAIR
The only FXLE30C4N user serviceable part is a 5 mm x 20 mm externally accessible fuse on the rear panel.
DISCONNECT THE POWER CORD BEFORE CHECKING OR REPLACING THE FUSE.

DISCONNECT THE POWER CORD BEFORE HANDLING THE UNIT.
A mild detergent can be used sparingly if needed. Apply to cloth only; do not apply directly to fixture. Do not use chemicals or solvents when cleaning the fixture. Ensure that the unit is dry before use.
REPAIR
The only FXLE30C4N user serviceable part is a 5 mm x 20 mm externally accessible fuse on the rear panel.
DISCONNECT THE POWER CORD BEFORE CHECKING OR REPLACING THE FUSE.

Replace fuse ONLY with 5.0 Amp, 250VAC, fast acting fuse. Requires #2 Philips head screwdriver to access. Use care to not overtighten.

DANGER DO NOT OPEN UNIT
RISK OF ELECTRIC SHOCK
RISK OF FIRE

Internal service on the unit by other than Lightronics authorized agents will void the warranty.
If service is required, contact the dealer from whom you purchased the item, or contact the Lightronics Service Department, 509 Central Drive, Virginia Beach, VA 23454. Tel: 757 486 3588.

**WARRANTY INFORMATION AND REGISTRATION  CLICK LINK BELOW**
**www.lightronics.com/warranty.html**

## FXLE30C4N         PHOTOMETRIC         DATA

| 19° | 10 Foot | | | 20 Foot | | | 30 Foot | | |
|---|---|---|---|---|---|---|---|---|---|
| | Beam (ft.) | FC | Lux | Beam (ft.) | FC | Lux | Beam (ft.) | FC | Lux |
| Red | 3.3 | 294 | 3050 | 6.6 | 64 | 682 | 10.5 | 27 | 455 |
| Green | 3.3 | 302 | 3210 | 6.6 | 70 | 758 | 10.5 | 30 | 508 |
| Blue | 3.3 | 492 | 5200 | 6.6 | 113 | 1226 | 10.5 | 50 | 840 |
| White | 3.3 | 550 | 5950 | 6.6 | 136 | 1458 | 10.5 | 57 | 966 |
| All Colors | 3.3 | 1535 | 16120 | 6.6 | 366 | 3920 | 10.5 | 158 | 2580 |

| 26° | 10 Foot | | | 20 Foot | | | 30 Foot | | |
|---|---|---|---|---|---|---|---|---|---|
| | Beam (ft.) | FC | Lux | Beam (ft.) | FC | Lux | Beam (ft.) | FC | Lux |
| Red | 4.7 | 160 | 1810 | 9.4 | 40 | 443 | 14.2 | 18 | 196 |
| Green | 4.7 | 186 | 1995 | 9.4 | 45 | 489 | 14.2 | 21 | 228 |
| Blue | 4.7 | 300 | 3160 | 9.4 | 76 | 824 | 14.2 | 34 | 372 |
| White | 4.7 | 340 | 3720 | 9.4 | 86 | 936 | 14.2 | 39 | 427 |
| All Colors | 4.7 | 950 | 10120 | 9.4 | 237 | 2520 | 14.2 | 105 | 1168 |

| 36° | 10 Foot | | | 20 Foot | | | 30 Foot | | |
|---|---|---|---|---|---|---|---|---|---|
| | Beam (ft.) | FC | Lux | Beam (ft.) | FC | Lux | Beam (ft.) | FC | Lux |
| Red | 6.5 | 89 | 960 | 12.9 | 23 | 255 | 19.5 | 11 | 121 |
| Green | 6.5 | 99 | 1100 | 12.9 | 27 | 294 | 19.5 | 12 | 134 |
| Blue | 6.5 | 170 | 1835 | 12.9 | 45 | 486 | 19.5 | 20 | 223 |
| White | 6.5 | 192 | 2050 | 12.9 | 51 | 554 | 19.5 | 28 | 309 |
| All Colors | 6.5 | 532 | 5590 | 12.9 | 140 | 1530 | 19.5 | 77 | 820 |

## Documents / Resources



**LIGHTRONICS FXLE30C4N LED Fixture** [pdf] Owner's Manual
FXLE30C4N, FXLE30C4N LED Fixture, LED Fixture, Fixture

## References

- ⌀ **Lightronics - Complete Lighting and Control Systems**
- ⌀ **Lightronics Lighting Control Product Warranty Information**