FEATURES AND SPECIFICATIONS

LEDS: 12 @ 3W (Tricolor RGB 3 in 1)
Beam Angle: 25 º
Control System: DMX-512
DMX Channels: 3, 4, or 16
DMX Connectors: 3 pin XLR
Power: 100 - 250 VAC, 50/60 Hz
Max Power Consumption: 50 Watts
Body color: Black
Size: 17.8"W x 12.3"D x 9.5"H
Weight: 13 lbs

DESCRIPTION

The FXLD312R3I is a RGB LED lighting fixture. It is suitable for stage, disco, night club, and other artistic applications. It has several stand alone control modes and can operate via a DMX-512 external signal.

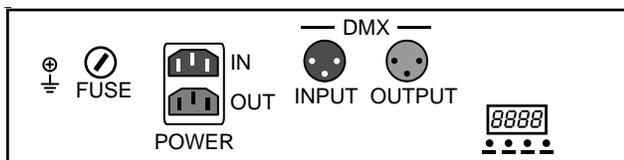A double yoke enables the unit to be operated in several positions.

INSTALLATION

LOCATION

The FXLD312R3I is rated IP20. The unit is intended for **INDOOR USE ONLY.**

Locate the unit in a well ventilated area away from moisture and heat. Do not allow the vent or fan intake holes to be blocked. Holes are provided on the yokes to install a lighting bar pipe clamp. A safety cable should also be used.

CHASSIS REAR VIEW

POWER CONNECTIONS

The FXLD312R3I has dual (male and female) IEC type power connectors. The recessed male connector is for a line cable connection to a 120 VAC, 15 Amp, 60Hz, grounded service. This line cord is provided.

The female IEC connector is to chain the power to another unit if multiple units are used together. An IEC power cable for this purpose is also provided.

DMX CONNECTIONS

A system using DMX control should be connected as a chain of devices. In other words the control signal cable should proceed from the controller to the first receiving device and then to others in a continuous "daisy chain" fashion.

The fixture has a DMX IN and a DMX OUT connector to be used to connect the chain. The control cable should NOT be split into a multiple run star arrangement with a cable running from the controller directly to each receiving device pack.

DMX CONNECTOR PIN ASSIGNMENTS

There are two XLR connector types which can be used for DMX control. Some units use 3 pin connectors. Others use 5 pin connectors. The FXLD312R3I receives a DMX signal on the 3 pin MALE connector on the back of the unit. The 3 pin FEMALE connector is used to connect the next DMX device on the control chain. If your console uses a 5 pin connector you can make an adapter cable to accommodate this. The table below shows the pin assignments for both the 3 pin and 5 pin connectors.

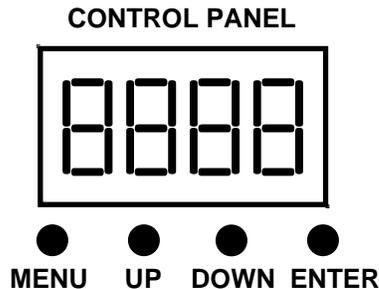| PIN #	SIGNAL NAME
1	DMX COMMON
2	DMX DATA -
3	DMX DATA +
4	NOT USED
5	NOT USED

DMX TERMINATION

A DMX chain should 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 very close together and a very short run to the controller then you may be able to operate without the terminator.

OPERATION

A control panel on the rear of the unit is used to set the operating options. It consists of an LED display and four buttons (MENU, UP, DOWN, and ENTER)

CONTROL PANEL

MENU   UP   DOWN   ENTER

Push MENU to access the operating options. Then use UP and DOWN to scroll through the available choices. When you reach the option you want to set or change - push ENTER. Now you can view the current setting for the option and or change it. Push ENTER to save your changes and activate the option. See the MENU NAVIGATION diagram for additional details.

DISPLAY INVERSION

You can flip the display so that it reads upside down if you install the unit in an unusual orientation. Use the P - menu to set it. P 1 is normal and P 2 is upside down.

DMX OPERATION

Use the A - - - menu to set the starting address of the unit. You can set the starting address of the unit with the UP and DOWN buttons.

For DMX operation the FXLD312R3I fixture can be configured as a 3 channel, 4 channel, or 16 channel unit. This is controlled by the Mode Selection menu. See the MENU NAVIGATION diagram in this manual.

DMX channel functions for the three modes are given in the table DMX CHANNEL ALLOCATIONS.

STAND ALONE OPERATION

There are 6 stand alone operation options: Flash All, Fade Colors, Run Program, Sequence Colors, Sound Sequence, and Sound Flash.

FLASH ALL

The Flash All mode flashes (strobes) all colors resulting in a white light strobe effect.. Use the FL - - menu to set the flash speed and activate the option. The range is from 00 to 15. 00 is fastest.

FADE COLORS

The Fade Colors mode cycles smoothly through a sequence of colors. Use the FA - - menu to set the speed and activate the option. The range is from 00 to 15. 00 is fastest.

RUN PROGRAM

The unit can operate using 16 preset programs. The first 6 presets are solid colors. The remaining presets are a variety of changing patterns. Use the Pr - - menu to select and activate a preset program. The range is from 00 to 15.

SEQUENCE COLORS

The Sequence Colors mode switches through a sequence of colors. Use the SP - - menu to set the sequence speed and activate the option. The range is from 00 to 15. 00 is fastest.

SOUND SEQUENCE

Use the SonA menu to invoke the Sound Color option. The unit will sequence through a series of colors in sync with music base notes.

SOUND FLASH

Use the SonF menu to invoke the Sound Flash option. The unit will flash through a series of colors in sync with music base notes.

MAINTENANCE AND REPAIR

TROUBLESHOOTING

Check that you have power applied to the unit.

Check the fuse.

Check the DMX control cable.

Check the address settings of the unit and the controller.

REPAIR

⚠   **CAUTION   DO NOT OPEN UNIT**
             RISK OF ELECTRIC SHOCK
               RISK OF FIRE

The only FXLD312R3I user serviceable part is externally accessible 5mm x 20mm fuse.

DISCONNECT THE UNIT FROM POWER BEFORE CHECKING OR REPLACING THE FUSE

Replace the fuse **ONLY** with 2.0 Amp, 250VAC, fast blow fuse.

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.
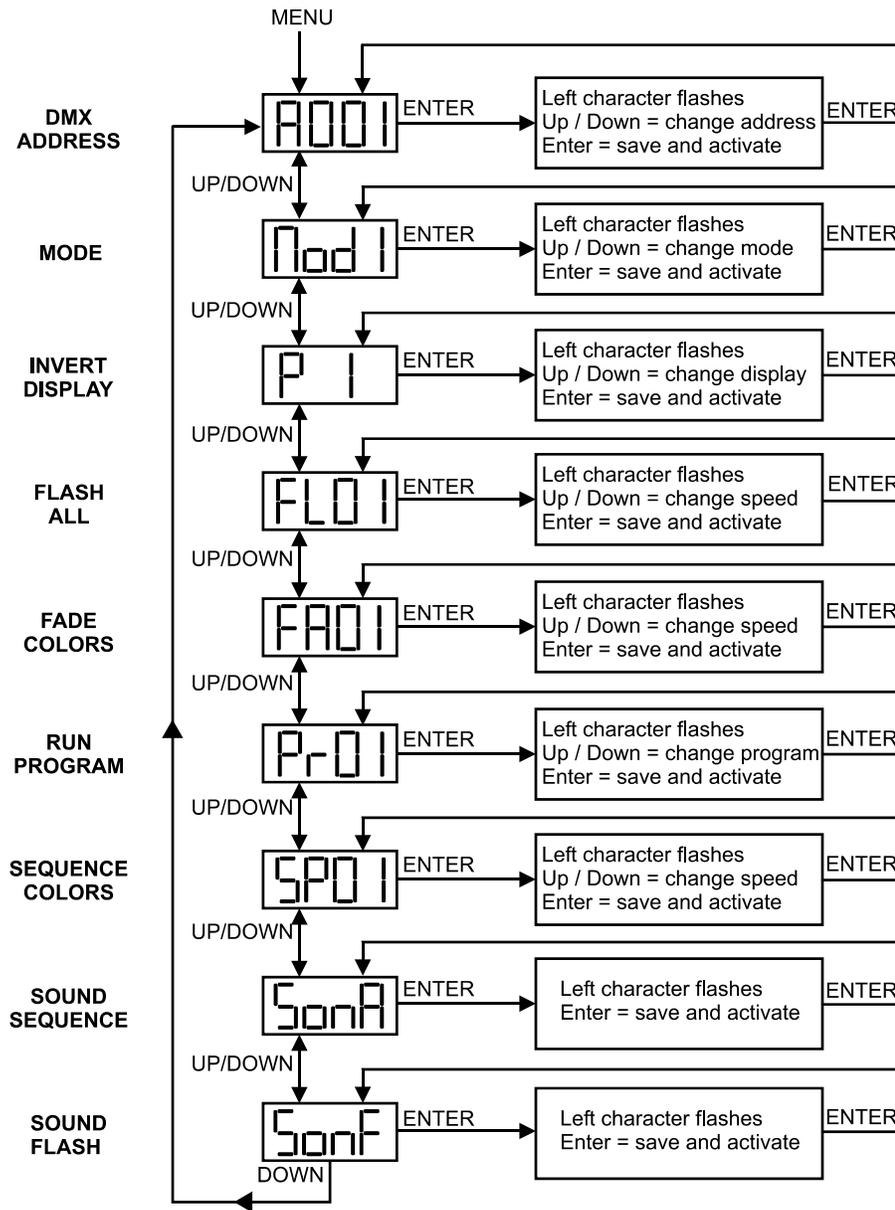
PHOTOMETRIC DATA

Distance (ft)	Illuminance (Lux)	Beam Diam. (ft)
10	728	6w X 4h
20	183	10w X 8h
30	86	20w X 12h

LIGHTRONICS

FXLD312R3I LED LIGHTING FIXTURE
Version 0.2   **OWNERS MANUAL**   03/30/2012

DMX CHANNEL ALLOCATIONS

DMX Channel	Mode 1 (16 Channel)	Mode 2 (4 Channel)	Mode 3 (3 Channel)
1	0 - 50 Ch 2-16 Enabled 51 - 248 Various Effects 249 - 255 Ch 2-16 Enabled	Master Level (All Lamps)	Red Level (All Lamps)
2	Red Level (All Lamps)	Red Level (All Lamps)	Green Level (All Lamps)
3	Green Level (All Lamps)	Green Level (All Lamps)	Blue Level (All Lamps)
4	Blue Level (All Lamps)	Blue Level (All Lamps)	Not Used
5	Red Level (Lamp #1)	Not Used	Not Used
6	Green Level (Lamp #1)	Not Used	Not Used
7	Blue Level (Lamp #1)	Not Used	Not Used
8	Red Level (Lamp #2)	Not Used	Not Used
9	Green Level (Lamp #2)	Not Used	Not Used
10	Blue Level (Lamp #2)	Not Used	Not Used
11	Red Level (Lamp #3)	Not Used	Not Used
12	Green Level (Lamp #3)	Not Used	Not Used
13	Blue Level (Lamp #3)	Not Used	Not Used
14	Red Level(Lamp #4)	Not Used	Not Used
15	Green Level (Lamp #4)	Not Used	Not Used
16	Blue Level (Lamp #4)	Not Used	Not Used

NOTE: LAMP #1 is the right hand lamp if you are facing the front of the unit.

MENU NAVIGATION

MENU

DMX ADDRESS — A001 — ENTER — Left character flashes / Up / Down = change address / Enter = save and activate — ENTER

UP/DOWN

MODE — Nod1 — ENTER — Left character flashes / Up / Down = change mode / Enter = save and activate — ENTER

UP/DOWN

INVERT DISPLAY — P1 — ENTER — Left character flashes / Up / Down = change display / Enter = save and activate — ENTER

UP/DOWN

FLASH ALL — FL01 — ENTER — Left character flashes / Up / Down = change speed / Enter = save and activate — ENTER

UP/DOWN

FADE COLORS — FA01 — ENTER — Left character flashes / Up / Down = change speed / Enter = save and activate — ENTER

UP/DOWN

RUN PROGRAM — Pr01 — ENTER — Left character flashes / Up / Down = change program / Enter = save and activate — ENTER

UP/DOWN

SEQUENCE COLORS — SP01 — ENTER — Left character flashes / Up / Down = change speed / Enter = save and activate — ENTER

UP/DOWN

SOUND SEQUENCE — SonA — ENTER — Left character flashes / Enter = save and activate — ENTER

UP/DOWN

SOUND FLASH — SonF — ENTER — Left character flashes / Enter = save and activate — ENTER

DOWN

WARRANTY

This product is warranted for a period of TWO YEARS from the date of purchase against defects in materials and workmanship.

This warranty is subject to the following restrictions and conditions:

A) If service is required, you may be asked to provide proof of purchase from an authorized Lightronics dealer.

B) This warranty is valid only for the original purchaser of the unit.

C) This warranty does not apply to damage resulting from abuse, misuse, accidents, shipping, and repairs or modifications by anyone other than an authorized Lightronics service representative.

D) This warranty is void if the serial number is removed, altered or defaced.

E) This warranty does not cover loss or damage, direct or indirect arising from the use or inability to use this product.

F) Lightronics reserves the right to make any changes, modifications, or updates as deemed appropriate by Lightronics to products returned for service. Such changes may be made without prior notification to the user and without incurring any responsibility or liability for modifications or changes to equipment previously supplied. Lightronics is not responsible for supplying new equipment in accordance with any earlier specifications.

G) This warranty is the only warranty either expressed, implied, or statutory, upon which the equipment is purchased. No representatives, dealers or any of their agents are authorized to make any warranties, guarantees, or representations other than expressly stated herein.

H) This warranty does not cover the cost of shipping products to or from Lightronics for service.

I) Lightronics Inc. reserves the right to make changes as deemed necessary to this warranty without prior notification.