

## FEATURES AND SPECIFICATIONS

LEDs: 18, 6W each (Warm White, Cool White, 2in1)  
 Beam angle: 45° (25° optional)  
 Control system: DMX512 + Stand Alone Modes  
 DMX channels: 1/2/3/4/5  
 DMX connectors: 3 pin XLR  
 Voltage: 120-240 VAC 50/60Hz  
 Max power consumption: 120 Watts  
 Refresh Rate: > 3000Hz  
 Color Temp.: 3200K - 7000K  
 Cooling: Intelligent Fan  
 Body material: Die Cast Aluminum  
 Body color: Black (White optional)  
 Size: 9.9"L x 9.9"W x 4.5"D (without brackets)  
 Weight: 12.5 lbs. (4.5kg)

## DESCRIPTION

The FXLD618FRP214 is a variable white LED lighting fixture. It is suitable for stage, house of worship, entertainment venues, and other artistic applications. It has several stand-alone control modes and can operate via a DMX512 external signal.

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

## INSTALLATION

### LOCATION

The FXLD618FRP214 is rated IP20 and is intended for INDOOR USE ONLY.

Locate the unit in a well ventilated area away from moisture and heat. Keep the vent holes clear. Holes are provided on the yokes to install a lighting bar pipe clamp. Use a safety cable when hanging the fixture.

## POWER CONNECTIONS



**CAUTION**  
**RISK OF ELECTRIC SHOCK**

The FXLD618FRP214 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. 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.



The white turn and lock connector on the unit is used to pass power on to another FXLD618FRP214 unit. A mating white connector is also provided.

Caution is advised since the line cord is rated for approx. 7 Amps maximum.

**THE SAFETY GROUND TERMINAL ON THE POWER CABLE MUST BE USED.**

## 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**

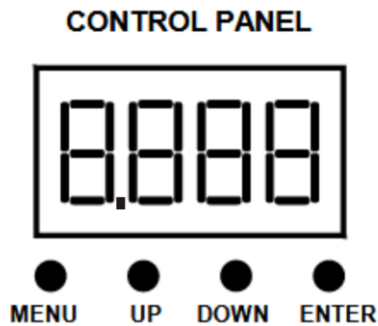
This unit uses 3 pin XLR type connectors. The FXLD618FRP214 receives a DMX signal on the 3 pin MALE connector on one side of the unit. The 3 pin FEMALE connector is used to connect the next DMX device on the control chain.

**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 one side of the unit is used to set the operating options. It consists of an LED display and four buttons (MENU, UP, DOWN, and 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.

There are 8 operation modes: DMX, Color Fade, Color Change, Color Select, Manual Level (2 selections), Demo, Sound, and Delay.

The display will default to **0XXC**, which is a display of the current LED plate temperature. The fan on the unit will only turn on when temperature is at or above 45° C and turns off at or below 34° C.

**DMX OPERATION**

Use the **AXXX** 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 FXLD618FRP214 fixture can be configured as a 1 channel, 2 channel, 3 channel, 4 channel, or 5 channel unit.

Set the **CHXX** menu to **01** (1 channel), **02** (2 channel), **03** (3 channel), **04** (4 channel), or **05** (5 channel).

Detailed information on DMX channel operation is given in the tables DMX VALUES AND FUNCTIONS.

**MANUAL OPERATION**

If there is no DMX signal provided to the unit then setting any of these will result in the unit that was set acting as a master. DMX signals will override all manual settings. The unit has an LED on the menu display (decimal point). If the LED is flashing, the unit is not receiving signal either from a DMX controller or from a master fixture. LED will disappear once DMX is present.

**COLOR FADE (CFXX)**

The Color Fade mode cycles smoothly through 3 preset color temperature settings. Use the **CFXX** menu to set the speed and activate the option. The range is from 0 to 99 (99 is fastest and 00 is the slowest).

**COLOR CHANGE (CCXX)**

The color change mode cycles through 3 preset color temperature settings at a user defined speed. Use the **CCXX** menu to set the rate of speed at which the colors change. The range is from 0 to 99 (99 is fastest and 00 is the slowest).

**COLOR SELECT (CSXX)**

For additional manual operations you can use the Color Select menu (**CSXX**) to select one of three preset color temperature settings.

**Warm White/Cool White MANUAL LEVEL CONTROL**

You can operate the individual color levels manually using the **u000** (warm white), and **E000** (cool white) menus. Use the UP and DOWN buttons to change the level, Push ENTER when done. The range is 000 - 255 (255 is maximum).

**DEMO MODE (dENo)**

The Demo mode is a stand-alone mode designed to test the unit. The Demo mode will not work if the unit is receiving DMX. Exit Demo mode by entering Channel mode menu option or insert a DMX signal.

**SOUND MODE (Soun)**

The unit reacts to sounds by cycling through 3 preset color temperatures. There are no other settings within this mode.

**SIGNAL RESPONSE RATE (dEL0)**

Provides a signal response cushion to smooth out LED dimming operation. The **dEL0** setting is for no cushion, and **dEL1** activates the response cushion feature.

**MAINTENANCE AND REPAIR**

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

**TROUBLESHOOTING**

Check that you have power applied to the unit.

Check the DMX control cable.

Check the address settings of the unit and the controller.

If no DMX signal is present, there will be a flashing decimal point between 1<sup>st</sup> & 2<sup>nd</sup> character on display.

**CLEANING**

Do not use harsh chemicals or solvents when cleaning the fixture. A mild detergent can be used sparingly if needed. Ensure that the unit is completely dry before re-use.

**REPAIR**

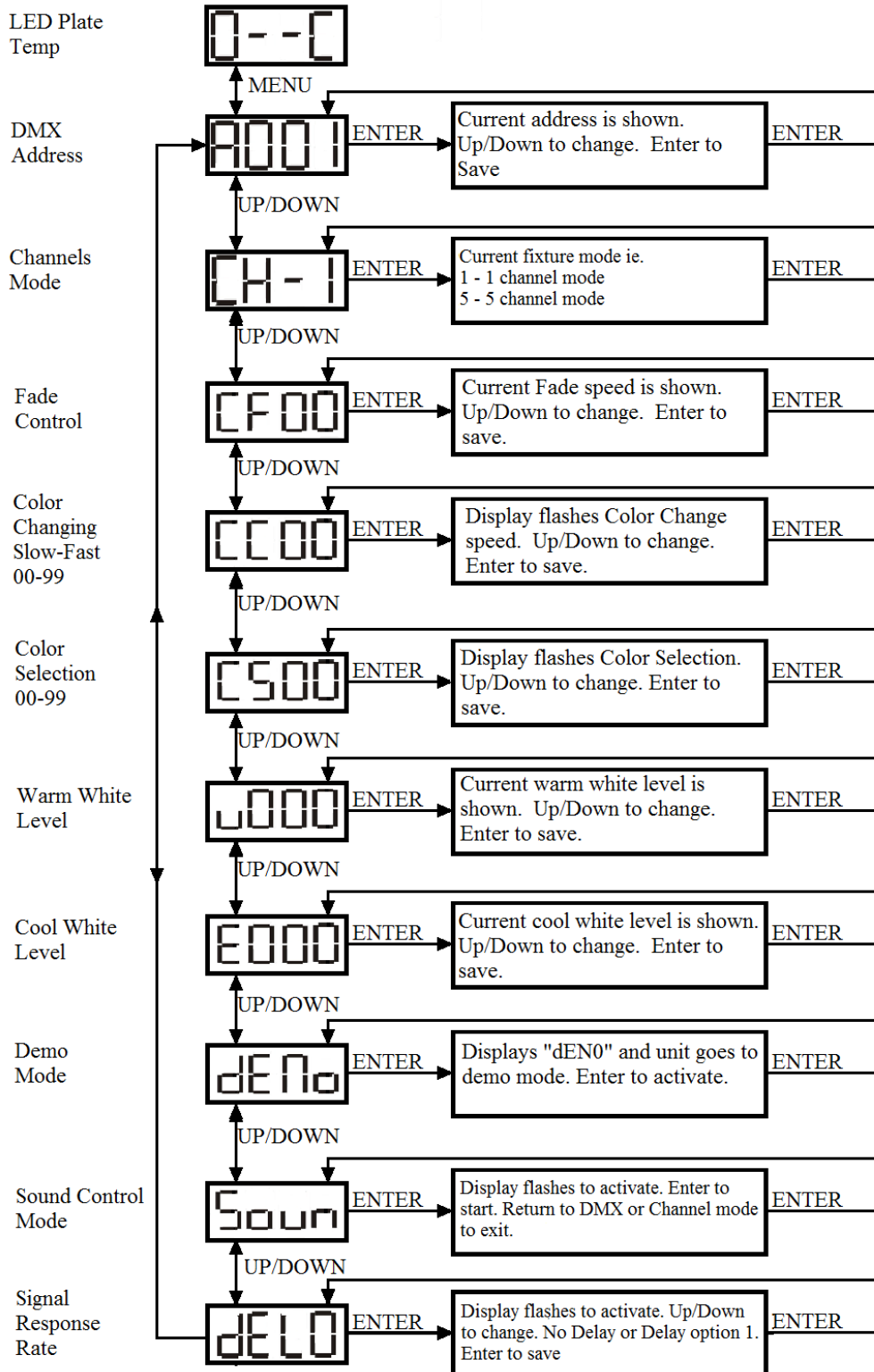
The fixture contains a 2 Amp 250VAC, fast acting, 5mm x 20mm externally accessible fuse. Replace the fuse **ONLY** with the same size and type.

The FXLD618FRP214 does not contain any other user serviceable parts. 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.

**FXLD618FRP214 LED FIXTURE  
OWNERS MANUAL**

**MENU NAVIGATION**



**FXLD618FRP214 LED FIXTURE  
OWNERS MANUAL**

Version 1.0

04/26/2019

## DMX VALUES AND FUNCTIONS

### 1 CHANNEL MODE

CHANNEL NO.	FUNCTION
1	0 - 255 Master Dimmer

### 2 CHANNEL MODE

CHANNEL NO.	FUNCTION
1	0 - 255 Warm White Level
2	0 - 255 Cool White Level

### 3 CHANNEL MODE

CHANNEL NO.	FUNCTION
1	Master Dimmer
2	0 - 255 Warm White Level
3	0 - 255 Cool White Level

### 4 CHANNEL MODE

CHANNEL NO.	FUNCTION	VALUE	DESCRIPTION
1	Master Dimmer	0-255	0%-100% Linear from dark to bright
2	Strobe Control	0-3	No Strobe
		4-127	Normal Strobe, speed from slow to fast
		128-131	No Strobe
		132-255	Random Strobe
3	Warm White Level	0-255	0%-100%, Linear from dark to bright
4	Cool White Level	0-255	0%-100%, Linear from dark to bright

### 5 CHANNEL MODE

CHANNEL NO.	FUNCTION	VALUE	DESCRIPTION
1	Master Dimmer	0-255	0%-100%, Linear from dark to bright
2	Strobe Control	0-3	No Strobe
		4-127	Normal Strobe, speed from slow to fast
		128-131	No Strobe
		132-255	Random Strobe
3	Warm White Level	0-255	0%-100%, Linear from dark to bright
4	Cool White Level	0-255	0%-100%, Linear from dark to bright
5	Static Color Preset	0-63	Channels CH2 - CH4 values active
		64-127	Static Warm White (CH2 - CH4 functions disabled)
		128-191	Static Cool White (CH2 - CH4 functions disabled)
		192-255	Static Neutral White (CH2 - CH4 functions disabled)



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

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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.