User Manual

Long Par 2410 RGBW

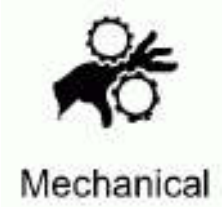
Protection Against Fire

1. Maintain a minimum of 1 50cm distance from any type of flame
2. Replace fuse only with the specified type and rating
3. Do not install the unit to close a heat source
4. Make sure cable are properly secured away from unit movement
5. Maximum surface operating temperature 80°

Protection Against Electrical

1. Disconnect power before servicing
2. The unit must be earthed (electronically grounded)

Protection Against Mechanical Hazards



1. Use safety chain when hanging unit
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock

Specifications:

Model: Long Par 2410
Light source: US Cree RGBW 10W LED X 24pcs
Input voltage: 90-250v/50-60Hz
Lens: 25degree/45degree
Display: LED display
DMX Channel: 4/5/9 CH
Dimmer: 0-100%;16bit
Connector: Hard-wired Power&DMX cables
Protection rating: IP65
Dimension: 300x230x320mm
N.W: 6.8KGS

Features

- ●Multi-Colors
- ●Color Strobe
- ●Electronic Dimming 0-100%
- ●DMX-512 protocol
- ● Master/Slave synchronization
- ● LED operation menu with function buttons
- ● Daisy Chain Units Together in DMX Mode
- ●Sound control

Set UP

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the voltage required for your every suit. Every unit is available in 90V-240v version. Because line voltage may vary from venue to venue, you should be sure your unit voltage matches the wall outlet voltage before attempting to operate you unit.

DMX Linking: To ensure proper DMX data transmission, when using several DMX units try to use the shortest cable path possible. The order in which units are connected in a DMX line does not influence the DMX addressing. For example; a unit assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a unit is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Operating Instructions

Operating Modes: You can use the suit in 4 ways:

- Auto Mode-The unit will automatically chase through the different colors.
- DMX control mode – This function will allow you to control each individual units traits with a standard DMX 512 controller.
- Sound control mode- When music play. The unit will work with music beat.
- Master-slave mode – One unit will work as the master in the one of the above three modes, other units in the chain will work in synchronization towards the master.

Main Power Connection

Caution!

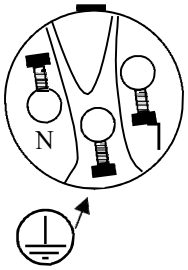
1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically This unit must be earthed.
3. (electronically grounded)
4. Replace fuse only with the specified type and rating.

The occupation of the connection-cable is as follows:

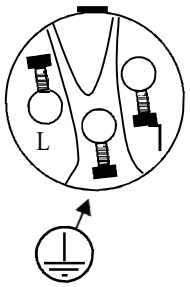
This fixture is equipped with an electronic power supply that will let the unit operate from 90V to 240V from 50Hz to 60Hz

Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground	⏚	⏚

110V Connection



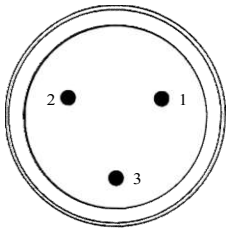
220V Connection



DMX-512 Connection

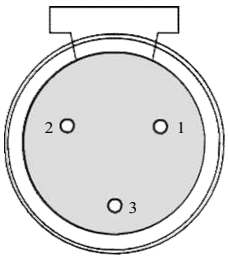
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input



1. Shield
2. Signal (-)
3. Signal (+)

DMX—output

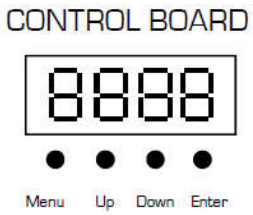


Caution!

At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 3 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available.

Menu Map

Main Control Menu



The control board on the fixture base is your Interface to access and control all the functions on the unit. Its digital display gives you a code view of the options and functions. The following will explain each function and its options

MAIN MENU	SUB-MENU		DESCRIPTION
STAT	R	0-255	Red LED Color
	G	0-255	Green LED Color
	B	0-255	Blue LED Color
	W	0-255	White LED Color
	A	0-255	Amber LED Color
	I	0-255	LED Color
	S	0-255	LED Color
AUTO	AT. (01)	SP(0-99)	Effect 1 /Speed Slow-Fast
	AT. (02)	SP(0-99)	Effect 2 /Speed Slow-Fast
	AT. (03)	SP(0-99)	Effect 3 /Speed Slow-Fast
	AT. (04)	SP(0-99)	Effect 4 /Speed Slow-Fast
	AT. (05)	SP(0-99)	Effect 5 /Speed Slow-Fast
	AT. (06)	SP(0-99)	Effect 6 /Speed Slow-Fast
	AT. (07)	SP(0-99)	Effect 7 /Speed Slow-Fast
	AT. (08)	SP(0-99)	Effect 8 /Speed Slow-Fast
	AT. (09)	SP(0-99)	Effect 9 /Speed Slow-Fast
	AT. (10)	SP(0-99)	Effect 10 /Speed Slow-Fast
DMX	d .1	1-512	DMX Address Setting
PRES	4CH		DMX Channel Modes Selection
	5CH		
	9CH		
Id	Id.(01-66)		ID Setting
SET	REST		Reset
	IDSW	ON	ID Setting ON
		OFF	ID Setting OFF
	BSW	ON	White Balance ON
		OFF	White Balance OFF
	CURE	CUR0	NO Dimmer Curve
		CUR1	Dimmer Curve 1
		CUR2	Dimmer Curve 2
		CUR3	Dimmer Curve 3
	OFFL	HLOD	Fixture ON When Disconnect to DMX
		CLEA	Fixture OFF When Disconnect to DMX

	DIM	DIM0	Dimmer-No Dalay
		DIM1	Dimmer Delay-Fastest
		DIM2	Dimmer Delay-Fast
		DIM3	Dimmer Delay-Slow
		DIM4	Dimmer Delay-Slowest
	POWS	ON	Power Reduce When Necessary
		OFF	Keep Full Power
CAL1	R. XXX	25-255	White Balance Setting
	G. XXX	25-255	
	B. XXX	25-255	
	W. XXX	25-255	
	A. XXX	25-255	
	I. XXX	25-255	
KEY	ON		BackLight Setting
	OFF		
TEMP	-25℃-100℃		Working Temperataure
PWMF	1.2-24K		Refresh Rate Setting

DMX Profile

4 Channels Mode

Channel	Function	Description	Value
1	LED Color	Red LED Intensity	000-255
2	LED Color	Green LED Intensity	000-255
3	LED Color	Blue LED Intensity	000-255
4	LED Color	White LED Intensity	000-255

5 Channel Mode

Channel	Function	Description	Value
1	Dimmer	0-100%	000-255
2	LED Color	Red LED Intensity	000-255
3	LED Color	Green LED Intensity	000-255
4	LED Color	Blue LED Intensity	000-255
5	LED Color	White LED Intensity	000-255

9 Channel Mode

Channel	Function	Description	Value
1	Dimmer	0-100%	000-255
2	Strobe	No function	000-013
		Random strobe	014-255
3	LED Color	Red LED Intensity	000-255
4	LED Color	Green LED Intensity	000-255
5	LED Color	Blue LED Intensity	000-255
6	LED Color	White LED Intensity	000-255
7	Fixed colors	Color 1	000-010
		Color 2	011-030
		Color 3	031-050
		Color 4	051-070
		Color 5	071-090
		Color 6	091-110
		Color 7	111-130
		Color 8	131-150
		Color 9	151-170
		Color 10	171-200
	CCT	CCT 1	201-205
		CCT 2	206-210
		CCT 3	211-215
		CCT 4	216-220
		CCT 5	221-225
		CCT 6	226-230
		CCT 7	231-235
		CCT 8	236-240
		CCT 9	241-245
		CCT 10	246-250

		CCT 11	251-255
8	Macro	No function	000-020
		Effect 1	021-030
		Effect 2	031-040
		Effect 3	041-050
		Effect 4	051-060
		Effect 5	061-070
		Effect 6	071-080
		Effect 7	081-090
		Effect 8	091-100
		Effect 9	101-110
		Effect 10	111-120
		Sound control	121-255
9	Speed	Slow to Fast	000-255

Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe off the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the unit operates (i.e. smoke, fog residue, dust, dew).

Trouble Shooting

Listed below are a few common problems the user may encounter, with solutions.

Unit not responding to DMX:

Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 5 may be “hot”). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.