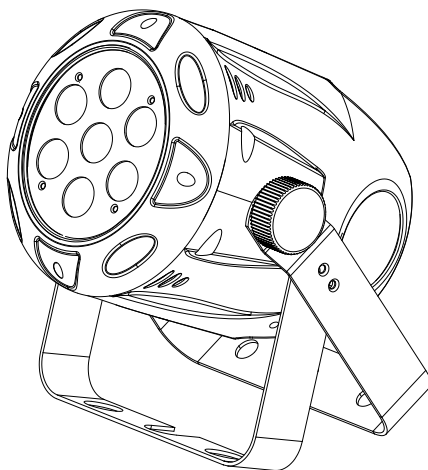# CLF Tricolor Mini Par

Item:156100

Pre-programmed LINKABLE STAND / ALONE DMX 512 Sound Activaton CE

1.BEFORE YOU BEGIN

What is included

✦ 1 x Fixture
✦ 1 x Power cable with plug
✦ 1 x User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton; check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC POWER

This fixture has an auto-switching switch-mode power supply that can accommodate a wide range of input voltages. The only thing necessary to do before powering on the unit is to make sure the line voltage you are applying is within the range of accepted voltages. This fixture will accommodate between 100V and 240V AC 50-60 Hz. Each light is connected end to end by the power socket "POWER IN" and "POWER OUT" on the light,

Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of products.

Safety Instructions

WARNING!

Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product..

The following symbols are used to identify important safety information on the product and in this manual:

DANGER! Safety hazard. Risk of severe injury or death	DANGER! Hazardous Voltage. Risk of lethal or severe electric shock.	WARNING! Fire hazard	WARNING! LED light emission. Risk of eye injury.	WARNING! Refer to user

- This light belongs to grade I protection device, therefore the light must connect to the earth excellently. And the power connection must be operated by the professional technician.
- Make sure that the working voltage will not higher or lower than the rated value.
- Make sure that the cable didn't be damage or lacerated by sharp.
- The light must be power off when it's standing idle or before clearing.
- The cable must with plug, and you must pull out the cable by handle the plug.
- Please be careful when installing the lighting. Never touch the bared cable, or it will cause the deadly electric shock.
- Please use the suitable and safe cable to connect the light.
- Please never remodel the light randomly, we will not take the guarantee for the faulty and damage which caused by dismantle、 repair or remodel of the nonprofessional person.
- Maximum ambient temperature 40°C. Do not operate fixture at temperatures higher than this.
- Never connect the device to a dimmer pack.
- Do not daisy chain power to more than 8 units @ 120V and 15 units @ 230V.
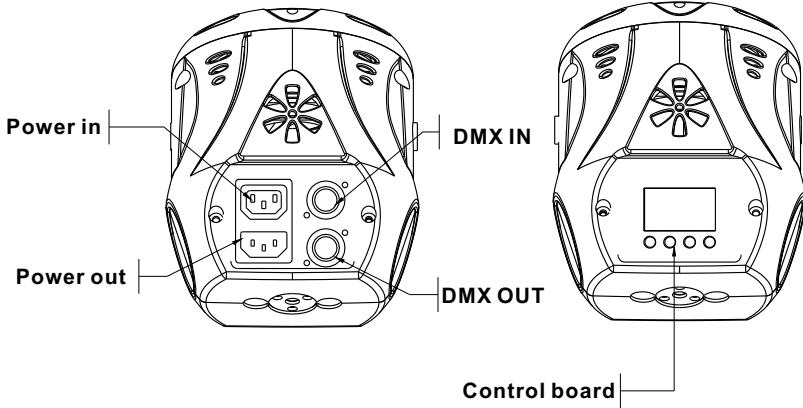
2.INTRODUCTION

Specifications

- Voltage Rating: AC100V ~ 240V 50-60Hz
- Power Rating: 30W
- LED Quantity: 7 pcs 3 in 1 LEDs(RGB)
- LED: 350mA
- Beam Angle: 20°/30° /40°
- Ingress Protection: IP20
- Product Size: 200x 152 x230mm
- Package Size: 245x230x275 mm
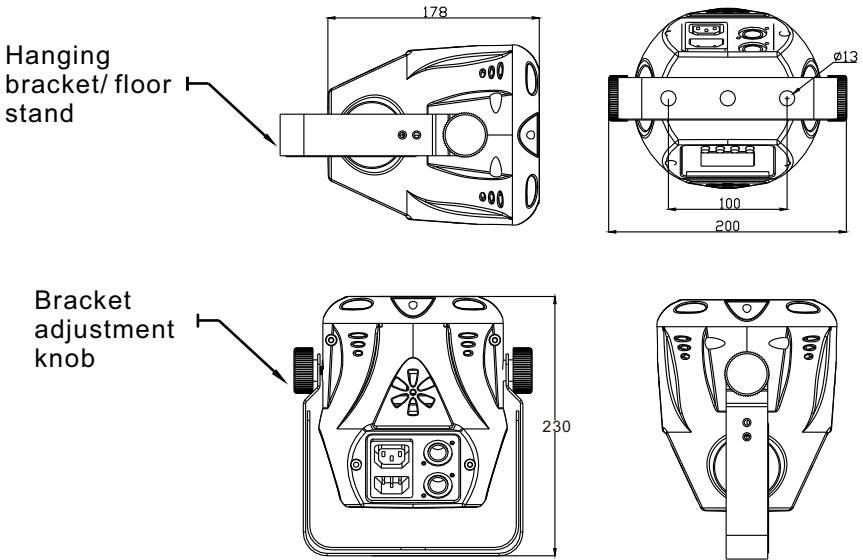- N/W:2.0Kg
- G/W:2.8Kg

Features

- RGB color mixing with or without DMX controller
- 5 distinct dimming curves
- User defined program/ inner optional program
- LED display with password protection
- Transfer custom programs between fixtures
- Operating Modes: DMX512 Connection with ID Address/Master & Slave…
- DMX Channels: 10CH/04CH/03CH
  10 channels: Dimmer+RGB+Macro + strobe + AUTO +AUTO speed+ dimming
  　　　　　　　 speed +ID
  04 channels:Dimmer+RGB
  03 channels:RGB

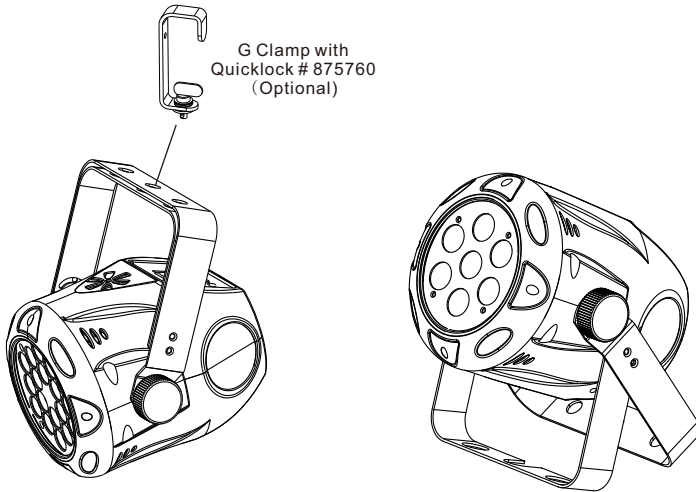# Product Overview

Power in

DMX IN

Power out

DMX OUT

Control board

Dimensions

Hanging bracket/ floor stand

178

Ø13

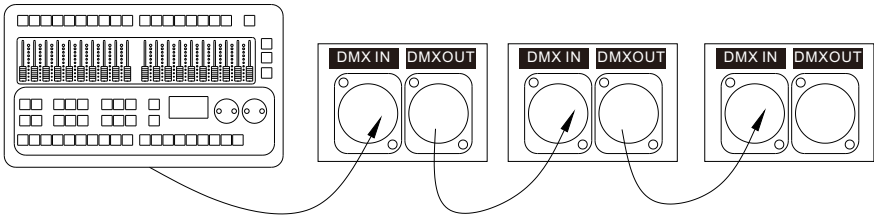100

200

Bracket adjustment knob

230

3.SETUP

Installation Requirement

- This product can be used in a variety of situations, can hang and put on the ground.
- If hanging the fixture for over head use, then please follow the below steps.
- Please choose the suitable location to put or hang the light when installing it. You must use the exclusive clamp hanger and screw when hanging it, and make sure the weight of the light is within limits of the hanger.
- Please make sure without any flammable objects within 0.5m when installing the light.
- The installation should be operated by professional person; any irregular installation will cause the body injury or equipment damage.
- Block access below the work area and use suitable and stable platform when installing or servicing fixture.
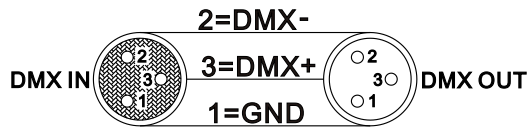
G Clamp with
Quicklock # 875760
（Optional)

Connection of DMX Signal Wire

1   Please use the fixture controller wire specially when use the DMX512 Controller. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.

2   Connect the end of the cable coming from the first fixture which will have a (male) 3 pin connector to the input connector of the next fixture consisting of a (female) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

3   This product can be connected numerous lamps in series without the need for the signal amplifier; the signal will not be weakened.

DMX IN   DMXOUT   DMX IN   DMXOUT   DMX IN   DMXOUT

3-PIN TO 5-PIN CONVERSION CHART

Note! If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter.

2=DMX-

3=DMX+

1=GND

DMX IN   DMX OUT

3 PIN TO 5 PIN CONVERSION CHART

Conductor	3 Pin Female(output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin2	Pin2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

4.OPERATING INSTRUCTIONS

Control Panel Functions

MODE   ENTER   UP   DOWN

BUTTON	FUNCTION
MODE	Exits from the current menu or function
ENTER	Enables the currently displayed menu or sets the currently selected value in to the selected function
UP	Navigates upwards through the menu list and increases the numeric value when in a function
DOWN	Navigates downwards through the menu list and decreases the numeric value when in a function

Menu Map

MAIN FUNCTION	SUB-FUNCTION	SELECTION	INSTRUCTION
COLO	DIM	000~255 (0 ~ 100%)	User can combine RED, GREEN and BLUE to generate a custom color
	RED		
	GREN		
	BLUE		
AUTO	STRB	00~20	Select strobe frequency
	At00	01~10	10 auto programs available
	Pr00	01~10	chose program from 10 "EDIT"
	VOI	01~03	chooose 01-03 program of sound controlling

MAIN FUNCTION	SUB-FUNCTION		SELECTION	INSTRUCTION
DMX			001 ~ 512	Set DMX start address
RUN	SLAV			Sets the operating mode for the fixture:to receive signal from a DMX controller or Master fixture (SLAV) . Download programs from Master fixture. (LOAD)
	LOAD			
PERS	10CH			10 channels：D+RGB +S…
	04CH			4 channels：Dimmer+RGB
	03CH			3 channels：RGB
ID	01~66			Assign ID address for fixtures
SET	ID		ON/OFF	Enable or disable ID
	UPLD		Password	Upload programs(Password required)
	LOCK		0N~OFF	Enables or Disables password lockout
	DIM		0N~OFF	Enables or Disable Dimmer speed
	REST		Password	Reset factory defaults
	VER			Version number
EDIT	PR00 01~10 custom	SC00 01~30 scene	RED	User can combine RED, GREEN, and BLUE to generate a custom color
			GRED	
			BLUE	
			STRB	(0~20Hz)Select strobe frequency
			TIME	(0~255) step time
			FADE	transition time of last step to current step

Operating instructions

1.Upload custom program or set to another machine

Set all the fixtures which receive custom programs from the source fixture as 【LOAD 】

1. 1、Press MODE button until 【RUN】 is displayed.
1. 2、Then press ENTER button, use UP/DOWN buttons until【LOAD】 is displayed. Press MODE return to MENU
1. 3、On the Master unit, Press MODE button until【SET】 is displayed on source fixture.
1. 4、Then press ENTER button, use UP/DOWN buttons until【UPLD】 is displayed.
1. 5、Then press ENTER button, Input password UP, UP, DOWN, DOWN, press ENTER.All the lights display yellow color when uploading.After upload finish,it will turns to green which means upload successful.If has mistake,it will turns to red color.
1. 6、Press <MODE> on the source unit to exit the upload mode.

2 Enable password lock

【SET】 — 【LOCK】 — 【ON】/【OFF】 —{ENTER}
【ON】 enable lock，【OFF】disable lock
Enable the password lock, control panel in the boot or go into standby automatically take effect, this time to operate lamps need to enter your password.
{ MODE、UP、MODE、DOWN、MODE、UP、MODE、DOWN }—{ENTER}

3 Factory reset

【SET】 — 【REST】 —{UP、UP、DOWN、DOWN}—{ENTER}
　　Note: The password is permanently set as {UP、UP、DOWN、DOWN}
　　Then press ENTER button

4 Custom program

【EDIT】 — 【PR01】 — 【PSC01】

4. 1、Press MODE button until 【EDIT】 is displayed, press ENTER access program mode.
4.2、Select the program you'll edit by pressing UP/DOWN buttons. The available range is o1-10.
4.3、Select the step you'll edit by pressing UP/DOWN buttons, and then press ENTER button access program.

When 'R000' display on the screen, press the UP/DOWN button to choose the value. Repeat this step to edit the value of 'G000', 'b000', 'S000', 'T000' and 'F000'. Please pay attention for the 'S' is the rate of strobe. 'T' is the operating time of the present step, the value is between 0 to 255. 'F' is the transitional time from previous step to present step. The transitional time is the quickest when the FADE is 0. Notice: Please operate the program in turn, from the 01st step to the 30th step. When the operating program less than 30 steps, please set the final step value be 0

4.4、 Repeat step 3 till complete programming.

4.5、Exit program mode by pressing MODE buttons three times.

DMX512 Controller Mode

1、Setting DMX512 Address

【DMX】— 【001--512】
Access control panel function by pressing MODE until 【DMX】 is displayed. Press ENTER, add or reduce channels by pressing UP/DOWN between 001 and 512. Press MODE to exit.

2、Setting Channels

【PERS】— 【10CH、04CH、03CH】
Access control panel function by prekssing MODE until 【PERS】 is displayed. Press ENTER button, select DMX channel by pressing UP/DOWN, Press MODE to exit.

03 channels：

Channel	Value	Description
1	000~255	Red
2	000~255	Green
3	000~255	Blue

04 channels：

Channel	Value	Description
1	000~255	Dimming
2	000~255	Red
3	000~255	Green
4	000~255	Blue

10 channels：STAG

Channel	Value	Description
1、Dimming	000~255	0-100%
2、RED	000~255	0-100%(Or STEP TIME when CUS.01-10 is activated)
3、Green	000~255	0-100%(Or FADE TIME when CUS.01-10 is activated)
4、Blue	000~255	0-100%
5、Macro color control	000~009	No Function
	010~255	Macro color control
6、Strobe	000~255	Strobe(00~20Hz)
7、auto & custom program	000~009	No Function
	010~019	Out1 AUTO1
	020~029	Out2 AUTO2
	030~039	Out3 AUTO3
	040~049	Out4 AUTO4
	050~059	Out5 AUTO5
	060~069	Out6 AUTO6
	070~079	Out7 AUTO7
	080~089	Out8 AUTO8
	090~099	Out9 AUTO9
	100~109	Out10 AUTO10
	110~119	cust1 custom program 1
	120~129	Cust2 custom program 2
	130~139	Cust3 custom program 3
	140~149	Cust4 custom program 4
	150~159	Cust5 custom program 5
	160~169	Cust6 custom program 6
	170~179	Cust7 custom program 7
	180~189	Cust8 custom program 8
	190~199	Cust9 custom program9
	200~209	Cust10 custom program10
	210~219	chooose 01 program of sound controlling
	220~229	chooose 02 program of sound controlling
	230~225	chooose 03 program of sound controlling

Channel	Value	Description
8、Auto Speed	000~255	0~100%(only when using ch.7)
9、Dimming speed	000~255	Dimming speed
10、ID	000~255	ID address selection

ID ADDRESS SELECTION

VALUE	FUNCTION		VALUE	FUNCTION		VALUE	FUNCTION
000~009	All Ids		212	ID23		235	ID46
010~019	ID1		213	ID24		236	ID47
020~029	ID2		214	ID25		237	ID48
030~039	ID3		215	ID26		238	ID49
040~049	ID4		216	ID27		239	ID50
050~059	ID5		217	ID28		240	ID51
060~069	ID6		218	ID29		241	ID52
070~079	ID7		219	ID30		242	ID53
080~089	ID8		220	ID31		243	ID54
090~099	ID9		221	ID32		244	ID55
100~109	ID10		222	ID33		245	ID56
110~119	ID11		223	ID34		246	ID57
120~129	ID12		224	ID35		247	ID58
130~139	ID13		225	ID36		248	ID59
140~149	ID14		226	ID37		249	ID60
150~159	ID15		227	ID38		250	ID61
160~169	ID16		228	ID39		251	ID62
170~179	ID17		229	ID40		252	ID63
180~189	ID18		230	ID41		253	ID64
190~199	ID19		231	ID42		254	ID65
200~209	ID20		232	ID43		255	ID66
210	ID21		233	ID44			
211	ID22		234	ID45			

MASTER DIMMER

Channels 1 controls the intensity of the currently projected color
When the slider is at the highest position (255), then the intensity of the output is at themaximum.

RED, GREEN AND BLUE COLOR SELECTION

Channels 2, 3 and 4 control the intensity ratio of each of the Red, Green, & Blue LEDs.
1,2,3 and 4 channel can be used in combination

COLOR MACROS

Channel 5 selects the required Color Macro.
Channel 5 has priority over Channels 2, 3,& 4 .
Channel 1 is used to control the intensity of the current Color Macro.

STROBE

Channel 6 controls the strobe of Channels 1 through 5.
Channel 6 has priority over Channels 2, 3, 4 & 5.
Speed of the strobe is adjustable from 0 to 20 Hz.

AUTO & CUSTOM PROGRAMS

Chanel 7 selects the preset Auto/Custom programs 1~10
When activating the Auto/Custom programs, it is then possible to control the Step time and Fade time by using Channels 2 & 3 respectively.
Channel 7 has priority over channels 2-6.

DIMMER SPEED

Channel 9 is for selecting the dimmer mode and dimmer speed.
When channel 9 is not activated, then RGB and Master Dimmer are linear.
The dimmer modes 1, 2, 3, and 4 are different speeds of the nonlinear dimming curves

ID ADDRESS SELECTION

Use channel 10 to select ID addressed fixtures.
Each independent DMX address can have up to 66 ID addressed fixtures.
ID address "0" allows control of all fixtures simultaneously.
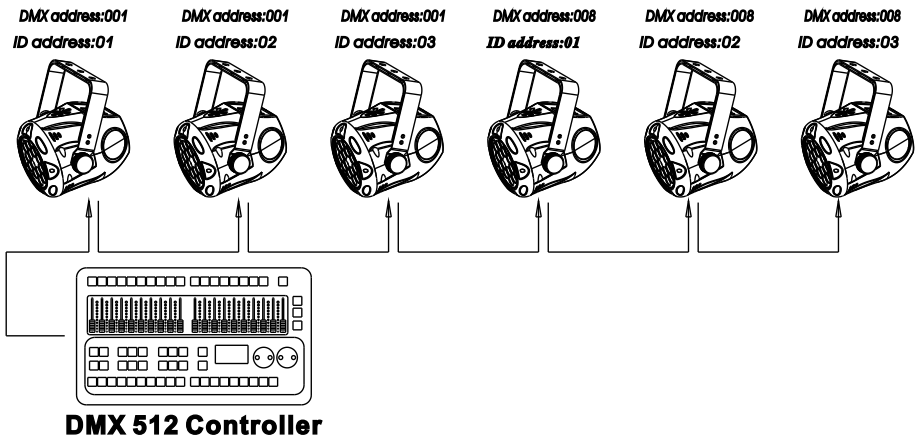
ID Address Instructions

1.Setting ID address

1、Access control panel function by pressing MODE until 【ID】 is displayed.
2、Press ENTER, increase or reduce ID values by pressing UP/DOWN between 01 and 66.
3、Press MODE to exit.

2. Enable or disable ID

【SET】— 【ID】— 【ON-OFF】

1、 Access control panel function by pressing MODE until 【 SET】 is displayed.
2、Press ENTER, select by pressing UP/DOWN until is 【ID】 displayed.
3、Press ENTER, turn on or off ID addressing by pressing UP/DOWN buttons.
4、Press MODE to exit.

For every DMX512 address the user can set 66 separate ID addresses. ID addressing is a secondary function in DMX512 mode. In DMX512 Controller Mode, the user can simultaneously control the individual DMX address of all lights, and can control the lights which have separate ID address in independent DMX512.

DMX address:001   DMX address:001   DMX address:001   DMX address:008   DMX address:008   DMX address:008
ID address:01   ID address:02   ID address:03   ID address:01   ID address:02   ID address:03

DMX 512 Controller

Select 10 channel on fixture's control panel (Please refer to DMX512 Channels Selection). The figure above shows a simple DMX layout which has used three units at each DMX address. The three units have different ID addresses. In the DMX address: 001, the user can control the first three lights simultaneously. When using channel 10 select the channel number is 020-029 and ID Address=02, the controller can control the second light individually. When using channel 10 select the channel number is 000-010 and ID Address=00, all the lights are in common use at the same DMX address.

Master/Slave Control Mode

1、Setting master machine

Access control panel function by pressing MODE until 【AUTO】 is displayed.
Press ENTER, select 【ATXX】 、 【PRXX】OR【VIC】 by pressing UP/DOWN buttons.
Press ENTER, and then press MODE to exit.
You can choose 【ATXX】 pre-set programs, the range is 【o1--10】.
you can choose 【PRXX】 custom programs, the range is 【o1--10】
.Or you can choose 【VOI】 sound controlling, the range is 【o1--03】

2、Setting slave machine

Access control panel function by pressing MODE until 【RUN】 is displayed.
Press ENTER, press UP/DOWN buttons until the【SLAV】 is displayed.
Press MODE return to MENU

3、Usage of Master/Slave

When two or more fixtures connected, you can set up the first machine as the Master and the followed fixtures as Slaves. The Master can choose pre-set programs. 【ATXX】 、 【PRXX 】OR【VOI】, all the slaves will follow the Master's operation synchronously.
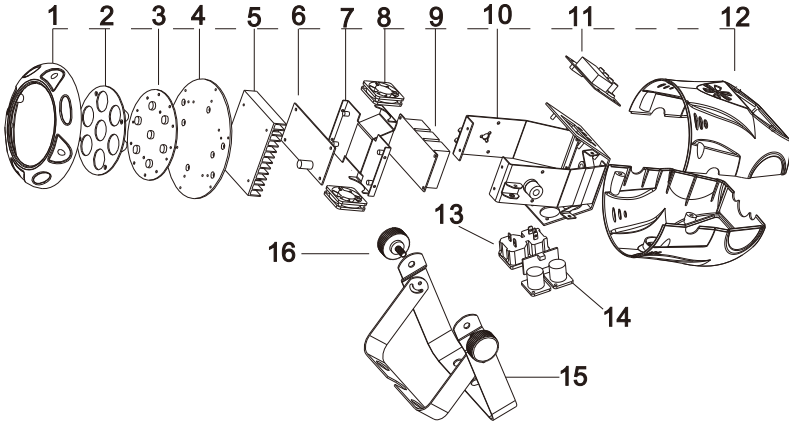
5. APPENDIX
Service Maintenance Guide

Symptom(s)	Possible Solution(s)
1 or more LED's are not illuminating	Clean the fixture regularly to avoid any such failure. This fixture is convection cooled, which means that if the surface is kept clean and free of debris, then proper cooling will be allowed to occur
	An LED may have failed, resulting in an open circuit. In this event, all of the red, green, or blue in a single module will no longer illuminate. This does not mean that all of the LEDs have failed, but the circuit is wired in series.
	An LED may have failed, resulting in a short circuit. In this event, only the single LED which has failed will no longer function. This does not mean that all of the LEDs have failed, but the circuit is wired in series.
	-Note: In the event of LED failure, a replacement LED PCB assembly may be purchased directly from Our company
Breaker/Fuse keeps blowing	Check total load placed on the electrical circuit
	Check for a short in the electrical wiring: internal and/or external
Device has no power	Check for power on Mains
	-Note: In the event of autoswitching transformer failure, the unit can be sent in for repair; however, a replacement part can be ordered directly from Our company
Fixture is not responding to DMX	Check Control Panel settings for correct addressing
	Check DMX cables
	Check polarity switch settings on the controller
	Check cable connections
	Call service technician
	-Note: In the event of Display PCB failure, a replacement PCB can be ordered directly from Our company
Loss of signal	Use only DMX cables
	Install terminator
	Note: Keep DMX cables separated from power cables or black lights

Symptom(s)	Possible Solution(s)
COLOR-CON Controller does not function, or does not function properly	Make sure connector is firmly connected to device
	This fixture must be in the correct mode in order to properly respond to the COLOR-CON controller. The correct mode is "DMX" in the onboard Control Panel
Stand alone operation	This fixture has built-in, automatic programs that may be triggered from the onboard Control Board
The display is only showing: ####	The password lockout has been enabled. you can use the password: { MODE、UP、MODE、DOWN、MODE、UP、MODE、DOWN }

Blow-out Diagram.

	Description	Part Number
1	Cover	011385
2	Lens disk	011403
3	Led board	012004
4	Heat radiating aluminum plate	011406
5	Radiator	011392
6	Driver board	012003
7	power supply bracket	011388
8	Fan	008192
9	Switching power supply	008239
10	Metal plate bracket	011387
11	Dispaly board	012092
12	Case housing	011393
13	PowerCon	008179
14	XLR connector	012123
15	Handle	011398
16	Knob	008091