ColorGlo™

PowerPlus™ L575

Installation & Operation Manual

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Thank you for purchasing and installing the ColorGlo™ PowerPlus™ L575. This LED fixture has been designed and built to provide color and white light for a wide range of applications. With proper installation and operation, as detailed in this manual, the PowerPlus L575 fixture will provide safe and reliable operation throughout its rated lifespan.

The PowerPlus L575 is an RGBW (Red, Green, Blue, White) LED color mixing fixture capable of producing 4.3 billion colors and 16.7 million tones of white light. It requires a USITT DMX 512 control signal on a total of four consecutive channels to operate. The fixture includes a IEC-C13 electrical and a XLR DMX 512 output for connection to additional PowerPlus L575 units. This fixture is UL 1598 rated for indoor use only. The PowerPlus L575 fixture connects directly to line voltage at 85-264 VAC/47-65 Hz. The fixture can be mounted for operation in any vertical or horizontal orientation. Environmental conditions for operation must conform to conditions and temperature ranges as detailed in the installation and product specification sections of this manual.

Illustration 1

PowerPlus™ L575 Fixture

Introduction to this Installation and Operation Manual

This manual is intended to provide information for the proper installation and operation of this product. It is not intended to be used as a substitute for any applicable codes and compliance regulations having to do with the installation and operation of this product in any interior structure or environment.

Please read all warnings and notices before installing and operating this product.

Warnings and Notices

WARNING

Read and follow all installation and operation instructions in this manual.
Improper installation and operation of this product can result in a potentially hazardous situation which, if not avoided, could result in death or serious injury.

This product must be installed in accordance with ANSI/NEC 70 National Electric Code by a person familiar with the construction and operation of the product and the hazards involved.

WARNING

AC only.
This product must be connected to a 85 - 265VAC electrical circuit only.
This product is not suitable for outdoor, ingrade or underwater installation.

Product Specifications

Size	24”(60.96cm) x 4”(10.16) x 2.9”(73.6cm)
Input Voltage	85-264 VAC / 47-65 Hz
Input Current	0 - 350mA
Fixture Lumen output	684
Input Power Connect	IEC type C, Standard UL listed cord and plug
Power Outlet	IEC C13
LED	6 Red, 6 green, 6 Blue, 6 White
Control Input/Output	12” pigtails with 5 pin XLR M/F
Control signal input	USITT 1990 DMX 512
Fixture Listing	UL 1598
Internal Power Supply Listing	UL, cUL, TUV, CB, CE
Internal Power Supply	24 VDC
PCB flame rating	UL 94-VO, aluminum substrate
Housing	Extruded aluminum head and base,
Operating Temperature	-40°C /-40°F – +50°C /+122°F
Fixture Finish	Powder coated white – fine texture finish
Weight	6.20 lbs.
Operational orientation	Any
Rotation	Head Rotation Single Axis 180°
Humidity	0 – 95% non-condensing

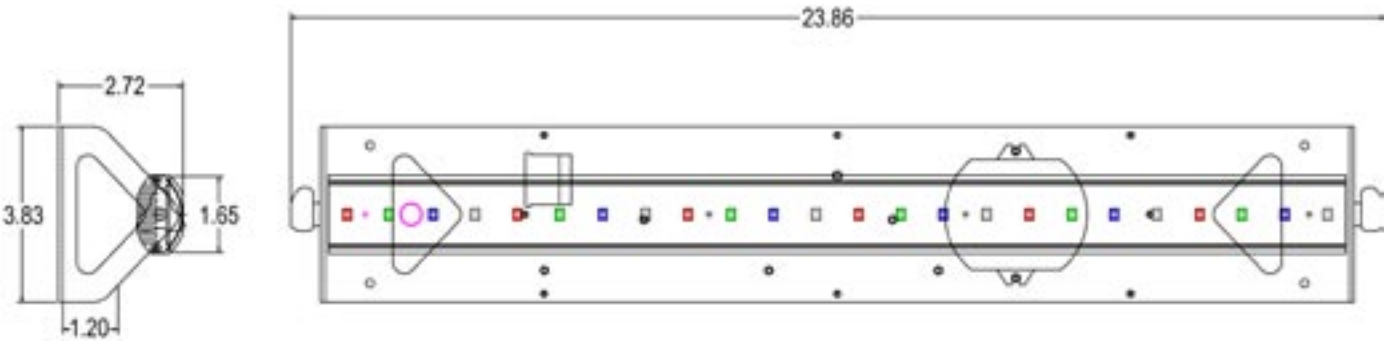

Illustration 2

Product Accessories

Description	Part Number
SunLite - USB-DMX interface	LLS-SL-1300
Rerun Playback Controller	RERUN-A
Rerun 10 Scene Controller	PRE10-A
DMX Cable Extension, 50ft.	DMX-550
DMX Cable Extension, 25ft.	DMX-525
DMX Cable Extension, 10ft.	DMX-510
DMX Cable Extension, 5ft.	DMX-505
Power Cable Extension, 6ft.	BMC-186-6-MF

Note: Each unit comes hard wired with a DMX cable on each end, one in a 12” length and the other in a 17” length.

Note: Each unit comes with a 6’ standard IEC type C male, female connectors for input power.

Unpacking

The PowerPlus L575 is shipped assembled. Package will include this Installation and Operation Manual.

Optional accessories may be included in package. Using the shipper's packing list attached to the outside of the shipping package, ensure that all accessories detailed are included with shipment.

Inspect unit to ensure that main lens is intact and not cracked or damaged, electrical cord, base to head cable and DMX cords are intact and not damaged and there is no other visible damage to the fixture head or base.

Damage to package and or contents are the responsibility of buyer. Follow shipper procedure for documenting and submitting damage claims.

Please recycle or properly dispose of all packaging material.

Mounting

Mount the PowerPlus L575 fixture in any orientation directly to any solid surface using #10 fasteners through the four mounting holes in the base of the unit.

Setting the DMX Address

The PowerPlus L575 is shipped without a specific DMX address set. The DMX address is set using the 9 dip switches located on the top of the power supply/control enclosure. Set the desired DMX address using the PowerPlus L575 DMX address table (page 5) for address dip switch and termination position settings.

Note: Only set the termination switch on the last unit in the DMX cable chain. All other termination switches in the DMX cable chain must be off.

Note: DMX maximum run is 40 units.

PowerPlus™ L575 DMX Address Table

- Dip switch settings indicated in table are read and set from left to right on switch board with red numbers 1 - 9 below switch.
- Dip switch indicated as position 1 is UP position on switch board
- Dip switch indicated as position 0 is DOWN position on switch board
- Dip switches 1 - 8 are used to set DMX address.
- Dip switch 9 is used for DMX termination only. To terminate, place #9 dip switch in UP position. For all other operation, place #9 in DOWN position.

Dip Switch Setting	DMX Channels	Dip Switch Setting	DMX Channels	Dip Switch Setting	DMX Channels
100000000	1 - 4	010100100	293 - 296	110011100	457 - 460
010000000	5 - 8	110100100	297 - 300	001011100	461 - 464
110000000	9 - 12	001100100	301 - 304	101011100	465 - 468
001000000	13 - 16	101100100	305 - 308	011011100	469 - 472
101000000	17 - 20	011100100	309 - 312	111011100	473 - 476
011000000	21 - 24	111100100	313 - 316	000111100	477 - 480
111000000	25 - 28	000010100	317 - 320	100111100	481 - 484
000100000	29 - 32	100010100	321 - 324	010111100	485 - 488
100100000	33 - 36	010010100	325 - 328	110111100	489 - 492
010100000	37 - 40	110010100	329 - 332	001111100	493 - 496
110100000	41 - 44	001010100	333 - 336	101111100	497 - 500
001100000	45 - 48	101010100	337 - 340	011111100	501 - 504
101100000	49 - 52	011010100	341 - 344	111111100	505 - 508
011100000	53 - 56	111010100	345 - 348	000000010	509 - 512
111100000	57 - 60	000110100	349 - 352		
000010000	61 - 64	100110100	353 - 356		
100010000	65 - 68	010110100	357 - 360		
010010000	69 - 72	110110100	361 - 364		
110010000	73 - 76	001110100	365 - 368		
001010000	77 - 80	101110100	369 - 372		
101010000	81 - 84	011110100	373 - 376		
011010000	85 - 88	111110100	377 - 380		
111010000	89 - 92	000001100	381 - 384		
000110000	93 - 96	100001100	385 - 388		
100110000	97 - 100	010001100	389 - 392		
010110000	101 - 104	110001100	393 - 396		
110110000	105 - 108	001001100	397 - 400		
001110000	109 - 112	101001100	401 - 404		
101110000	113 - 116	011001100	405 - 408		
011100000	117 - 120	111001100	409 - 412		
111110000	121 - 124	000101100	413 - 416		
000001000	125 - 128	100101100	417 - 420		
100000100	257 - 260	010101100	421 - 424		
010000100	261 - 264	110101100	425 - 428		
110000100	265 - 268	001101100	429 - 432		
001000100	269 - 272	101101100	433 - 436		
101000100	273 - 276	011101100	437 - 440		
011000100	277 - 280	111101100	441 - 444		
111000100	281 - 284	000011100	445 - 448		
000100100	285 - 288	100011100	449 - 452		
100100100	289 - 292	010011100	453 - 456		

Connection to Power

Connect the first unit to the AC power source by use of an EMT style 1/2” rubber cord strain relief fitting to connect to the structure’s electrical box. Make sure the ground wire is connected. Have a licensed electrical perform the connection to meet NEC requirements. To daisy chain units, use standard IEC type C male, female cables to connect up to 40 units per each connection to the AC source.

Connection to DMX Control

DMX control connection is made using the male XLR connector attached to the PowerPlus L575 fixture. The fixture will operate on 4 consecutive channels of Red - Green - Blue - White from the output of any standard USITT DMX 512 control device. DMX control devices operating at 25Hz or more are recommended for optimum up and down dimming control quality.

Additional fixtures may be connected to the female XLR connector for “daisy chain” DMX control of up to 40 fixtures. It is important to ensure that a single fixture or a fixture that is in the final position of a DMX “daisy chain” must have the DMX signal terminated. This can be done by using the DMX dip switch panel #9 dip switch or with an external terminating device attached to the female XLR connector.

See PowerPlus™ L575 DMX address table in this manual for addressing and termination details.

Troubleshooting Guide

Fixture does not light;

Electrical power is not connected
Electrical power is less than 85VAC
Electrical power is greater than 265VAC

Fixture does not respond to DMX control signal;

DMX control device and fixture are address differently
DMX cable is damaged
DMX control device is disconnected or not operating

DMX control operation flickers or is intermittent;

Fixture or final DMX device in daisy chain is not terminated.
DMX cable is damaged
DMX control device is operating at less than 25Hz

Fixture output is less than normal;

Environment temperature may be in excess of 50°C/122°F
Lens may be damaged or dirty
DMX control master or RGBW channels may be set a low level