ColorGlo™

PowerPlus™ L575

Installation & Operation Manual

J&J ELECTRONICS. INC.

Manufactured by J&J Electronics Inc. 35 Hammond, Irvine CA 92618
800.735.4553 www.colorgloledlighting.com

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 95-265 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.

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 95 - 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	95-265 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 connectors, 1 male and 1 female
Control signal input	USITT 1990 DMX 512
Fixture Listing	cUL 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°F – 122°F (-40°C – +50°C)
Fixture Finish	Powder coated white – fine texture finish
Weight	6.20 lbs. (2.8 kg)
Operational orientation	Any
Rotation	180° Single Axis
Humidity	0 – 95% non-condensing

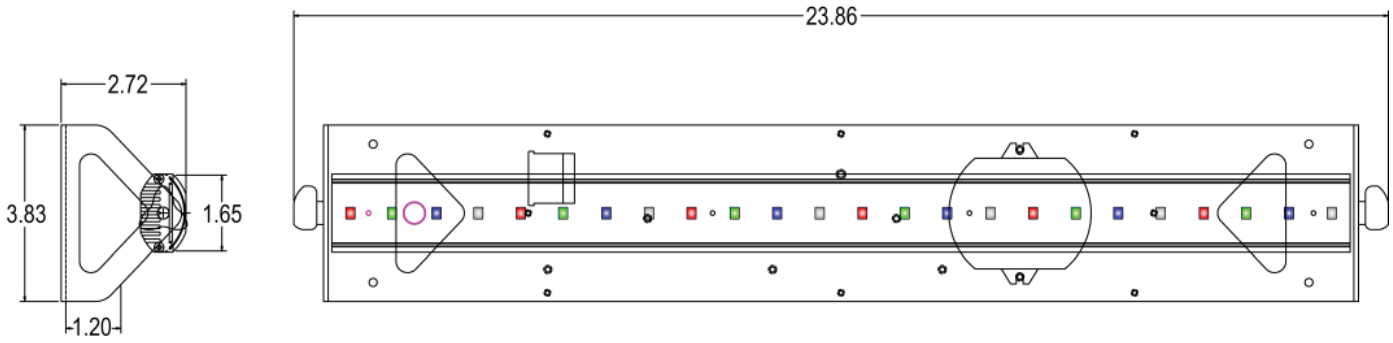

Illustration 2

Product Accessories

Description	Part Number
SunLite - USB-DMX interface	LLS-SL-1300
SunLite Ethernet version	LLS-SL-1400
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

Note: Each unit comes hard wired with a 12” DMX cable pigtail on each end.

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 pre-addressed to DMX channels 1-4. The DMX address can be changed by 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 change dip switches with fixture power turned off.

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 35 units.

PowerPlus™ L575 DMX Address Table

- Dip switch indicated as position 1 is UP/ON position on switch board
- Dip switch indicated as position 0 is DOWN/OFF position on switch board number
- Dip switch settings as indicated in table are read and set from left to right on switch board numbers 1-9
- 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/ON position. For all other operation, place #9 in DOWN/OFF position.

Dip Switch Setting	DMX Channels	Dip Switch Setting	DMX Channels	Dip Switch Setting	DMX Channels
10000000	1 - 4	00110100	173 - 176	11101010	345 - 348
01000000	5 - 8	10110100	177 - 180	00011010	349 - 352
11000000	9 - 12	01110100	181 - 184	10011010	353 - 356
00100000	13 - 16	11110100	185 - 188	01011010	357 - 360
10100000	17 - 20	00001100	189 - 192	11011010	361 - 364
01100000	21 - 24	10001100	193 - 196	00111010	365 - 368
11100000	25 - 28	01001100	197 - 200	10111010	369 - 372
00010000	29 - 32	11001100	201 - 204	01111010	373 - 376
10010000	33 - 36	00101100	205 - 208	11111010	377 - 380
01010000	37 - 40	10101100	209 - 212	00000110	381 - 384
11010000	41 - 44	01101100	213 - 216	10000110	385 - 388
00110000	45 - 48	11101100	217 - 220	01000110	389 - 392
10110000	49 - 52	00011100	221 - 224	11000110	393 - 396
01110000	53 - 56	10011100	225 - 228	00100110	397 - 400
11110000	57 - 60	01011100	229 - 232	10100110	401 - 404
00001000	61 - 64	11011100	233 - 236	01100110	405 - 408
10001000	65 - 68	00111100	237 - 240	11100110	409 - 412
01001000	69 - 72	10111100	241 - 244	00010110	413 - 416
11001000	73 - 76	01111100	245 - 248	10010110	417 - 420
00101000	77 - 80	11111100	249 - 252	01010110	421 - 424
10101000	81 - 84	00000010	253 - 256	11010110	425 - 428
01101000	85 - 88	10000010	257 - 260	00110110	429 - 432
11101000	89 - 92	01000010	261 - 264	10110110	433 - 436
00011000	93 - 96	11000010	265 - 268	01110110	437 - 440
10011000	97 - 100	00100010	269 - 272	11110110	441 - 444
01011000	101 - 104	10100010	273 - 276	00001110	445 - 448
11011000	105 - 108	01100010	277 - 280	10001110	449 - 452
00111000	109 - 112	11100010	281 - 284	01001110	453 - 456
10111000	113 - 116	00010010	285 - 288	11001110	457 - 460
01111000	117 - 120	10010010	289 - 292	00101110	461 - 464
11111000	121 - 124	01010010	293 - 296	10101110	465 - 468
00000100	125 - 128	11010010	297 - 300	01101110	469 - 472
10000100	129 - 132	00110010	301 - 304	11101110	473 - 476
01000100	133 - 136	10110010	305 - 308	00011110	477 - 480
11000100	137 - 140	01110010	309 - 312	10011110	481 - 484
00100100	141 - 144	11110010	313 - 316	01011110	485 - 488
10100100	145 - 148	00001010	317 - 320	11011110	489 - 492
01100100	149 - 152	10001010	321 - 324	00111110	493 - 496
11100100	153 - 156	01001010	325 - 328	10111110	497 - 500
00010100	157 - 160	11001010	329 - 332	01111110	501 - 504
10010100	161 - 164	00101010	333 - 336	11111110	505 - 508
01010100	165 - 168	10101010	337 - 340	00000001	509 - 512
11010100	169 - 172	01101010	341 - 344		

Connection to Power

Connect the first unit (part number LLS-PP-L575-DC) to the AC power source via the supplied 3-conductor power cable. This unit must be hardwired to the line voltage. Make sure the ground wire is connected. Have a licensed electrician perform the connection to meet NEC requirements. To daisy chain units (part number LLS-PP-L575), use the supplied IEC type C male/female cable. Daisy chain no more than 35 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 35 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 95VAC
- 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 dip switch was changed while fixture is powered up (cycle power OFF for 2 seconds)

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
- DMX dip switch was changed while fixture is powered up (cycle power OFF for 2 seconds)

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