



ColorGlo™

PowerPlus™ 1200

Installation & Operation Manual



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Thank you for purchasing and installing the ColorGlo™ PowerPlus™ 1200. This LED portable luminaire 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 1200 will provide safe and reliable operation throughout its rated lifespan.

The PowerPlus 1200 is an RGBW (Red, Green, Blue, White) LED color mixing portable luminaire 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 unit includes a DMX 512 output for connection to additional PowerPlus 1200 units or other DMX 512 devices. It is UL 48 rated (pending) for outdoor or indoor use. The PowerPlus 1200 connects directly to line voltage at 88 - 264VAC - 50/60 Hz. It 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™ 1200

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 or exterior 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.

This product is suitable for outdoor use.

WARNING

AC only.

This product must be connected to a 85 - 265VAC electrical circuit only. For exterior installation, a compliance listed ground fault interrupter (GFI) circuit breaker must be installed.

This product is not suitable for ingrade or underwater installation.

Product Specifications

Size	9.9" (11.7 with knobs) x 4.6" x 8.2"
Input Voltage	88 – 264 VAC 50/60 Hz
Input Current	85 - 265VAC
IES tested lumen output	1355.08 (RGBW at 100%)
Input Power Connect	Standard UL listed cord and polar type plug
LED	9 Red, 6 green, 6 Royal Blue, 6 White
Control Input	5 pin XLR
Control signal input	USITT 1990 DMX 512
Listing	UL 48 – Pending
Internal Power Supply Listing	UL, cUL, TUV, CB, CE
Internal Power Supply	24VDC
PCB flame rating	UL 94-VO
Housing	Extruded aluminum head and base,
Operating Temperature	-40°C /-40°F – 50°C /122°F
Finish	Powder coated white – fine texture finish
Weight	10 lbs.
Operational orientation	Any
Rotation	2 Axis 340° & 130°

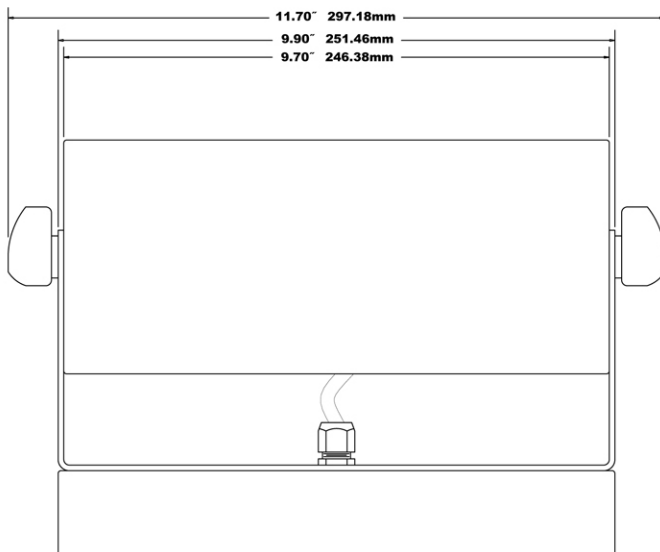
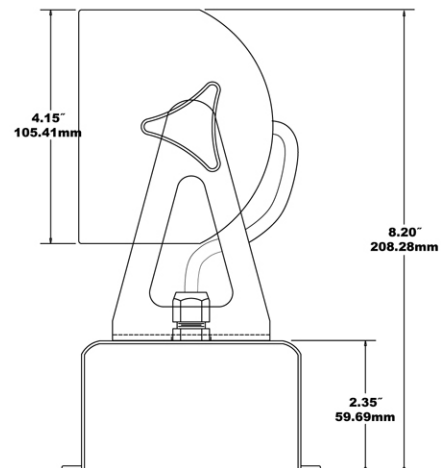


Illustration 2



Product Accessories

SunLite - USB-DMX interface	part # LLS-SL-1300
Rerun Playback Controller	part # RERUN-A
Rerun 10 Scene Controller	part # PRE10-A
Solite™ Frosted Lens	part # LLS-PP1200-LF
Prismatic Wide Flood Lens	part # LLS-PP1200-LWF
Skytex™ Wide Horizontal Lens	part # LLS-PP1200-LWH
Snoot/Egg Crate Combo	part # LLS-PP1200-SC
DMX Cable Extension 50ft.	part # DMX-550
DMX Cable Extension - wet location rated 50ft.	part # DMX-550-W
DMX Cable Extension 25ft.	part # DMX-525
DMX Cable Extension - wet location rated 25ft.	part # DMX-525-W
DMX Cable Extension 10ft.	part # DMX-510
DMX Cable Extension - wet location rated 10ft.	part # DMX-510-W
DMX Cable Extension 5ft.	part # DMX-505
DMX Cable Extension - wet location rated 5ft.	part # DMX-505 - W

Unpacking

The PowerPlus 1200 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 visible damage to the head or base of the unit.

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.

Setting the DMX Address

The PowerPlus 1200 is shipped without a specific DMX address set. To set the DMX address, remove the two #2 Philips screws and the dip switch access plate indicated in Illustration 3. Set the desired DMX address using the PowerPlus™ 1200 DMX address table (below) for address dip switch and termination position settings.

After setting dip switch, ensure that the access plate is reinstalled to ensure water tight seal.

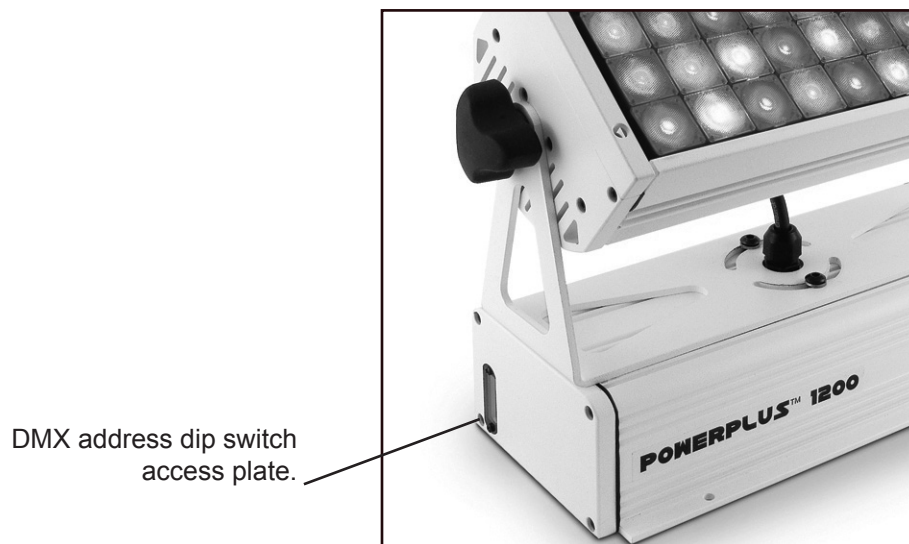


Illustration 3

PowerPlus™ 1200 DMX Address Table

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

Mounting

Mount the PowerPlus 1200 portable luminaire in any orientation directly to concrete or concrete block surfaces or to drywall. Use all four mounting holes in the base to securely fasten it to the mounting surface.

Mounting to Concrete and Concrete Block Surfaces

Use #6, 8 x 1 1/2" long lead anchor, with 1/4" pilot drill hole.

Mounting to Drywall

Use 1/8" x 2" toggle bolt for wall thicknesses from 3/8"- 1 1/4", with 7/16" pilot drill hole.

Connection to Power

Once the PowerPlus 1200 is DMX addressed and properly mounted, it is ready to be powered. Turn power off to the designated 88 - 265VAC electrical circuit using the circuit breaker switch. Plug the unit into a circuit receptacle using the Type B grounded plug attached to unit. This unit may also be wired directly into an electrical junction box or conduit following applicable electrical building codes.

With the unit properly connected, activate the circuit using the GFI breaker switch. The PowerPlus 1200 will flash all LED's indicating that power is on and working properly.

Connection to DMX Control

DMX control connection is made using the male XLR connector attached to the PowerPlus 1200. The unit operates 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 PowerPlus 1200 units may be connected to the female XLR connector for "daisy chain" DMX control of up to 35 units. It is important to ensure that a single unit or a unit 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™ 1200 DMX address table in this manual for addressing and termination details.

Troubleshooting Guide

PowerPlus 1200 does not light:

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

PowerPlus 1200 does not respond to DMX control signal:

- DMX control device and PowerPlus 1200 are addressed differently
- DMX cable is damaged
- DMX control device is disconnected or not operating

DMX control operation flickers or is intermittent;

- PowerPlus 1200 or final DMX device in daisy chain is not terminated
- DMX cable is damaged
- DMX control device is operating at less than 25Hz

PowerPlus 1200 output is less than normal:

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