

ColourLine Lazer Micro



CDECIFICATIONS



| Date: | Approved: |
|----------|-----------|
| Туре: | |
| Fixture: | |
| Project: | |

ColourLine Lazer Micro (CLZMF) is the newest part of our Lazer Series, featuring high-performance Zero Lumens Compromised, superior optics with long-casting grazer, wall wash, flood and spot flood capabilities in a compact form factor. It's based on our ColourLine RGBW technology that utilizes advanced RDM-DMX protocols combined with a unique optical system to offer one of the most impressive long-throw RGBW lighting solutions in the market. Lazer is equipped with an integrated yoke mount and 180° incremental adjustment setting to direct fixture lighting. Typical applications include large buildings, arenas, towers, monuments, bridges, tunnels, and more.

| SPECIFICATIONS | |
|---------------------|---|
| color temperature | RGBW / RGBA |
| PHYSICAL | |
| beam spread | 9° 10°x 30° 10°x 60° 15°x 25° 30° 30°x 60° 50°x 80° 80° |
| LEDs | 12 LEDs per module |
| dimensions | 7.3"W x 7.3"H x 6.6"D |
| weight | 11 lbs |
| housing | marine grade, corrosion resistant, low copper, solid die-cast aluminum, extruded 6061 body with captive stainless steel fasteners |
| lens | anti-reflective-clear, tempered glass w/RTV silicone gasketing |
| mounting | 3G Vibration rated, standard mounting is an integrated steel yoke system, optional accessories availble |
| ingress protection | IP66 rated for dry, damp or wet locations |
| impact resistance | IK08 lens impact rating, IK10 w/ Rock Guard (RG) |
| fixture connections | daisy chain fixtures with male/female twist & lock, 6-pin, IP68 rated connector cables |

| PERFORMANCE | | | |
|-----------------------------|--|--|--|
| lumen output [all on] | 2500 Im (RGBW - full on) | | |
| maximum delivered intensity | 52,000 cd @ 8 degrees* (RGBW Full On) * native optical beam | | |
| lumen maintenance | > 70,000 hours / L70 or better | | |
| operating temperature | -40°F to 122°F (-40°C to 50°C) | | |
| protocols | DMX 512, RDM (ANSI E1.20) | | |
| ColourFULL (See pg. 4) | Custom Tooled Native Optic with a collimating color mixing chamber that mixes at the phosphor level enabling unique color combinations. | | |
| ColourQuick (See pg. 4) | provides uniform beam saturation instant color mix 0" from fixture surface | | |
| ColourClone (See pg. 4) | manufacturing process uses robotic systems to provide 1 SDCM like consistency between luminaires by calibrating every fixture to the same exact X, Y, chromaticity coordinates | | |
| ColourSoft (See pg. 4) | embedded firmware enables 16-bit resolution using only 8-bits of data to enhance the low trim curve for no-flicker at the slowest transition speeds | | |
| warranty | 5 year limited warranty (refer to website for details) | | |

| ELECTRICAL | |
|-------------------|---|
| input voltage | Universal 120–277V AC |
| power supply | integral Class II, electronic high-power factor 99% @ 120V |
| controls | SSL ColourSelect Controller 3rd party DMX 512, RDM standard based control system (ANSI E1.20) |
| certification | ETL / cETL, FCC Part 15 |
| standards | UL-Class I |
| power consumption | 85W @ 120V (per module) |

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US Commercial Lighting Manufacturer Since 1982

ColourLine Lazer Micro

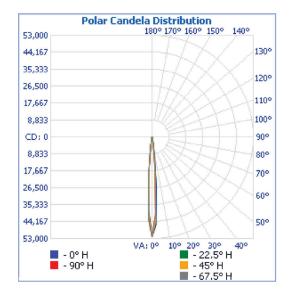


| ART NUMBER | | | | | | | |
|--|---|---|---|---|--|--|--|
| CLZMF | UNV | | ВК | | | | |
| MODEL | VOLTAGE | MODE | FINISH | | OPTICS nominal | ACCESSORIES | |
| CLZMF ColourLine Lazer Micro | UNV 120V-277V | RGBW RGBW* RGBA RGBA (Amber) *W = 3K | BK black | 1030 1060 1525 30 3060 5080 | 9°x 9° Beam† (native optic) 10°x 30° Beam† 10°x 60° Beam 15°x 25° Beam† 30°x 30° Beam† 30°x 60° Beam 50°x 80° Beam 80°x 80° Beam | MFV Full Visor MHV Half Visor MRG Rock Guard† †MRG recommended only with narro beam optics: 9°, 30°, 1030°, 1525° | |
| able Accessories (order sepe | rately) | | | | | | |
| SC10CLZ 10 ft. Starter Conne SC25CLZ 25 ft. Starter Conne SC50CLZ 50 ft. Starter Conne | ction Cord _ | TCAPDCLZ Data Teri EC24CLZ 24 in. Exte EC60CLZ 60 in. Exte | minator Cap nsion Cord | , •) | EC120CLZ 120 in. Exte | | |
| ontrol Components (Indicat | e the quantity needed for | each item.) | | | X listed are exterior rated. nt) CD cables have male XLR at one | end. | |
| PHAROS XPT-5-W Expert Tou | ıch Panel; 5" Display in W | hite | CSC-E Col | ourSelect (| Controller <i>(2 universe</i>) | | |
| PHAROS XPC1 Expert Controller; 512 channels of eDMX/DMX | | PS-CSC Power Supply AC Adapter for CSC-E (replacement) | | | | | |
| PHAROS XPC2 Expert Control | ller; 1024 channels of eD | MX/DMX | DE3BK(WH) Nicolaudie STICK DE-3 Black or White Wall Mount Controller w/color dial | | | | |
| PHAROS XPR Expert Repeat (C | DMX Splitter with 1 in 4 o | ut, 24V DC) | CW4-WH Nicolaudie STICK White Touch Screen with Internal WiFi | | | | |
| PHAROS TPS-5-B 5" Designer Touch Panel Station | | GA2WH(BK) Nicolaudie STICK-GA2 White or Black Wall Mount Controller | | | | | |
| PHAROS TPC-BB Touch Panel Controller - Black on Black (512 Channels EDMX) | | DINA-DR1 3072 Channel (DMX, eDMX), DIN Rail | | | | | |
| | t Back Box for drywall in | PHAROS TPC-FBB Flush Mount Back Box for drywall installation | | DINA-DR1 LITE 1024 Channel (DMX), DIN Rail - upgradeable to DR-1 | | | |
| PHAROS TPC-SBB Surface Mount Back Box for drywall installation | | | | | | | |
| | , | installation | | 1024 Char | nel (DMX), DIN Rail | | |
| PHAROS EXT Extension for TF | PC Connectivity | | DINA-DR2- | 1024 Char LITE 512 C | hannel (DMX), DIN Rail - upgrade | able to DR-2 | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb | PC Connectivity ack Controller 1 (512 cha | nnels DMX/eDMX) | DINA-DR2- | 1024 Char LITE 512 C | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb | PC Connectivity ack Controller 1 (512 cha | nnels DMX/eDMX) nannels DMX/eDMX) | DINA-DR2- DINA PS D NATOUCH-1 | 1024 Char LITE 512 C INA Power Wall mou | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb EDN 10 10 Ethernet Data Node | PC Connectivity ack Controller 1 (512 cha ack Controller 2 (1,024 c | nnels DMX/eDMX) hannels DMX/eDMX) RDM) | DINA-DR2- DINA PS D NATOUCH-1 DXC-25 2 | 1024 Char LITE 512 C INA Power Wall mou | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor ior rated DMX cable | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb EDN 10 10 Ethernet Data Node EDN 20 20 Ethernet Data Node | PC Connectivity ack Controller 1 (512 cha ack Controller 2 (1,024 c e (1+1 Ethernet, 10 DMX) | nnels DMX/eDMX) hannels DMX/eDMX) RDM) | DINA-DR2- DINA PS D NATOUCH-1 DXC-25 29 DXC-50 50 | 1024 Char LITE 512 C INA Power Wall mou 5 foot Exter O foot Exter | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor ior rated DMX cable ior rated DMX cable | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb EDN 10 10 Ethernet Data Node EDN 20 20 Ethernet Data Node DMXCat DMX/RDM configurat | PC Connectivity ack Controller 1 (512 cha ack Controller 2 (1,024 c e (1+1 Ethernet, 10 DMX) e (1+1 Ethernet, 20 DMX) ion tool | nnels DMX/eDMX) hannels DMX/eDMX) RDM) | DINA-DR2- DINA PS D NATOUCH-1 DXC-25 2: DXC-50 50 | 1024 Char LITE 512 C INA Power Wall mou 5 foot Exter 100 foot Ex | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor ior rated DMX cable ior rated DMX cable terior rated DMX cable | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb EDN 10 10 Ethernet Data Node EDN 20 20 Ethernet Data Node DMXCat DMX/RDM configurat PDX2 Power Data Wiring Box | PC Connectivity ack Controller 1 (512 cha ack Controller 2 (1,024 c e (1+1 Ethernet, 10 DMX/ e (1+1 Ethernet, 20 DMX/ ion tool (exterior rated) | nnels DMX/eDMX) hannels DMX/eDMX) RDM) | DINA-DR2- DINA PS D NATOUCH-1 DXC-25 28 DXC-50 50 DXC-100 10 | 1024 Char LITE 512 C INA Power Wall mou 5 foot Exter 0 foot Exter 100 foot Ex | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor ior rated DMX cable ior rated DMX cable terior rated DMX cable ller data cable (for CSC only) | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb EDN 10 10 Ethernet Data Node EDN 20 20 Ethernet Data Node DMXCat DMX/RDM configurat PDX2 Power Data Wiring Box PDX-S Power Data Wiring Box | PC Connectivity ack Controller 1 (512 cha ack Controller 2 (1,024 c e (1+1 Ethernet, 10 DMX) e (1+1 Ethernet, 20 DMX) ion tool (exterior rated) x w/2-port splitter | nnels DMX/eDMX) hannels DMX/eDMX) RDM) | DINA-DR2- DINA PS D NATOUCH-1 DXC-25 2: DXC-50 5: DXC-100 10 CD-25 25 | 1024 Char LITE 512 C NA Power Wall mou 5 foot Exter 100 foot Exter 100 foot Ex foot contro | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor ior rated DMX cable ior rated DMX cable terior rated DMX cable ller data cable (for CSC only) | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb EDN 10 10 Ethernet Data Node EDN 20 20 Ethernet Data Node DMXCat DMX/RDM configurat PDX2 Power Data Wiring Box PDX-S Power Data Wiring Box PDX-RS4 Power Data Wiring I | PC Connectivity ack Controller 1 (512 cha ack Controller 2 (1,024 c e (1+1 Ethernet, 10 DMX) e (1+1 Ethernet, 20 DMX) ion tool (exterior rated) x w/2-port splitter Box w/4-port splitter | nnels DMX/eDMX) hannels DMX/eDMX) RDM) | DINA-DR2- DINA PS D NATOUCH-1 DXC-25 2: DXC-100 CD-10 10 CD-25 25 CD-50 50 | 1024 Char LITE 512 C INA Power Wall mou 5 foot Exter 0 foot Exter 100 foot Ex foot control foot control | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor ior rated DMX cable ior rated DMX cable terior rated DMX cable ller data cable (for CSC only) ller data cable (for CSC only) | | |
| PHAROS EXT Extension for TF PHAROS LPC1 Lighting Playb PHAROS LPC2 Lighting Playb EDN 10 10 Ethernet Data Node EDN 20 20 Ethernet Data Node DMXCat DMX/RDM configurat PDX2 Power Data Wiring Box PDX-S Power Data Wiring Box | PC Connectivity ack Controller 1 (512 cha ack Controller 2 (1,024 c e (1+1 Ethernet, 10 DMX/ e (1+1 Ethernet, 20 DMX/ ion tool (exterior rated) x w/2-port splitter Box w/4-port splitter | nnels DMX/eDMX) hannels DMX/eDMX) RDM) RDM) | DINA-DR2- DINA PS D NATOUCH-1 DXC-25 28 DXC-100 CD-10 10 CD-25 25 CD-50 50 CD-100 10 | 1024 Char LITE 512 C INA Power Wall mou 5 foot Exter 0 foot Exter 100 foot Ex foot control foot control foot control | hannel (DMX), DIN Rail - upgrade Supply (by Nicolaudie) nted touch screen for remote cor ior rated DMX cable ior rated DMX cable terior rated DMX cable ller data cable (for CSC only) | ntrol | |

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PHOTOMTERIC DATA



| Flood Summary | | | | | |
|---------------|------------|---------|----------------------|--------------------|--|
| | Efficiency | Lumens | Horizontal Spread | Vertical Spread | |
| Field (10%): | 52.5% | 1,292.7 | 16.3 | 17.7 | |
| Beam (50%): | 26.8% | 660.5 | 8.5 | 9.2 | |
| Total: | 100.8% | 2,482.0 | | | |

| | Illuminance at a Center Beam fc | Distance Beam Width | n |
|---------|---|-------------------------------|--------|
| 1.78 | 18,007 fc | 0.3 ft | 0.3 ft |
| 3.3R - | 4,779 fc | 0.5 ft | 0.5 ft |
| 5.0R | 2,082 fc | 0.8 ft | 0.7 ft |
| 6.7ft - | 1,159 fc | 1.1 ft | 1.0 ft |
| 8.3ft - | 755 fc | 1.3 ft | 1.2 ft |
| 10.0R | 520 fc | 1.6 ft | 1.5 ft |
| | Vert. Spread: 9.2° Horiz. Spread: 8.5° | | |

| Zonal Lumen Summary | | | | |
|---------------------|----------|-----------|--|--|
| Zone | Lumens % | Luminaire | | |
| 0-30 | 2,063.6 | 83.8% | | |
| 0-40 | 2,245.9 | 91.2% | | |
| 0-60 | 2,398.0 | 97.4% | | |
| 60-90 | 51.7 | 2.1% | | |
| 70-100 | 19.2 | 0.8% | | |
| 90-120 | 3.1 | 0.1% | | |
| 0-90 | 2,449.7 | 99.5% | | |
| 90-180 | 12.0 | 0.5% | | |
| 0-180 | 2,461.7 | 100% | | |







Like all ColourLine products any controllers that support the latest ESTA RDM and ACN standards will allow optimal control of the huge RGBW color spectrum. Regardless of the surface color you're casting light across, you'll be able to adjust color to capture your specific brand colors or add unique settings for subtle or intense color-changing hues.





Amber is used in place of white in the RGBA color gamut. Adjusting to the lighter color spectrum adds warm tones of amber.

As subjective as color selection is, using amber for a more chromatically warmer color palette allows for a broader yellow color spectrum. The warm rich colors create a more inviting setting for night lighting applications. RGB alone will produce white and yellow but in a smaller color spectrum.

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All These Features In A Single Fixture



Colour Full

FULL LUMEN COLOR CHANGING

- Full Power LED with any color transition
- · Consistent rich color acoss the light spectrum
- Full output power with any color

ColourFull fixtures provide maximum output at all times – with all colors, so your application receives the maximum color saturation. Using a Custom Tooled Native Optic with a collimating color mixing chamber that mixes at the phosphor level enabling unique color combinations.



RAPID-MIX COLOR

- Instantaneous Color Mixing Within 1 inch
- Shortest Distance in Industry for Blending Colors
- 4-in-1 RGBW LED designed to SSL Specifications

ColourLine RGBW fixtures provide the quickest color mixing in the industry. The SSL ColourQuick technology enables our ColourLine Linear Indoor Cove and Graze, as well as, our Outdoor Floods to color-mix almost instantly, within one inch.

Scalable

- Full DMX, RDM control capability with latest industry standards
- A wide variety of DMX protocol controls and system accessories
- SSL has many RGBW products utilizing the ColourLine Technology
- Control 1000's of DMX channels with multiple universes & zones
- Powerful luminaires with super optics for long-throw applications
- SSL provides turnkey design and technical integration support



SMOOTH LOW-TRIM DIMMING

- Flicker-Free Color Transitions and Dimming
- 16-bit performance (65,536 steps) using only 8-bit addressing
- SSL Engineered Custom Software and Firmware

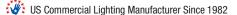
Standard dimming technology uses 8-bit resolution for 256 individual steps. Our 32-bit on-board MCU uses SSL developed software to provide 16-bit resolution that allows 65,536 steps of resolution and only use 8-bits of addressing space! We also use a logarithmic delineation of the resolution to concentrate in the lower third of the dimming curve so the low-end dimming and color transitions have zero flicker.



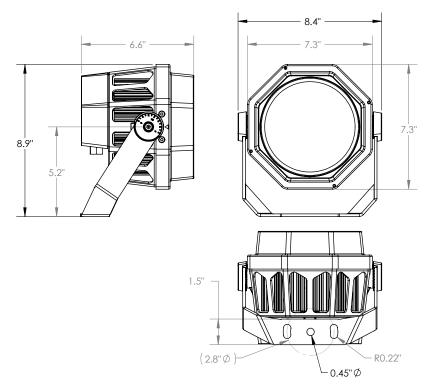
TRU-COLOR RGBW MATCHING

- Robotic Calibration of every fixture provides 1-Step consistency
- Every fixture has same X, Y color coordinates
- Perfect match for add-ons and replacements

As part of our manufacturing process, SSL Automated Manufacturing Robots calibrate every fixture to the exact same X,Y color coordinates to provide Step-1 like consistency. This process enables every fixture to be an exact clone. At the end of the process, a bar code is generated for every board. This allows for exact matching for job add-ons or warranty replacements.



| SINGLE MODULE FIXTURE (1M) | | | |
|----------------------------|--------|--|--|
| overall length | 7.3" L | | |
| overall height | 7.3" H | | |
| overall depth (1M) | 6.6" D | | |

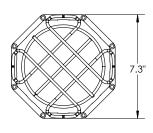


Accessories

ROCK GUARD†

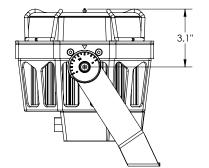
Part #





MRG

†Recommended only with narrow beam optics: 9°, 30°, 1030°, 1525°





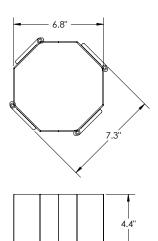
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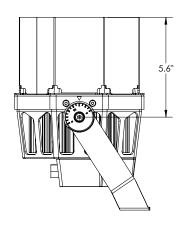
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FULL VISOR

Part #

MFV



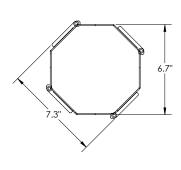


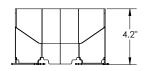


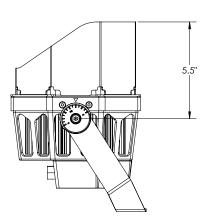
HALF VISOR

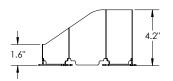
Part #

MHV











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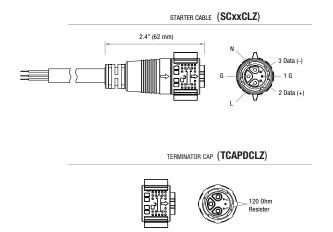


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ColourLine Lazer Micro

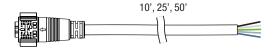
CONNECTIONS & CABLES

6-PIN CONNECTORS



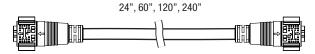
STARTER CORD (SCxxCLZ)

Required Starter Cord comes in multiple lengths with a fixture connector at one end and lead wires at the other end for connecting power & data.



EXTENSION CORD (ECxxCLZ)

The Extension Cord comes in multiple lengths with a fixture connection at each end for power & data and adding space between fixtures in a linear run.



CLZMF - LAZER CONFIGURATION EXAMPLE

Component Identification

- 1) DMX Color Controller (see last page)
- 2) DMX Data Cable DXC-xx or CD-xx (CSC only)
- 3) PDX Power Data Wiring Box
- 4) Starter Cord SCxxCLZ
- 5) ColourLine Lazer (CLZMF)

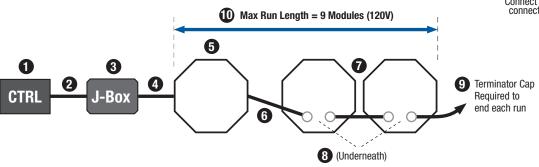
- 6) Extension Cord ECxxCLZ (connect at back of fixture)
- 7) Connected ColourLine Lazer Micro (CLZMF)
- 8) Extension Cords connect fixtures ECxxCLZ
- 9) Terminator Cap **TCAPDCLZ** (required at end of run)
- 10) Max Run Length (before adding more power): 9 Modules (120V), 18 Modules (277V)

Back of Fixture Connections



Connect to either side, both connectors are the same.

Back of Fixture Connections



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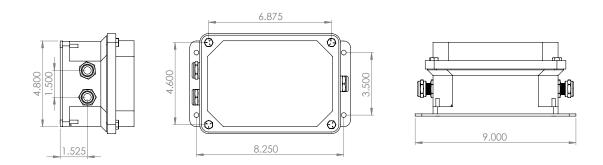


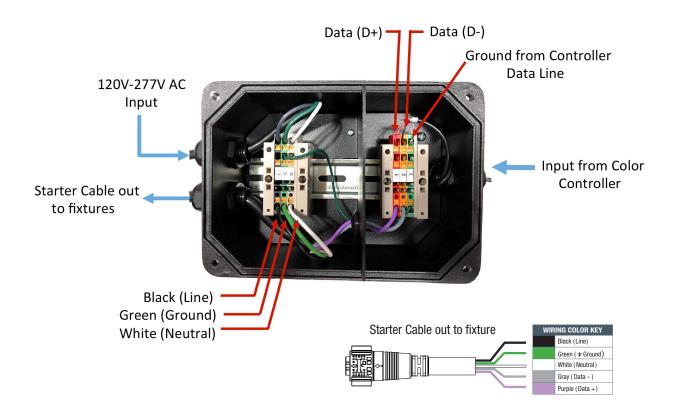
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Control Components

PDX - POWER DATA WIRING BOX

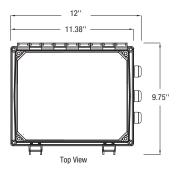
The PDX is an exterior-rated enclosure that consolidates multiple input sources into one output to the Lazer Flood fixtures. Data input from the RDM Color controller and AC input combine to provide one output to a Starter Cord.

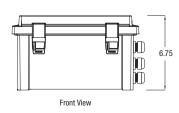




PDX-S - POWER DATA WIRING BOX - WITH 2-PORT SPLITTER

The PDX-S is an exterior-rated enclosure with a transparent, hinged cover that latches and seals using a formed in place PUR gasket and a stainless steel hinge pin. It consolidates multiple input sources into two outputs to the fixtures. Data input from the RDM Color controller and AC input combine to provide output to two Starter Cords.

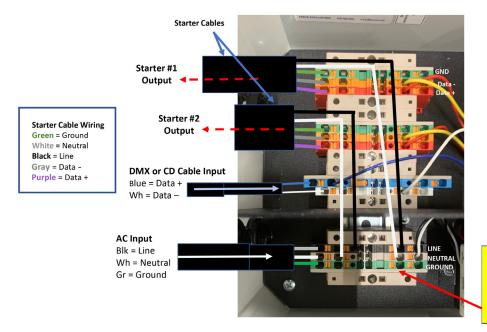




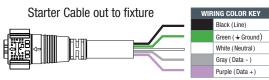




PDX-S WIRING CONNECTIONS



AC WIRES FROM STARTER CABLES LAND ON THESE AC TERMINAL BLOCKS





DMX / RDM PROTOCOL CONTROLLERS



PHAROS TPC-BB - Pharos Touch Panel Controller - Black on Black finish

TPC Touch Panel Controller is an elegant lighting controller with a customizable 4.3" touch screen, 512 channels of eDMX output and flexible interfacing potential. The TPC must work in conjunction with the EXT or LPC. Pharos Backbox is available for mounting.



PHAROS EXT - Extension Device for TPC Connectivity

The Pharos EXT is an extension for the Pharos TPC for making the physical DMX or eDMX output connections. It also provides a PoE connection for the TPC. It's DIN rail monted. This device supports electrical input of 120-240V AC power.



PHAROS LPC - Lighting Playback Controller

Pharos offers two playback controllers, LPC1 (512 channels DMX/eDMX) and LPC2 (1024 channels DMX/eDMX) Pharos LPC (Lighting Playback Controller) is a versatile control solution. The LPC family features individually controllable and independently running timelines and scenes, letting you build dynamic, precise, fully customizable lighting effects. The LPC can be ordered with 1 to 100 Universe capability. It requires a TPC or PC to interface and is powered via 9V to 48V DC or PoE (IEEE802.3af, Class 2), 4W typical.



DE3BK(WH) - Nicolaudie STICK-DE3 Black or White Wall Mount Controller with color dial

STICK DE3 provides an elegant solution to controlling your DMX fixtures. The glass, touch-sensitive panel can be used in multiple ways to select a programmed scene, change a color attribute or directly select a color from the color wheel. Scenes are displayed on the graphical color display. The DE3 provides 1024 DMX Channels with up to 500 scenes and 10 separate zones can be created and controlled separately. 120V AC is required for operation. The DE3 is programmed via Nicolaudie's ESA2 or ESA PRO software. Programs are stored on the internal MicroSD card.



CW4-WH - Nicolaudie STICK CW4 White Touch Screen with Internal WiFi CW4 touch controller provides 1024 channels of control. 36 scenes can be created in 1 zone. An internal access point provides remote control via any WiFi device using the Lightpad app from Nicolaudie.

GA2BK(WH) - Nicolaudie STICK-GA2 Black or White Wall Mount Controller

GA2 is an economical controller with glass, touch-sensitive screen for basic control of up to 99 scenes and 1 available zone. It can control 512 DMX Channels. An LED display makes it easy to determine which scene number is playing.



CSC-E - SSL ColourSelect Controller

ColourSelect Controller 2 Universe provides (1024 Channels) of output data capable of controlling 5 zones independently. CSC-E has two 3-pin female XLR connectors to connect to your DMX network and is defaulted in splitter mode, so two separate runs can be connected and controlled. It can store a total of 80 programmable presets. Additionally buttons control speed, dimming, scenes and static colors. The CSC can be powered via a PC USB port or with the PS-CSC external 120V AC power supply included.



SCSC-2WH (or 2BK) - SLIM White ColourSelect Controller Wall mount versions of the CSC-E, includes power supply.

