

ColourLine

Lazer Micro

Part of our LAZER

Approved:

Date: Type:

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 luminaire 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 available
ingress protection	IP66 rated for dry, damp or wet locations
impact resistance	IK08 lens impact rating, IK10 w/ Rock Guard (RG)
luminaire connections	daisy chain luminaires with male/female twist & lock, 6-pin, IP68 rated connector cables
PERFORMANCE	
lumen output [all on]	2500 lm (RGBW - full on)
maximum delivered intensity	52.000 cd @ 8 degrees* (RGBW Full On) *native optical beam
lumen maintenance	L70 > 70,000 hours
operating temperature	-40°F to 122°F (-40°C to 50°C)
protocols	DMX 512, RDM (ANSI E1.20)
ColourFull (CF)	Custom Tooled Native Optic with a collimating color mixing chamber that mixes at the phosphor level enabling unique color combinations
ColourQuick (CQ)	provides uniform beam saturation, instantaneously without scalloping
ColourClone (CC)	manufacturing process uses robotic systems to provide 1 SDCM like consistency between luminaires by calibrating every luminaire to the same exact X, Y, chromaticity coordinates
ColourSoft (CS)	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
ELECTRICAL	
input voltage	Universal 120 - 277 VAC
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)

Due to continuous development and improvements, specifications are subject to change without notice.

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TG-DM-081524

ColourLine Lazer Micro



CLZMF	UNV		BK			
MODEL	VOLTAGE	MODE	FINISH		OPTICS nominal	ACCESSORIES
CLZMF ColourLine Lazer Micro	UNV 120 - 277 VAC	RGBW RGBW* RGBA (Amber) *W = 3K	BK Black	1030 1060 1525 30 3060 5080	30° x 30° Beam ⁺ 30° x 60° Beam	MFV Full Visor MHV Half Visor MRG Rock Guard [†] [†] MRG recommended only with narro beam optics: 9°, 30°, 1030°, 1525°
Ie Accessories (order sep IRED: Each run requires a Starter SC10CLZ 10 ft. Starter Conn SC25CLZ 25 ft. Starter Conn SC50CLZ 50 ft. Starter Conn	r Cable and Terminator Cap. hection Cord hection Cord hection Cord	TCAPDCLZ Data Ter EC24CLZ 24 in. Exte EC60CLZ 60 in. Exte	minator Cap ension Cord ension Cord	-	EC120CLZ 120 in. Ext EC240CLZ 240 in. Ext IX listed are exterior rated.	
trol Components (Indica PHAROS XPT-5-W Expert To		each item.)	(Belden 3105)	A or equivale	ent) CD cables have male XLR at one	e end.
		nite	CSC-F Co	lourSelect	Controller <i>(2 universe</i>)	
					Controller <i>(2 universe</i>) Iv AC Adapter for CSC-E <i>(replacer</i>	ment
PHAROS XPC1 Expert Contr	oller; 512 channels of eDM	K/DMX	PS-CSC F	ower Supp	ly AC Adapter for CSC-E (replacer	
PHAROS XPC1 Expert Contr PHAROS XPC2 Expert Contr	roller; 512 channels of eDM roller; 1024 channels of eDM	K/DMX IX/DMX	PS-CSC F DE3BK(W	Power Supp H) Nicolaud	, ,	Mount Controller w/color dial
PHAROS XPC1 Expert Contr	roller; 512 channels of eDM roller; 1024 channels of eDM (DMX Splitter with 1 in 4 ou	K/DMX IX/DMX	PS-CSC F DE3BK(W CW4-WH	Power Supp H) Nicolaud Nicolaudie	ly AC Adapter for CSC-E <i>(replacer</i> lie STICK DE-3 Black or White Wall I	Mount Controller w/color dial nternal WiFi
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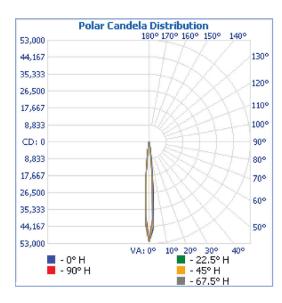
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Photometry

ColourLine Lazer Micro

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				

0.3 ft	0.3 ft
	01011
0.5 ft	0.5 ft
0.8 ft	0.7 ft
1.1 ft	1.0 ft
1.3 ft	1.2 ft
1.6 ft	1.5 ft
	0.8 ft 1.1 ft 1.3 ft

Zonal Lumen Summary				
Zone	Lumens 9	% 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%		





RGBW supports up to 4.6 billion colors available to use with ColourLine Lazer Micro.

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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ColourLine Lazer Micro

ColourLine Technology

All These Features In A Single Luminaire

COLOUR 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 luminaires 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.



ColourLine RGBW luminaires 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



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.



As part of our manufacturing process, SSL Automated Manufacturing Robots calibrate every luminaire to the exact same X,Y color coordinates to provide Step-1 like consistency. This process enables every luminaire 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 addons or warranty replacements.

Due to continuous development and improvements, specifications are subject to change without notice Product use certifies agreement to Solid State Luminaires terms and conditions.

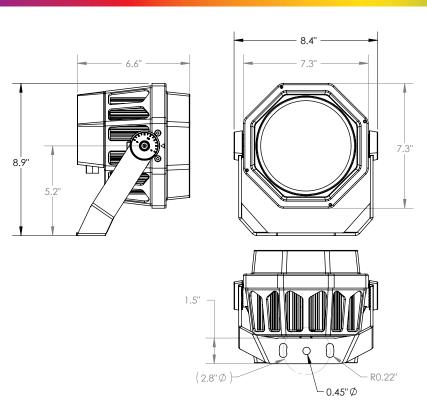
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Dimensions

ColourLine Lazer Micro

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



Accessories

Part # MRG

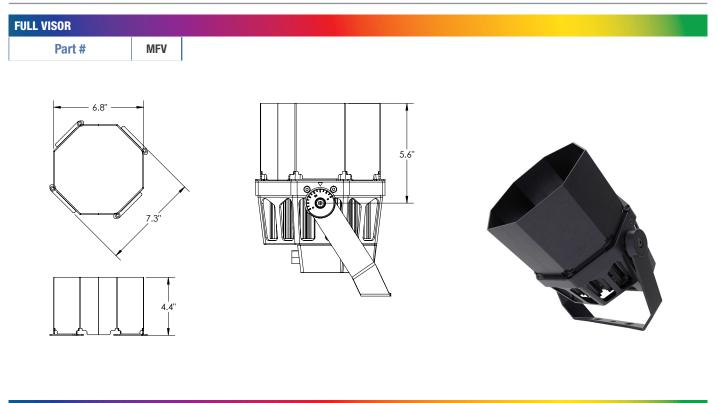
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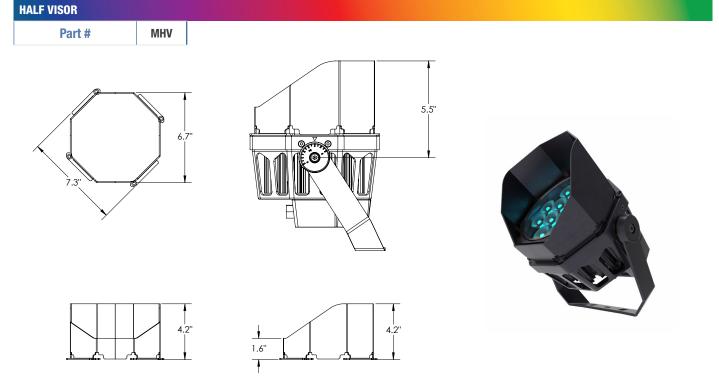
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Accessories

ColourLine Lazer Micro





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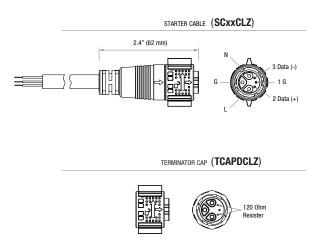
US Commercial Lighting Manufacturer Since 1982 TG-DM-081524

Connectivity Options

ColourLine Lazer Micro

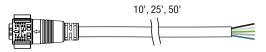
CONNECTIONS & CABLES

6-PIN CONNECTORS



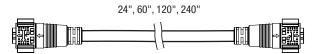
STARTER CORD (SCxxCLZ)

Required Starter Cord comes in multiple lengths with a luminaire 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 luminaire connection at each end for power & data and adding space between luminaires in a linear run.



CLZMF - LAZER CONFIGURATION EXAMPLE

Component Identification

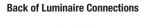
- 1) DMX Color Controller (see last page)
- 2) DMX Data Cable DXC-xx or CD-xx (CSC only)
- 3) PDX Power Data Wiring Box
- 4) Starter Cord SCxxCLZ
- 5) ColourLine Lazer (CLZMF)

Back of Luminaire Connections

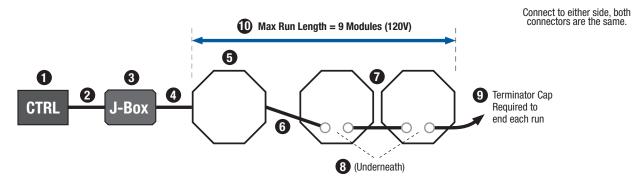
6) Extension Cord **ECxxCLZ** (connect at back of luminaire)

- 7) Connected ColourLine Lazer Micro (**CLZMF**)
- 8) Extension Cords connect luminaires ECxxCLZ9) Terminator Cap TCAPDCLZ (required at end of run)
- 10) Max Run Length (before adding more power):

9 Modules (120V), 18 Modules (277V)







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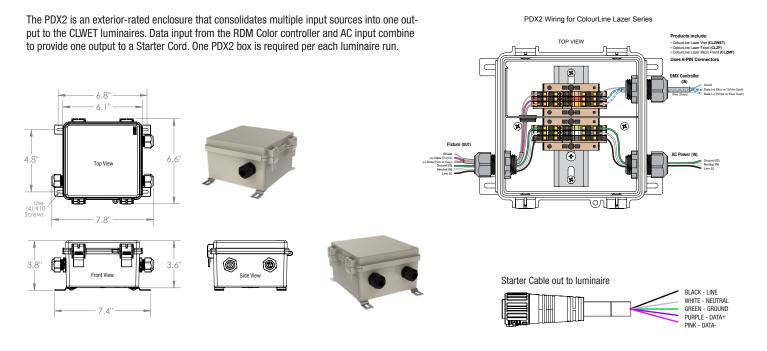
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Control Components

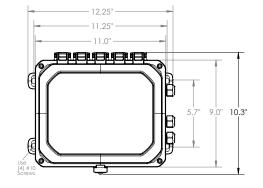
ColourLine Lazer Micro

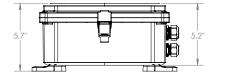
PDX2 - POWER DATA WIRING BOX (ONE PDX2 REQUIRED PER RUN)

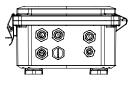


PDX-RDS2 - POWER DATA WIRING BOX - WITH 2-PORT SPLITTER

The PDX-RDS2 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. The PDX-RDS2 houses a DMX/RDM 2 port splitter/repeater that takes in one DMX input and provides two regenerated DMX outputs that can be any combination of starter cords or straight DMX outputs. The repeater allows you to daisy-chain PDX2 or PDX-RDS2 boxes by providing two maximum DMX run length outputs.







Connector Identification

- 1) AC Input (Line power)
- 2) DMX Data Cable DXC-xx or CD-xx (CSC only)
- 3) Starter Cord SCxxLZWET one
- 4) Starter Cord SCxxLZWET two
- 5) Auxiliary Ground



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Color Controls

ColourLine Lazer Micro

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.

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