



GALLERY



Exterior 100 IP68

The Exterior 100 IP68™ is an exceptionally rugged and compact lighting fixture designed for extreme outdoor and underwater environments, such as fountains, pools, building facades, landscaping, cruise ships - you name it.

Ideal for applications requiring superb color mixing (RGBW) or high quality white light (cold, neutral or warm).

Compact lighting fixture with full color mixing or white light

Suitable for extreme outdoor and underwater environments

No color separation or shadows due to use of premixed LED's

FEATURES

TECHNICAL SPECIFICATIONS

Physical

Exterior 100 Luminaire:

Length: 165 mm (6.5 in.) including cable gland and cable exit

Width: 128 mm (5.1 in.) including mounting/tilt adjustment fasteners and side-routed cable

Height: 166 mm (6.6 in.) including mounting bracket

Weight: 1.4 kg (3.1 lbs.) including mounting bracket

Splitter:

Length: 133 mm (5.3 in.) including cable glands

Width: 80 mm (3.2 in.)

Height: 59 mm (2.4 in.)

Weight: 230 g (0.6 lbs.)

Power Supply Unit, EU model:

Length: 355 mm (14.0 in.)

Width: 146 mm (5.8 in.) including cable glands

Height: 83 mm (3.3 in.)

Weight: 2.8 kg (6.2 lbs.)

Power Supply Unit, US model:

Length: 355 mm (14.0 in.)

Width: 186 mm (7.4 in.) including cable glands

Height: 90 mm (3.6 in.)

Weight: 3.4 kg (7.5 lbs.)

Dynamic Effects

Color mixing: RGBW (RGBW models)

Intensity: 0 - 100% (all models)

Control and Programming

Control options: DMX, programmable default scene

Color control modes: RGB, RGBW (RGBW models)

Control modes: Calibrated and raw (all models)

DMX channels: 1 (CW, NW and WW models), 3/4 (RGBW models)

Setting and addressing: IR remote control unit, RDM-compliant controller

Dimming resolution: 14-bit (internal)

DMX compliance: USITT DMX512-A

RDM compliance: ANSI/ESTA E1.20

Receiver: RS-485

Firmware update: Serial upload via DMX link

Optics

Light source: Cree MC-E high-power emitters

Color temperature (CW model): 6500 K

Color temperature (NW model): 4000 K

Color temperature (WW model): 2700 K

Minimum LED lifetime: 50 000 hours (to >70% luminous output)*

*Figure obtained under manufacturer's test conditions:

Construction

Color: Steel grey (custom colors available upon request)

Housing: Aluminum with micro-arc oxidation coating, stainless steel protection frame
Mounting bracket: 1.5 mm (0.1 in.) stainless steel
Front glass: Polycarbonate with UV and mechanical protection coating
Protection rating: Luminaire IP68, Splitter IP65 (IP68 with sealing compound), PSU IPX7

Installation

Orientation: Any
Vertical aiming: 330°
Minimum distance to illuminated surfaces: 0.1 m (4.0 in.)
Mounting: Surface mount, 35 mm (1.4 in.) DIN rail, mounting post, ground stake

Connections

All cable entries: IP68 cable gland
Internal, power and data: Quick connector terminals

Electrical

Power supply unit: External PSU in IPX7-rated housing
AC power (input to EU model PSU): 100-240 V nominal, 50/60 Hz
AC power (input to US model PSU): 100-240 V nominal, 60 Hz
System power (output from PSU): 20 - 40 VDC (36 VDC nominal)
Power consumption, steady state, all LEDs at zero intensity: 0.42 W per luminaire

Typical Power and Current

Calibrated RGB mode, RGBW Luminaire: 12 W, 0.4 A at 30 VDC
Uncalibrated RGBW mode, RGBW Luminaire: 18 W, 0.6 A at 30 VDC
Calibrated mode, white (CW, NW or WW) Luminaire: 17 W, 0.6 A at 30 VDC
Uncalibrated mode, white (CW, NW or WW) Luminaire: 18 W, 0.6 A at 30 VDC
Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

Thermal

Cooling: Convection

Maximum ambient temperature (Ta max.): 45° C (113° F)
Minimum ambient temperature (Ta min.): -40° C (-40° F), power must be maintained below 0° C (32° F)

Approvals

EU safety: EN 60598-2-5 (EN 60598-1)
EU EMC: EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety: UL 1598, UL 8750
US Safety approvals apply to the entire system using the US model PSU:

Included Items

Included with luminaire:
3 m (9 ft. 11 in.) luminaire cable (pre-installed)
Adjustable mounting bracket

Included with Splitter:

Blanking plug for sealing unused luminaire cable gland
Blanking plug for sealing unused hybrid cable gland
DMX line terminators

Included with PSU:

Blanking plug for sealing unused data cable gland
Two blanking plugs for sealing unused mains power or hybrid cable glands
DMX line terminators
Safety and installation guide

Accessories

Exterior 50 and 100 infrared remote control: P/N 90510210
Exterior 100 light shield, narrow, set of five: P/N 90510240
Exterior 100 light shield, medium, set of five: P/N 90510250
Exterior 100 light shield, wide, set of five: P/N 90510260
Exterior 50 and 100 standard mounting post, 270 mm (10.7 in.): P/N 90510310
Exterior 50 and 100 telescopic mounting post, 160-290 mm (6.3-11.5 in.): P/N 90510300
Exterior 50 and 100 ground stake: P/N 90510320
IP68 Sealing Compound Set (for use with Splitters): P/N 90510220
Gel-sealed cable connection box for extending luminaire cable: P/N 90510230
Exterior 50 and 100 luminaire cable extn., 10 m (32 ft. 10 in.), gel-sealed conn. box: P/N 90510200
Exterior 50 and 100 splitter link hybrid cable, 25 m (82 ft. 1 in.): P/N 90510170
Exterior 50 and 100 splitter link hybrid cable, 50 m (164 ft. 1 in.): P/N 90510180
Exterior 50 and 100 splitter link hybrid cable, 100 m (328 ft. 1 in.): P/N 90510190
Hybrid cables carry both power and data:

Related Items

Martin M-PC V3™ Pro (up to 64 DMX universes) incl. Martin USB Duo™: P/N 90732010
Martin M-PC V3™ Basic (up to 8 DMX universes) incl. Martin USB Duo™: P/N 90732070
Martin USB Duo™ USB/DMX Interface Box: P/N 90703010

Spare Parts

3.15 AT (slow-blow) primary fuse for EU model PSU: P/N 05020013

Ordering Information

Exterior 100™ IP68 RGBW, Narrow: P/N 90510000
Exterior 100™ IP68 RGBW, Medium: P/N 90510010
Exterior 100™ IP68 CW, Narrow: P/N 90510020
Exterior 100™ IP68 CW, Medium: P/N 90510030
Exterior 100™ IP68 NW, Narrow: P/N 90510040
Exterior 100™ IP68 NW, Medium: P/N 90510050
Exterior 100™ IP68 WW, Narrow: P/N 90510060
Exterior 100™ IP68 WW, Medium: P/N 90510070
Exterior 50 & 100™ PSU (Power Supply Unit), EU model: P/N 90510150
Exterior 50 & 100™ PSU (Power Supply Unit), US model: P/N 90510155
Exterior 50 & 100™ Splitter: P/N 90510160
CW = Cool White, NW = Neutral White, WW = Warm White

