



GALLERY



Exterior 420

For white light designs requiring the added flexibility of color temperature control from warm to cold white, the Exterior 420™ offers one of the most powerful white light units on the market, with even output across a wide color temperature range.

The Exterior 400™ Range

The outdoor installation market now has the best combination of powerful, compact and energy-efficient LED light fixtures. No matter the application - long or short throw, cold or warm white, dynamic or static color - the Exterior 400 Range does it all.

Perfect color temperature control from warm to cold white

Very high efficacy

No color separation or shadows due to use of premixed LED

FEATURES

TECHNICAL SPECIFICATIONS

Physical

Length: 169 mm (6.7 in.) including cable gland

Width: 307 mm (12.1 in.)

Height: 401 mm (15.8 in.)

Weight: 7.6 kg (16.8 lbs.) including bracket

Dynamic Effects

Color temperature control: Variable

Control and Programming

Color control modes: Color temperature control and intensity

Control options: DMX, stand-alone, synchronized (master/client)

DMX channels: 2

DMX address setting: PC with Martin MUM™ software and DABS1™ hardware interface

Stand-alone trigger options: Internal timer and/or ambient light level

Stand-alone and master/client programming: PC with Martin MUM™ software and

DABS1™ hardware interface

26-bit control (internal): Color temperature control and intensity

Protocol: USITT DMX512 -A

Receiver: RS-485

Firmware update: Serial upload via DMX link

Optics

Light source: Cree XP-E high power emitters

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

Very Narrow (no diffuser), Narrow, Medium and Wide beam angles available

*Figure obtained under manufacturer's test conditions:

Construction

Color: Clear anodized, black or white

Housing: Anodized aluminum

Mounting bracket: 8 mm (0.32 in.) anodized aluminum

Front glass: 6 mm (0.24 in.) anti-reflection coated

Protection rating: IP65

Installation

Orientation: Any

Mounting: Flat surface at any angle, pedestal or other suitable support

Vertical aiming: 330°

Minimum distance to illuminated surfaces: 0.1 m (0.33 ft.)

Connections

Power cable entry: IP68 cable gland

Power connection: 1.8 m (5.9 ft.) cable tail

Data cable entry: IP68 cable gland

Data connection: 1.8 m (5.9 ft.) combined input + output cable tail

Electrical

AC power: 100-240 V nominal, 50/60 Hz

Standby power: 13 W
Power supply unit: Integrated, auto-sensing multi-voltage
Main fuse: 2.5 AT (slow blow)

Typical Power and Current

100 V, 50 Hz: 139 W, 1.4 A, PF 0.990
100 V, 60 Hz: 139 W, 1.4 A, PF 0.989
110 V, 60 Hz: 137 W, 1.3 A, PF 0.988
120 V, 60 Hz: 136 W, 1.2 A, PF 0.986
208 V, 60 Hz: 133 W, 0.7 A, PF 0.932
230 V, 50 Hz: 132 W, 0.7 A, PF 0.925
240 V, 50 Hz: 131 W, 0.7 A, PF 0.886

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.): -30° C (-22° F), power must be maintained below 0° C (32° F)

Maximum surface temperature, steady state, at 40° C ambient: 90° C (194° F)

Total heat dissipation (calculated, +/- 10%): 480 BTU/hr.

Approvals

EU safety: EN 60598-2-5 (EN 60598-1), IEC/EN 60825-1

EU EMC: EN 55015, EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3

US safety (US model): UL 1598

Canadian safety (US model): CAN/CSA C.22.2 No. 250

Included Items

Adjustable mounting yoke

Narrow, Medium and Wide diffusers (supplied separately with product)

Hard-wired 1.8 m (5.9 ft.) power and data in/out cable tails without connectors

User manual

Accessories

Diffuser, Exterior 400 Series, Narrow: P/N 41600122

Diffuser, Exterior 400 Series, Medium: P/N 41600123

Diffuser, Exterior 400 Series, Wide: P/N 41600124

Diffuser, Exterior 400 Series, Narrow, Directional 15°x1°: P/N 41600156

Diffuser, Exterior 400 Series, Medium, Directional 30°x3°: P/N 41600157

Diffuser, Exterior 400 Series, Wide, Directional 60°x1°: P/N 41600158

Diffuser, Exterior 400 Series, Wide, Directional 60°x10°: P/N 41600159

Exterior 200 floor stand: P/N 91611305

Safety eyebolt: P/N 91611239

3-pin male XLR connector, cable-type, IP65: P/N 91611306

3-pin female XLR connector, cable-type, IP65: P/N 91611307

Related Items

Martin DABS1™ USB interface box incl. cables: P/N 90758090

Spare Parts

2.5 AT main fuse: P/N 05020010

Ordering Information

Exterior 420, EU Model, Aluminum: P/N 90545051

Exterior 420, US Model, Aluminum: P/N 90545152

Exterior 420, EU Model, Black: P/N 90545062

Exterior 420, US Model, Black: P/N 90545162

Exterior 420, EU Model, White: P/N 90545072

Exterior 420, US Model, White: P/N 90545172

