

# 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



GALLERY



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

