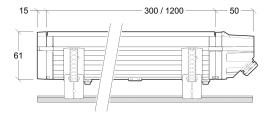
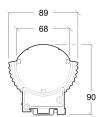
The Extube Series is a modular system of IP65-rated linear LED luminaires designed for the dynamic illumination of facades, bridges and structures. With RGBW color mixing and a choice of diffusers, Extube is ideal for floodlighting, wall-grazing or creating continuous, decorative lines of color, inside or outside.

- 12 or 48 LEDs in 4 colors: Red, Green, Blue and White
- RGBW color mixing
- · Choice of optical diffuser films narrow, medium, wide
- Simple click-together system: cable-less loop-through of power and data
- · Easy installation: slides onto DIN rail
- Tiltable for precise optical aiming
- Weatherproof rating: IP65
- Slim, inconspicuous design
- Available in two lengths: 300 mm (12 in.) / 1200 mm (47.2 in.)
- No need for any external power supply, it s all built-in
- · Choice of DMX control modes: RGB, RGBW, HSI, HSIC
- Auto-addressing during set-up





Physical Length: 300 mm (11.8 in.) / 1200 mm (47.2 in.), plus end cap 15 mm (0.6 in.) and

connections cap 55 mm (2.2 in.) if installed

Width: 89 mm (3.5 in.)

Height: 90 mm (3.5 in.) including mounting bracket for DIN rail Weight: 300mm model 1.5 kg (3.3 lbs.), 1200mm model 5 kg (11.0 lbs.)

Dynamic Effects Color mixing: RGBW

> Red: 0 - 100% Green: 0 - 100% Blue: 0 - 100% White: 0 - 100%

Color temperature control: 2 000 - 10 000 K continuous mixing

Optics Light source: Luxeon Rebel high power emitters

White LED: Neutral white, 3500 - 4500 K, CRI 75

Total LED power: 300mm models approx. 25 W, 1200mm models approx. 100 W Very Narrow (no diffuser), Narrow, Medium and Wide beam angles available

Control and Programming

Color control modes: RGB, RGBW, HSI, HSIC

Control system: DMX

DMX channels: 3 or 4 on 300mm models, 3, 4, 12 or 16 on 1200mm models

Grouped pixel control options: 1 x 3 (all as one group) on 300mm models, 1 x 12 (all as one group) or 4 x 3 on 1200mm models



DMX address setting: Martin MUM application, cascading auto-addressing

26-bit control (internal): RGB, RGBW, HSI, HSIC

Protocol: USITT DMX512-A

Receiver: RS-485

Firmware update: Serial upload via DMX link

Construction Housing: Aluminum

> Finish: Clear anodized, black or white Front glass: UV-resistant clear polycarbonate

End covers: PA6 nvlon Mounting brackets: PA6 nvlon Protection rating: IP65

Installation Orientation: Any

> Aiming: +/- 90° in 25 steps of approx. 7° Mounting: 35 mm (1.4 in.) DIN top-hat rail

Maximum interconnected length per power input: 26 m (85.3 ft.) at 230-240 V, 22 m (72.2

ft.) at 208 V, 13 m (42.7 ft.) at 110-120 V,

or 11 m (36.1 ft.) at 100 V

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

> Data connection: 1.8 m (5.9 ft.) cable tail Fixture-to-fixture: Quick IP65 plug-in system

Electrical AC power: 100-120/200-240 V nominal, 50/60 Hz

Max. peak inrush current: 300mm models 250 mA; 1200mm models 1 A

Standby power: 300mm models 3 W; 1200mm models 12 W Power supply unit: Integrated, auto-sensing multi-voltage

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, Ta=40° C (104° F): 90° C (194° F)

Total heat dissipation (calculated, +/- 10%): 300mm models 110 BTU/hr.; 1200mm models 440 BTU/hr.

Approvals



EU safety: EN 60598-1, EN 60598-2-1

LED Safety: IEC 60825-1, 2001; IEC 62471, 2006 EU EMC: EN 55 015, EN 55 103, EN 61 000-3

US safety (pending): UL 1598

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

Included Items Extube 300 mm

2 x adjustable brackets for mounting on DIN rail

2 x Extube locking clips

300mm diffuser, Medium: P/N 41600115 300mm diffuser, Wide: P/N 41600116

Extube 1200 mm

2 x adjustable brackets for mounting on DIN rail

2 x Extube locking clips Four 300mm diffusers, Medium Four 300mm diffusers, Wide

Extube Power Connection Kit, EU and US types

Input cap with 1.8 m (5.9 ft.) power and data cable tails

End cap with integral DMX termination

User manual: P/N 35000212 4 x Extube locking clips

Accessories 250 mm (9.8 in.) Extension Kit (output cap, cable and input cap),

EU/US: P/N 91610094

2000 mm (78.7 in.) Extension Kit (output cap, cable and input cap),

EU/US: P/N 91610095

300mm diffuser, Medium: P/N 41600115



300mm diffuser, Wide: P/N 41600116

Four 300mm diffusers, Narrow: P/N 91610098 Four 300mm diffusers, Medium: P/N 91610099 Four 300mm diffusers, Wide: P/N 91610100 DIN rail set (ten 2 m (6.6 ft.) lengths): P/N 91602009

1200mm models use 4 x 300mm diffusers

Ordering Information Extube Power Connection Kit, EU type: P/N 91610086

> Extube Power Connection Kit, US type: P/N 91610087 Extube 300mm, Aluminum, Narrow: P/N 90352200 Extube 300mm, Black, Narrow: P/N 90352201 Extube 300mm, White, Narrow: P/N 90352202 Extube 1200mm, Aluminum, Narrow: P/N 90352210 Extube 1200mm, Black, Narrow: P/N 90352211

Extube 1200mm, White, Narrow: P/N 90352212

Photometric Data

1200mm, Very Narrow (Balanced white 5600

Kelvin)

Efficacy: 9.3 lumens per watt

Half-peak angle: 19° Total output: 1200 lm

1200mm, Very Narrow (All LEDs on)

Efficacy: 8.1 lumens per watt

Half-peak angle: 19° Total output: 1000 lm

1200mm, Very Narrow (Only 12 x blue LEDs

Efficacy: 1.7 lumens per watt

Half-peak angle: 19° Total output: 120 lm

1200mm, Very Narrow (Only 12 x white

Efficacy: 10 lumens per watt Half-peak angle: 19°

on)

Total output: 680 lm

1200mm, Very Narrow (Only 12 x green

Efficacy: 9.9 lumens per watt

Half-peak angle: 20° Total output: 670 lm

1200mm, Very Narrow (Only 12 x red LEDs

Efficacy: 5.9 lumens per watt

Half-peak angle: 20° Total output: 280 lm

1200mm, Narrow (Only 12 x white LEDs on)

Efficacy: 9.6 lumens per watt

Half-peak angle: 26° Total output: 650 lm

1200mm, Narrow (Balanced white 5600

Kelvin)

Efficacy: 9 lumens per watt

Half-peak angle: 27° Total output: 1200 lm

1200mm, Narrow (All LEDs on)

Efficacy: 7.9 lumens per watt

Half-peak angle: 27° Total output: 1000 lm

1200mm, Narrow (Only 12 x blue LEDs on)

Efficacy: 1.7 lumens per watt

Half-peak angle: 27° Total output: 110 lm

1200mm, Narrow (Only 12 x red LEDs on)

Efficacy: 5.7 lumens per watt

Half-peak angle: 27° Total output: 270 lm

1200mm, Narrow (Only 12 x green LEDs on)

Efficacy: 9.5 lumens per watt



Half-peak angle: 28° Total output: 650 lm

1200mm, Medium (Only 12 x white LEDs on) Efficacy: 9 lumens per watt

> Half-peak angle: 32° Total output: 610 lm

1200mm, Medium (All LEDs on) Efficacy: 7.5 lumens per watt

> Half-peak angle: 33° Total output: 960 lm

1200mm, Medium (Only 12 x blue LEDs on) Efficacy: 1.6 lumens per watt

> Half-peak angle: 33° Total output: 110 lm

1200mm, Medium (Only 12 x red LEDs on) Efficacy: 5.4 lumens per watt

> Half-peak angle: 33° Total output: 260 lm

1200mm, Medium (Balanced white 5600 Efficacy: 8.7 lumens per watt Kelvin)

Half-peak angle: 33° Total output: 1100 lm

Efficacy: 9.2 lumens per watt 1200mm, Medium (Only 12 x green LEDs on)

> Half-peak angle: 34° Total output: 630 lm

1200mm, Wide (Only 12 x white LEDs on) Efficacy: 8.7 lumens per watt

> Half-peak angle: 39° Total output: 590 lm

1200mm, Wide (Balanced white 5600 Efficacy: 8.4 lumens per watt

Kelvin) Half-peak angle: 40° Total output: 1100 lm

1200mm, Wide (All LEDs on) Efficacy: 7.2 lumens per watt

> Half-peak angle: 40° Total output: 930 lm

1200mm, Wide (Only 12 x red LEDs on) Efficacy: 5.1 lumens per watt

> Half-peak angle: 40° Total output: 250 lm

1200mm, Wide (Only 12 x blue LEDs on) Efficacy: 1.5 lumens per watt

> Half-peak angle: 41° Total output: 100 lm

1200mm, Wide (Only 12 x green LEDs on) Efficacy: 8.7 lumens per watt

> Half-peak angle: 42° Total output: 590 lm

300mm, Very Narrow (All LEDs on) Efficacy: 8.1 lumens per watt

> Half-peak angle: 19° Total output: 260 lm

300mm, Very Narrow (Balanced white Efficacy: 9.3 lumens per watt

5600K) Half-peak angle: 19° Total output: 300 lm

300mm, Very Narrow (Only 3 x blue LEDs Efficacy: 1.7 lumens per watt

Half-peak angle: 19° Total output: 30 lm

300mm, Very Narrow (Only 3 x white LEDs Efficacy: 10 lumens per watt



on) Half-peak angle: 19° Total output: 170 lm

300mm, Very Narrow (Only 3 x green LEDs Efficacy: 9.8 lumens per watt

> Half-peak angle: 20° Total output: 170 lm

300mm, Very Narrow (Only 3 x red LEDs Efficacy: 5.9 lumens per watt

> Half-peak angle: 20° Total output: 70 lm

300mm, Narrow (Only 3 x white LEDs on) Efficacy: 9.6 lumens per watt

> Half-peak angle: 26° Total output: 160 lm

300mm, Narrow (Only 3 x red LEDs on.) Efficacy: 5.7 lumens per watt

> Half-peak angle: 27° Total output: 70 lm

300mm, Narrow (All LEDs on) Efficacy: 7.8 lumens per watt

Half-peak angle: 27° Total output: 250 lm

300mm, Narrow (Balanced white 5600K) Efficacy: 9 lumens per watt

> Half-peak angle: 27° Total output: 290 lm

Efficacy: 1.6 lumens per watt 300mm, Narrow (Only 3 x blue LEDs on)

> Half-peak angle: 27° Total output: 30 lm

Efficacy: 9.5 lumens per watt 300mm, Narrow (Only 3 x green LEDs on)

> Half-peak angle: 28° Total output: 160 lm

300mm, Medium (Only 3 x white LEDs on) Efficacy: 9.1 lumens per watt

> Half-peak angle: 32° Total output: 150 lm

300mm, Medium (Only 3 x red LEDs on) Efficacy: 5.3 lumens per watt

> Half-peak angle: 33° Total output: 60 lm

300mm, Medium (All LEDs on) Efficacy: 7.6 lumens per watt

Half-peak angle: 33° Total output: 240 lm

300mm, Medium (Balanced white 5600K) Efficacy: 8.7 lumens per watt

> Half-peak angle: 33° Total output: 280 lm

300mm, Medium (Only 3 x blue LEDs on) Efficacy: 1.6 lumens per watt

> Half-peak angle: 33° Total output: 30 lm

300mm, Medium (Only 3 x green LEDs on) Efficacy: 9.2 lumens per watt

> Half-peak angle: 34° Total output: 160 lm

300mm, Wide (Only 3 x white LEDs on) Efficacy: 8.7 lumens per watt

> Half-peak angle: 39° Total output: 150 lm

300mm, Wide (Only 3 x red LEDs on) Efficacy: 5 lumens per watt



Half-peak angle: 40° Total output: 60 lm

300mm, Wide (All LEDs on) Efficacy: 7.2 lumens per watt

> Half-peak angle: 40° Total output: 230 lm

300mm, Wide (Balanced white 5600K) Efficacy: 8.3 lumens per watt

> Half-peak angle: 40° Total output: 270 lm

300mm, Wide (Only 3 x blue LEDs on) Efficacy: 1.4 lumens per watt

> Half-peak angle: 40° Total output: 20 lm

300mm, Wide (Only 3 x green LEDs on) Efficacy: 8.5 lumens per watt

> Half-peak angle: 42° Total output: 140 lm

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