# CX-4 SPECIFICATIONS

### Description

- The CX-4 is an automated profile spotlight designed for a 150 watt discharge source. It provides colors, gobos, 5 beam angles, a frost effect, continuous dimming, adjustable focus, and multiple control options. It may be operated with DMX controllers, the Martin MC-1 remote control, or as a stand-alone unit with master/slave capability.

### Physical

- Length: 296 mm (11.7 in)
- Width: 269 mm (10.6 in)
- Height: 270 mm (10.6 in)
- Weight: 8.5 kg (18.7 lbs)

### Source

- Lamp: 150 W discharge with G 12 base
- Models: Philips CDM-SA/T, GE Arcstream
- Alternate lamp: 150 W discharge with GY 9.5 base (conversion required)
- Alternate models: GE CSS, OSRAM HTI, Martin Metal Halide

### Photometrics (Standard)

- Light output (w/ CDM-SA/T): 1110 lumens
- Illuminance (lux or fc): 29,400 cd/distance$^2$ (m or ft)
- Diameter: 0.28 x distance
- Beam angle: 16°
- Measurement conditions: 230 V, 50 Hz; no effects applied
- Measurement source: Philips CDM-SA/T 150

### Electromechanical effects

- Color wheel: 6 colors, 3 CTC filters, 1 multicolor, open; split positions
- Effect wheel: 6 colors, 4 beam reducers, 4 gobos, frost, open, closed; flash effects
- Dimmer: 0 - 100%

### Control & Programming

- Control options: DMX-512, MC-1, "random" stand-alone, master/slave
- Stand-alone trigger options: automatic & music
- Transceiver: RS-485
- Setting and addressing: DIP-switch
- Firmware update: AVR Programmer upload
- DMX speed control: tracking and vector
- DMX channels: 1, 6
- Data I/O: 3-pin XLR; pin 1 shield, pin 2 cold (-), pin 3 hot (+)

### Installation

- Mounting points: One 13 mm hole and four 6 mm holes in mounting bracket
- Orientation: any
- Minimum distance to combustible materials: 0.1 m (4 in)
- Minimum distance to illuminated surfaces: 0.3 m (12 in)
- Minimum clearance around fan and air vents: 0.1 m (4 in)

### Thermal

- Maximum ambient temperature (Ta): 40° C (104° F)
- Maximum surface temperature: 65° C (149° F)
- Total heat dissipation: 700 Btu/hr

### AC Supply

- AC input: 3-pin IEC male socket
- Wiring options: 100/120/210/230/250 V, 50/60 Hz

### Maximum power and current

- 100 V, 50 Hz: 210 W, 2.9 A
- 120 V, 60 Hz: 205 W, 2.1 A
- 210 V, 60 Hz: 160 W, 1.1 A
- 230 V, 50 Hz: 205 W, 1.1 A
- 250 V, 50 Hz: 200 W, 1.1 A

### Design standards

- EU EMC: EN 50 081-1, EN 50 082-1
- EU safety: EN 60598-1, EN 60598-2-17
- Canadian safety: CSA C22.2 NO 166
- US safety: ANSI/UL 1573

### Construction

- Housing: UV-resistant fiber-reinforced composite
- Finish: integral color (black) or polyurethane coating (titanium)
- Protection factor: IP 20

### Ordering information

- CX-4, black: P/N 90320400
- CX-4, titanium: P/N 90320430

### Accessories

### Included items

- MC-1 Controller, EU: 90718000
- MC-1 Controller, US: 90718100
- G-clamp: 91602003
- Half-coupler clamp: 91602005
- 3 m IEC mains cable
- Philips CDM-SA/T 150W discharge lamp
- User manual

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**Sample project specification**

- **General**
  The luminaire shall be an automated 150 watt profile spotlight with color filters, gobos, and mechanical dimmer. The luminaire shall be the Martin CX-4.
- **Mechanical effects**
  The luminaire shall provide two overlapping wheels for the insertion of color filters and other effects. The first wheel shall provide six dichroic color filters, three dichroic color temperature correction filters, one multicolor filter, and an open position. The second wheel shall provide six dichroic color filters, four beam-reducing gobos, four pattern gobos, a frost filter, an open position, and a closed position.
  The luminaire shall provide continuous, full-range dimming by means of a mechanical dimmer.
- **Control**
  The luminaire shall respond to command signals conforming to the USITT DMX512 (1990) standard and shall have locking 3-pole XLR connectors for input and throughput of serial data.
- **Performance**
  The luminaire shall emit a beam 16° wide when focused on an open position and no effects are applied.
- **Housing**
  The luminaire shall be constructed of sheet steel and aluminum. The covers shall be constructed of a UV-resistant fiber-reinforced composite material with integral black color. The finish of the covers shall natural black or an applied titanium color polyurethane coating.
- **Installation**
  The luminaire shall operate in any orientation. It shall have a mounting bracket with a dedicated mounting point to which a mounting clamp may be bolted. When installed above floor level, a means of secondary attachment shall be employed.
- **Electrical**
  The luminaire shall be capable of operation on 50 and 60 Hz supplies at 100, 120, 210, 230, and 250 volts, plus/minus five percent. It shall be fitted with a three-prong male IEC socket for connection to AC power. The luminaire shall be electrically grounded.
  The luminaire shall conform to CE safety standards EN 60598-1 and EN 60598-2-17, and to CE electromagnetic compatibility standards EN 50 081-1 and EN 50 082-1. The luminaire shall conform to CSA standard C22.2 No. 166 and ANSI/UL standard 1573 (Certification pending).
- **Environmental**
  The luminaire shall be located in a dry area in which the ambient temperature does not exceed 40° C (104° F).
- **Physical**
  Size: 296 x 269 x 270 mm (11.7 x 10.6 x 10.6 in.).
  Weight: 8.5 kg (18.7 lbs).

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