

RoboColor Pro 400 Specifications

Description

- ☞ The RoboColor Pro 400 is an automated color-changing profile washlight designed for stage & installation applications. It features 2 overlapping 6-position color flags, 3 beam-shaping irises, and a full range dimmer.

Physical

- ☞ Length: 286 mm (11.2 in)
- ☞ Width (including bracket): 334 mm (13.5 in)
- ☞ Height (including bracket): 262 mm (10.3 in)
- ☞ Weight: 12 kg (26.4 lbs)

Source

- ☞ Philips MSD 200: 2000 hr, 5900 K, 67 lm/W
- ☞ Base: GY 9.5
- ☞ Power: remote switchable

Photometrics (Standard)

- ☞ Light output (21° lens): 2750 lumens

Electromechanical effects

- ☞ Color flag 1: 6 colors + open, split positions
- ☞ Color flag 2: 6 colors + open, split positions
- ☞ Effect flag: 33%, 67%, and 100% iris gobos; soft-edged open position
- ☞ Dimmer/shutter: 0-100% dimming, strobe up to 10 flashes per second
- ☞ Focus: manual, 2 m to infinity

Control & Programming

- ☞ Control options: USITT DMX-512, Martin RS485
- ☞ Setting and addressing: DIP-switch
- ☞ DMX channels: 5 - 7
- ☞ DMX speed control: tracking and/or vector
- ☞ Receiver: RS-485
- ☞ Data I/O: 3-pin XLR; pin 1 shield, pin 2 hot (+), pin 3 cold (-)

Installation

- ☞ Orientation: any
- ☞ Minimum distance to combustible materials: 0.1 m (4 in)
- ☞ Minimum distance to illuminated surfaces: 0.3 m (12 in)

Thermal

- ☞ Maximum ambient temperature (Ta): 40° C (104° F)
- ☞ Maximum surface temperature: 65° C (169° F)

AC Supply

- ☞ AC input: 3-prong IEC male socket
- ☞ Wiring options, EU model: 230/240/250 V, 50 Hz
- ☞ Wiring options, US model: 210 V, 60 Hz, 225 V, 50/60 Hz
- ☞ Power and current: 250 W, 1.25 A @ 230 V, 50 Hz

Design standards

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

Construction

- ☞ Housing: aluminum and steel

- ☞ Finish: black electrostatic powder coating

Ordering information

- ☞ RoboColor Pro 400 EU, 21°: 90305000
- ☞ RoboColor Pro 400 EU, 33°: 90305050
- ☞ RoboColor Pro 400 EU, 15°: 90305040
- ☞ RoboColor Pro 400 US, 21°: 90305104
- ☞ RoboColor Pro 400 US, 33°: 90305154
- ☞ RoboColor Pro 400 US, 15°: 90305144

Included items

- ☞ User manual: 35000062
- ☞ XLR cable: 5 m, black, 3-pin, 11820008
- ☞ Mains cable, EU model: 3 m, IEC 3-pin, 11501013
- ☞ Mains cable, US model: 2 m, IEC female / 3-pronged male, 11501501
- ☞ Mounting bracket: 21020340
- ☞ Mounting bracket washers (2): 08260106
- ☞ Mounting bracket lock handles (2): 08132307

Accessories

- ☞ Objective, 15°: 62332026
- ☞ Objective, 21°: 62332027
- ☞ Objective, 33°: 62332028
- ☞ Step-up transformer for 100/110/120 V AC: 91611006

Sample project specification

- ☞ **General**

The luminaire shall be an automated color-changing washlight employing the Philips MSD 200 discharge lamp as the light source. The luminaire shall be the Martin RoboColor Pro 400.

- ☞ **Mechanical effects**

The luminaire shall provide two overlapping and combinable color flags. Each flag shall have 6 color filters and another position for a direct pass through of the beam. All filters shall be dichroic glass. The luminaire shall have an effects flag with 3 apertures for varying the beam size plus an open position that provides a soft-edged wash effect. The luminaire shall provide a mechanical dimmer that dims from 0 to 100%.

- ☞ **Control**

The luminaire shall respond to command signals conforming to either the USITT DMX512 (1990) standard or the Martin RS485 standard. The luminaire shall have two 3-pole XLR connectors for serial data transfer.

- ☞ **Performance**

In the standard 21° configuration, when fitted with a new lamp, and with no colors applied, the luminaire shall emit a total luminous flux of 2750 lumens.

- ☞ **Housing**

The luminaire shall be constructed of sheet steel and aluminum. The exterior finish shall be an electrostatically applied powder coating. The color shall be black.

- ☞ **Installation**

The luminaire shall operate in any orientation. It shall be supplied with a yoke fitting to which a mounting clamp may be bolted.

- ☞ **Electrical**

(EU model only) The luminaire shall operate on 50 Hz supplies at 230, 240, and 250 volts plus/minus five percent. (US model only) The luminaire shall operate on 60 Hz supplies at 210 and 225 volts plus/minus five percent. (Optional) It shall be provided with a step-up transformer for operation on 100/110/120 volt supplies. 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 be cETL certified for compliance with

CSA standard C22.2 No. 166 and ETL certified for compliance with ANSI/UL standard 1573. It shall conform with CE standards EN 60598-1 and EN 60598-2-17 for safety, and with CE standards EN 50 081-1 and EN 50 082-1 for electromagnetic compatibility.

☞ **Environmental**

The luminaire shall be located in a dry area in which the ambient temperature does not exceed 40° C (104° F).

☞ **Physical**

Size including yoke: 286 x 334 x 262 mm (11.2 x 13.5 x 10.3 in) Weight : 12 kg (26.4 lbs)