

MAC 600 NT




Martin


The MAC 600 NT is an updated version of the highly successful MAC 600 wash light. It is an automated moving head featuring a newly designed CMY color mixing system. The new system offers enhanced, uniform color mixing and can create virtually unlimited shades and color choices.

Useful in a variety of environments and wherever dynamic color wash projection is needed, the MAC 600 NT is perfect for touring, theater, TV and architectural applications. Additional improvements make the MAC 600 NT an even more capable wash luminaire for theater and television.

Optics
<p>Four focal options are available – 18° near angle, 25° standard, 65° diffusion and a super-wide angle lens (80°). No tools are required to change between them. The sidelight protector controls beam projection at the point of emergence by preventing unwanted light spill.</p> 

Color wheel
 <p>The color wheel houses 4 replaceable color slots offering deep red, deep green and an extra blue color plus UV and open.</p>

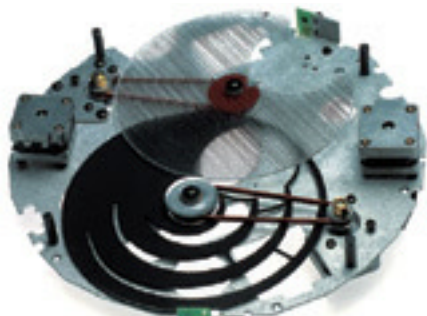
Lamp
 <p>A powerful 575-watt discharge lamp provides up to 2000 hours of lamp life. The MAC 600 NT accepts four different lamp models from two top industry manufacturers.</p>

Shutter
<p>A separate mechanical shutter allows for variable strobe rates of up to 8 Hz.</p> 



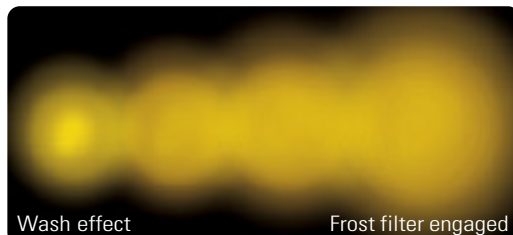
Dimmer

The specially coated aluminum dimmer controls intensity from full open to blackout with microstep smoothness.



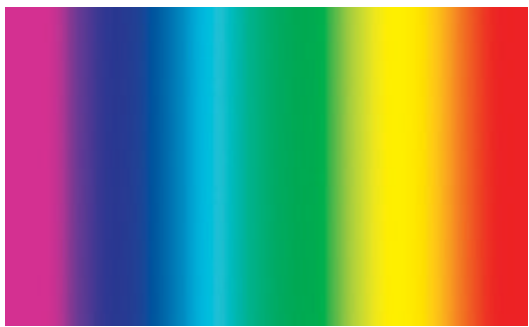
Zoom Effect

A variable frost filter provides zoom effect possibilities. Smooth, continuous transition from standard to wider beam angles creates the same zoom possibilities as conventional 1 and 2 kW lights.



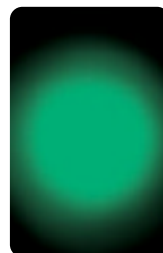
New CMY color mixing system

A new and innovative CMY color mixing system provides improved color distribution using a unique color flag system. Virtually unlimited color choices are possible and together with the color wheel, it is possible to achieve rich reds, greens and blues as well as soft pastel colors.



Beam shaper wheel

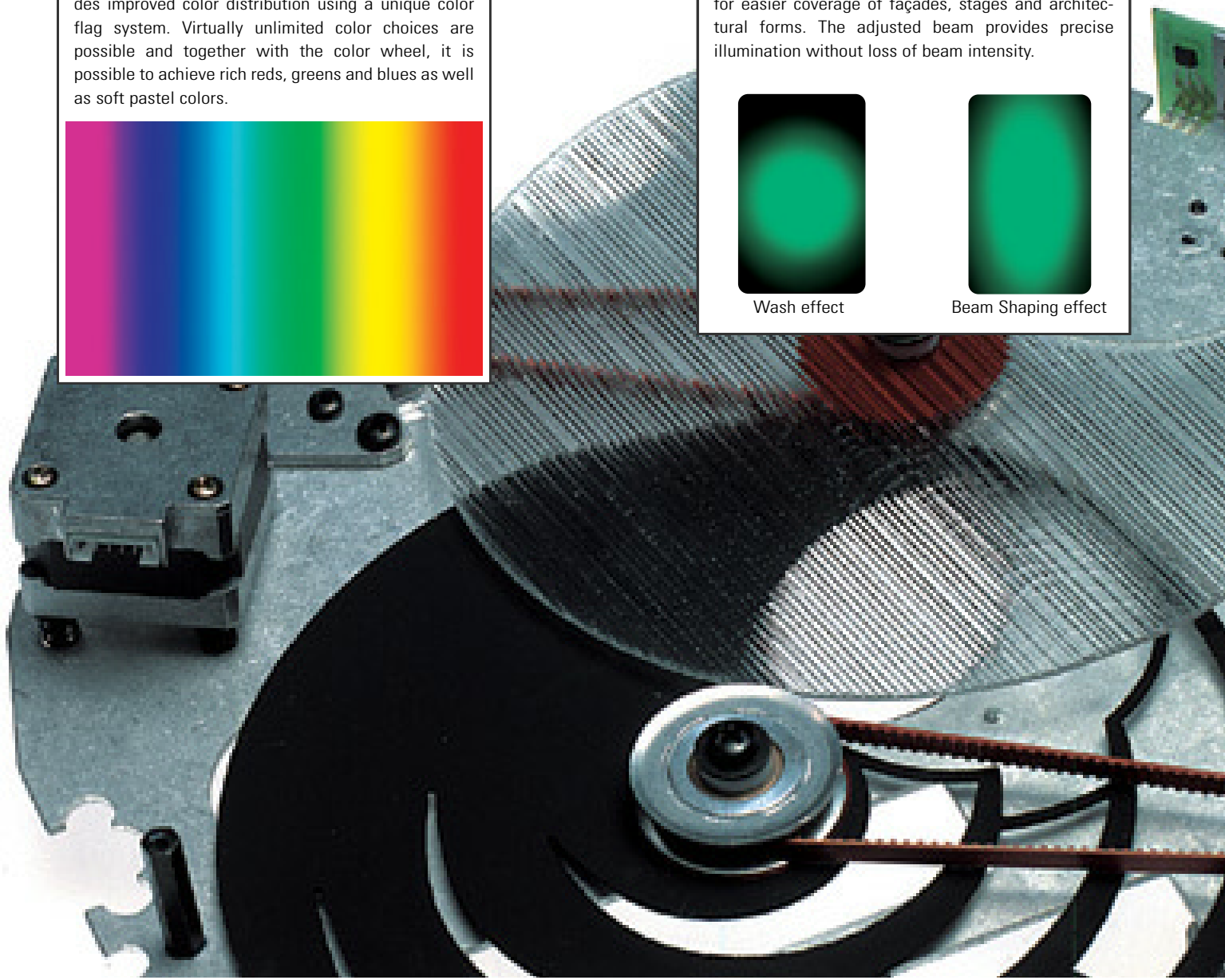
A unique beam shaping system dynamically changes the round light beam into a rotational elliptical beam for easier coverage of façades, stages and architectural forms. The adjusted beam provides precise illumination without loss of beam intensity.



Wash effect



Beam Shaping effect



Easy Maintenance



Convenient secure snap-locks make for easy component accessibility. Maintenance is simple.

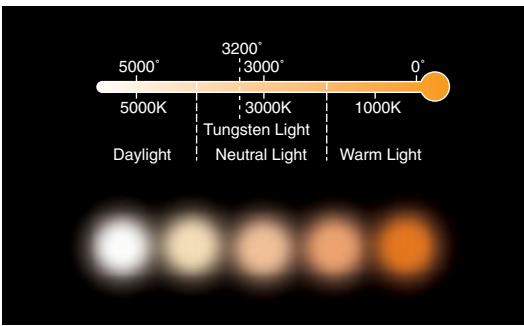
LED Display



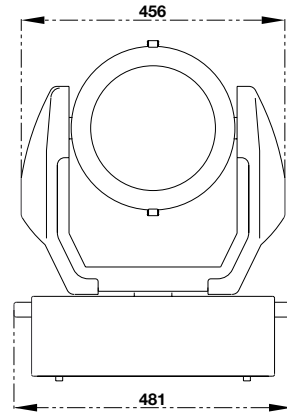
A 4-digit LED readout allows the user to customize settings for easy programming. Error messages are easily understood, lamp and fixture usage is displayed and the readout flips for easy reading in any position.

Graduated CTC system

A new and innovative color temperature correction (CTC) system makes it possible to gradually and smoothly increase or decrease color temperature.

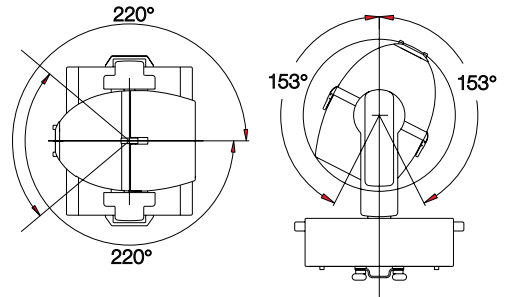


Elevations

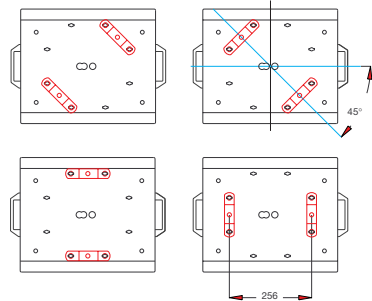


Pan and Tilt

The lumination head features 440° of horizontal pan and 306° of vertical tilt. Self-adjusting motor belts insure smooth and quick adjustments.

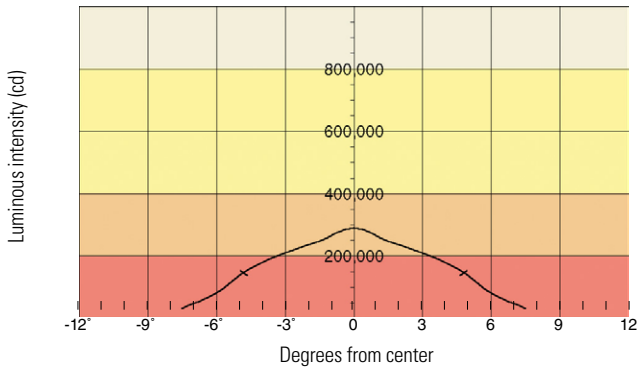


Rigging

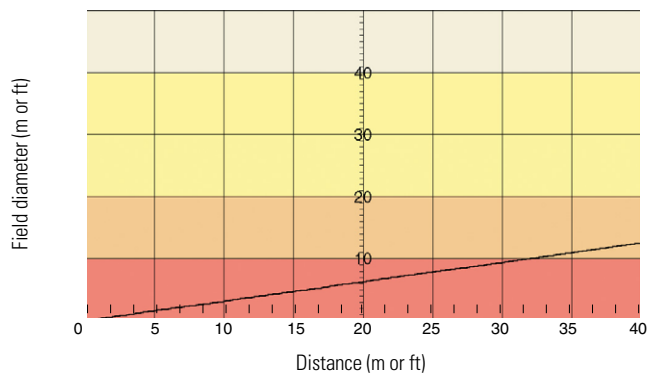
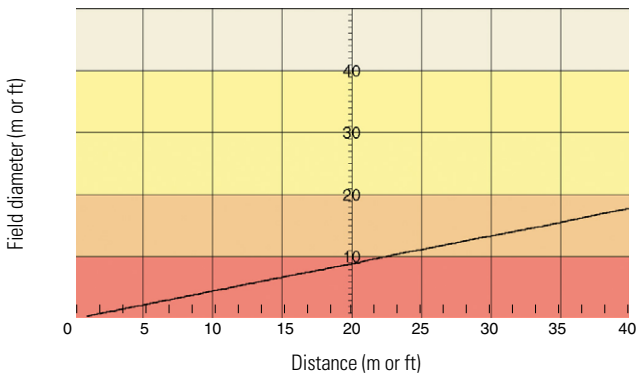
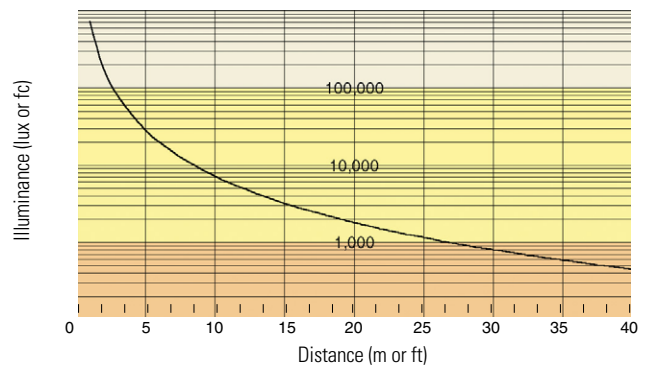
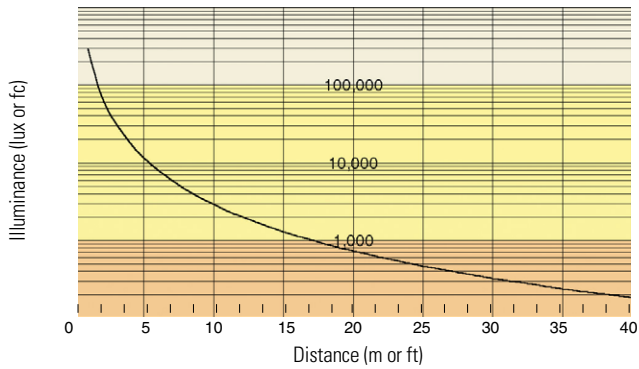
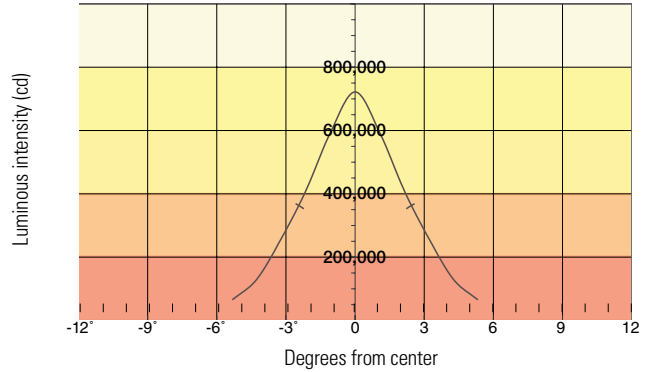


Dedicated anchoring points, a safety wire attachment point, a quarter-turn fastening system and mid-pan-range locator make for versatile and trouble-free rigging.

Standard 25° Lens



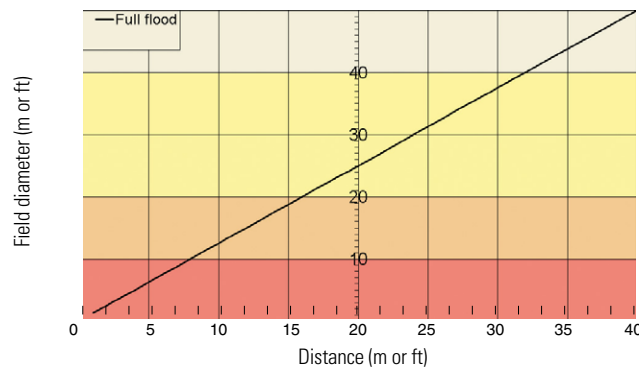
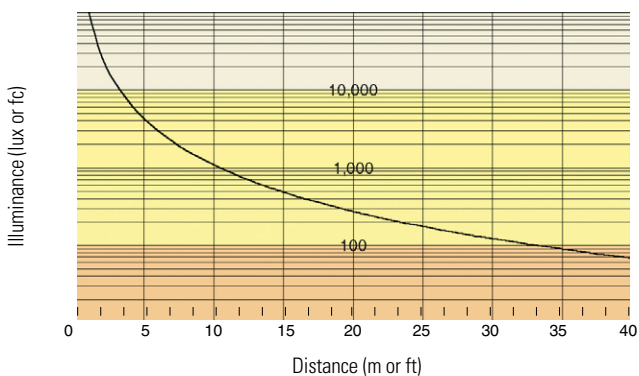
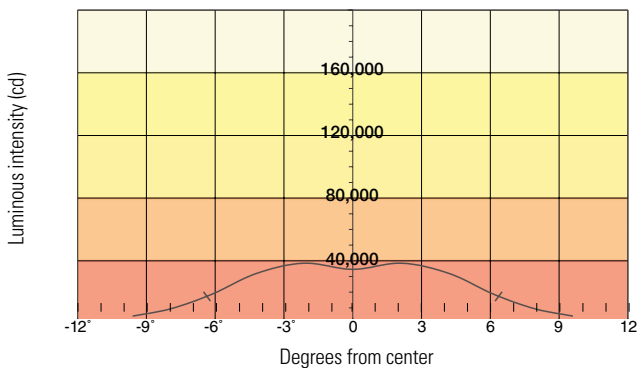
Optional 18° Lens



Illuminance (lux or fc) 291,093 cd / distance² (m or ft)
 Diameter 0.44 x distance
 Field angle 25°
 Measurement conditions 230 V, 50 Hz; no color or effects applied
 Measurement source Philips MSR 575/2

Illuminance (lux or fc) 721,920 / distance² (m or ft)
 Diameter 0.31 x distance
 Field angle 18°
 Measurement conditions 230 V, 50 Hz; no color or effects applied
 Measurement source Philips MSR 575/2

Optional 65° Lens



Illuminance (lux or fc)	.....	34,560 / distance ² (m or ft)
Diameter	.....	1.25 x distance
Field angle	.....	.65°
Measurement conditions	.....	.230 V, 50 Hz; no color or effects applied
Measurement source	.....	.Philips MSR 575/2

Specifications for the MAC 600 eNT

Description

The MAC 600 eNT is an electronic ballast version that provides flicker-free operation and an economic power-saving mode.

Physical

- Length: 356 mm (14.0 in)
- Width: 481 mm (18.9 in)
- Height (head at tilt limit): 652 mm (25.7 in)
- Weight: MAC 600 eNT: 25.4 kg (55.9 lbs)

AC Supply

- AC input: 3 m trailing cable w/o cord cap
- Wiring options (electronic ballast): 100/110/120/200/210/220/230/240 V, 50-60 Hz
- Maximum power and current: 690 W, 3.2 A @ 230 V, 50 Hz

Ordering information

- MAC 600 eNT: 90210600

Specification

General

The luminaire shall be an automated yoke-mounted, color-mixing, 575 Watt Fresnel washlight with continuous color temperature correction and electronic ballast. The luminaire shall be the Martin MAC 600 E NT.

Electrical

The luminaire shall operate on 50 Hz and 60 Hz supplies at 100, 110, 120, 200, 210, 220, 230, and 240 volts; +/- five percent. It shall be fitted with a 3 meter (9.8 ft.) length of three conductor 1.5 sq. mm (16 AWG) electrical cable for connection to AC power. The luminaire shall be electrically grounded. The luminaire 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.

Physical

Size (head at tilt limit): 356 x 481 x 652 mm (14.0 x 18.9 x 25.7 in)
 Weight: 25.4 kg (55.9 lbs)

Specifications

Description

The MAC 600 NT is an automated, yoke-mounted, Fresnel washlight for a 575 Watt source. It provides cyan, magenta, and yellow (CMY) color mixing; 0 - 178 mireds color correction, 4-position color wheel, 0 - 100 percent dimming, high-speed shutter, beam-shaping, and variable frost.

Physical

- Length: 356 mm (14.0 in)
- Width: 481 mm (18.9 in)
- Height (head at tilt limit): 652 mm (25.7 in)
- Weight: 31.5 kg (69.3 lbs)

Source

- Lamp: 575 W discharge
- Base: GX 9.5
- Approved models: Philips MSR 575/2, MSD 575; Osram HSR 575/2, HSD 575
- Control: automatic and/or remote on/off

Standard photometrics

- Light output (MSR 575/2): 20,500 lumens
- Illuminance (lux or fc): 291,093 cd / distance² (m or ft)
- Diameter: 0.44 x distance
- Field angle: 25°
- Measurement conditions: 230 V, 50 Hz; no color or effects applied
- Measurement source: Philips MSR 575/2

Optional narrow angle photometrics

- Illuminance (lux or fc): 721,920 cd / distance² (m or ft)
- Diameter: 0.31 x distance
- Field angle: 18°
- Measurement conditions: 230 V, 50 Hz; no color or effects applied
- Measurement source: Philips MSR 575/2

Optional wide angle photometrics

- Illuminance (lux or fc): 34,560 cd / distance² (m or ft)
- Diameter: 1.25 x distance
- Field angle: 65°
- Measurement conditions: 230 V, 50 Hz; no color or effects applied
- Measurement source: Philips MSR 575/2

Thermal

- Maximum ambient temperature (Ta): 40° C (104° F)
- Maximum surface temperature: 140° C (284° F)
- Total heat dissipation: 2560 Btu/hr

Control and programming

- Control protocol: USITT DMX-512
- Setting and addressing: LED control panel, remote with MP-2 Uploader
- Firmware update: serial upload (MUF)
- Pan/tilt resolution: 8- or 16-bit
- DMX speed control: tracking and/or vector
- DMX channels: 11 - 15
- Receiver: Opto-isolated RS-485
- Data I/O: locking 3-pin XLR female; pin 1 shield, pin 2 cold (-), pin 3 hot (+)

AC Supply

- AC input: 3 m trailing cable w/o cord cap
- Wiring options: 200/230/245 V, 50 Hz; 208/227 V, 60 Hz
- Maximum power and current: 750 W, 4.2 A @ 208 V, 60 Hz; 750 W, 3.9 A @ 750 W 3.9 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

Electromechanical

- Cyan filter: 0 - 100%
- Magenta filter: 0 - 100%
- Yellow filter: 0 - 100%
- Color correction filter: 0 - 178 mireds
- Color wheel: 4 interchangeable filters + open
- Dimmer: 0 - 100%
- Shutter: flash up to 8 Hz
- Beam shaper: 0 - 180°
- Frost filter: 0 - 100%
- Pan: 440° in 0.013° steps
- Tilt: 306° in 0.007° steps

Construction

- Housing: steel and aluminum with molded plastic yoke covers
- Color: black (RAL 9005)
- Metal finish: electrostatic powder coating
- Protection factor: IP 20, IP 44 with Outdoor Protection Dome

Installation

- Mounting points: 8 pairs of 1/4-turn locks, offset 45°
- Orientation: any
- Minimum installation distance, center-to-center: 457 mm (18 in)
- Minimum distance to combustible materials: 1 m (39 in)
- Minimum distance to illuminated surfaces: 1 m (39 in)

Ordering information

- MAC 600 NT: 90210400
- MAC 600 eNT: 90210600

Included items

- 1/4-turn Omega bracket, MAC 500/600 (2): 91602001
- XLR cable: 5 m, black, 3-pin male/female: 11820008
- Sidelight protector (snoot) 17100010
- User manual: 35000088

Accessories

- Outdoor Protection Dome: 90525010
- MP-2 Uploader: 90758420
- Flight case for 2 x MAC 500/600: 91510002
- 18° "long front" with Fresnel lens: 91610005
- 65° floodlight diffuser on standard front: 91610008
- Super-wide angle lens: 41600041
- G-clamp: 91602003
- Half-coupler clamp: 91602005
- The Martin Wife: 91611038
- Martin King Dome

Specification General

The MAC 600 NT is an automated yoke-mounted Fresnel washlight designed for a 575 Watt source. It provides CMY color mixing, continuous color correction, four removable color filters, full-range continuous dimming, separate shutter, beam-shaping, and frost.

The MAC 600 E NT is an electronic ballast version that provides flicker-free operation and an economic power-saving mode.

Mechanical effects

The luminaire provides subtractive cyan, magenta, and yellow color mixing; a separate wheel with removable red, green, blue, and UV-transmitter filters; and a continuous 0 - 178 mireds color correction filter. All filters are dichroic glass. The luminaire provides a mechanical dimmer to regulate output intensity from 0 to 100 percent and a separate mechanical stopping shutter to open and close the light at variable speeds of up to 8 flashes per second. It also provides a dynamic glass beam shaper that rotates 180° and a variable frost filter that widens and softens the beam. The yoke pans 440° in 0.013° steps; the head tilts 306° in 0.007° steps. The pan and tilt position are monitored by a feedback system capable of rapidly correcting externally introduced errors.

Control

The luminaire has two locking 3-pole XLR connectors for serial data transfer. It responds to command signals conforming to the USITT DMX512 (1990) standard. All user-selected settings are adjustable via an onboard control panel with LED display or with a remote control unit.

Performance

In the standard configuration, when fitted with a new MSR 575/2 discharge lamp, and with no colors or effects applied, the luminaire emits a total luminous flux of 20,500 lumens in a beam 25° wide, where the outside edge of the beam is defined as the circle having one-tenth the intensity of the beam's midpoint.

Housing

The luminaire is constructed of sheet steel and aluminum. The exterior finish is an electrostatically applied powder coating. Non-structural covers are constructed of molded plastic. The color is black.

Installation

The luminaire operates in any orientation. It is supplied with two brackets to which mounting clamps may be fastened. The brackets attach to the base with quarter-turn fasteners such that the luminaire may be installed at any increment of 45° in the plane defined by the luminaire's base. When installed above floor level, secondary attachment is fastened to a reinforced attachment point.

Electrical

The luminaire operates on 50 Hz supplied at 200, 230, and 245 volts; and on 60 Hz supplied at 208 and 227 volts, +/- five percent. It is fitted with a 3 meter (9.8 ft.) length of three conductor 1.5 sq. mm (16 AWG) electrical cable for connection to AC power. The luminaire must be electrically grounded.

The luminaire is cETL certified for compliance with CSA standard C22.2 No. 166, and ETL certified for compliance with ANSI/UL standard 1573. (Certification pending.) It conforms with CE safety standards EN 60598-1 and EN 60598-2-17, and with CE electromagnetic compatibility standards EN 50 081-1 and EN 50 082-1.

Environmental

The luminaire must be located in a dry area in which the ambient temperature does not exceed 40° C (104° F). If the luminaire is to be exposed to moisture or precipitation, it should be furnished with and installed in a protective housing with a minimum IP rating of 44.

Physical

The maximum dimensions of the luminaire (without accessories) are 356 x 481 x 652 mm (14.0 x 18.9 x 25.7 in). Its weight does not exceed 31.5 kg (69.3 lbs).

For a MAC 600 NT specification quote, see the product page on the Martin website: www.martin.dk

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