

MAC 600



**Martin**

The MAC 600 is an automated moving head washlight luminaire with a proven reputation for quality. It is employed in a variety of environments and wherever dynamic color wash projection is needed.

This mood and atmosphere generator produces a wide variety of colors and effects through instant and smooth positioning. Along with the MAC 500, it is one of the most successful automated moving heads in the lighting industry.

### CMY Color Mixing



A unique CMY color mixing system creates virtually unlimited color shades and ensures uniform color mixing. Martin's system software offers flexible color programming and a wide variety of color presets.

### Color Wheel

The 4-position color wheel offers red, green and blue dichroic glass filters plus 5600/3200K color temperature correction.



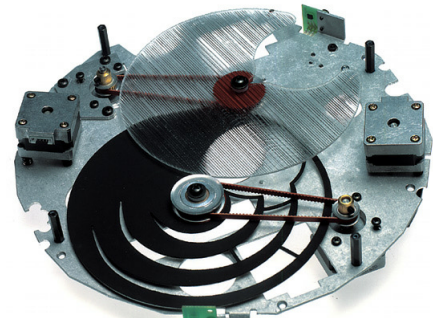
### Shutter

A separate mechanical shutter allows for variable strobe up to 8 Hz.



### Dimmer

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

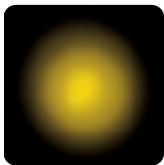


### Optics

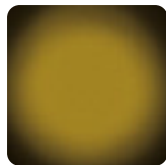
Three focal options are available – 18° near angle, 25° standard and 65° diffusion. No tools are required to change between them.



### Frost Filter



Wash effect

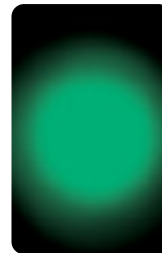


Frost filter engaged

The frost filter provides a soft, diffused beam and when engaged the field angle widens. A color filter adapter provides for any color temperature correction or dichroic option.

### Beam Shaping

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

### Lamp



A powerful 575-watt discharge lamp provides up to 2000 hours of lamp life. The MAC 600 accepts three different lamp models from two top industry manufacturers.



### Easy Maintenance



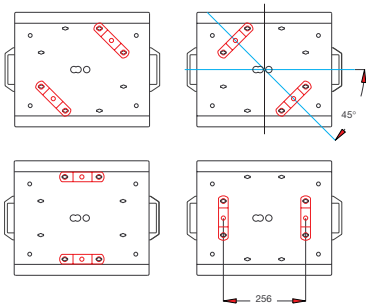
Convenient secure snap-locks make for easy component accessibility and simple lamp adjustments.

### LED Display



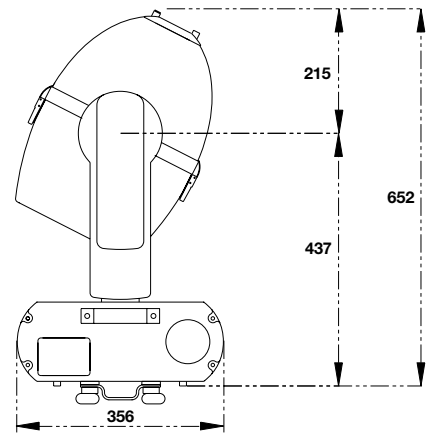
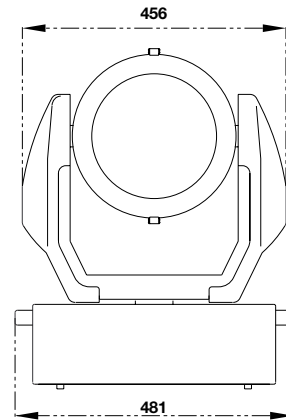
A 4-digit LED readout allows the user to customize settings for easy programming. Error messages are easily understood, lamp and fixture usage is displayed and the readout flips for easy reading in any position.

### Rigging



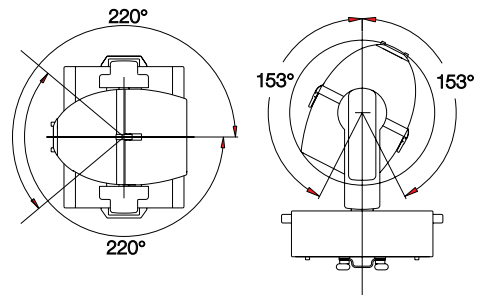
Dedicated anchoring points, a safety wire attachment point, a quarter-turn fastening system and mid-pan-range locator make for trouble free rigging.

### Elevations



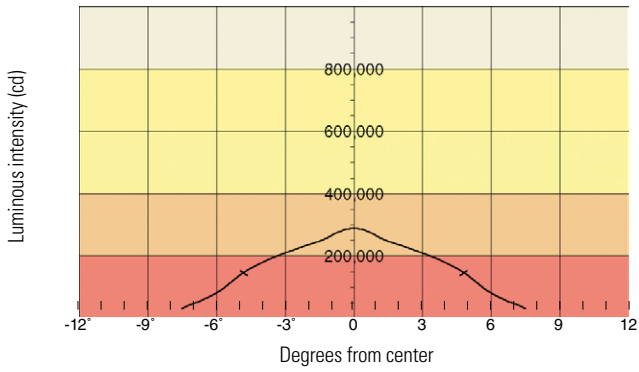
### Pan and Tilt

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

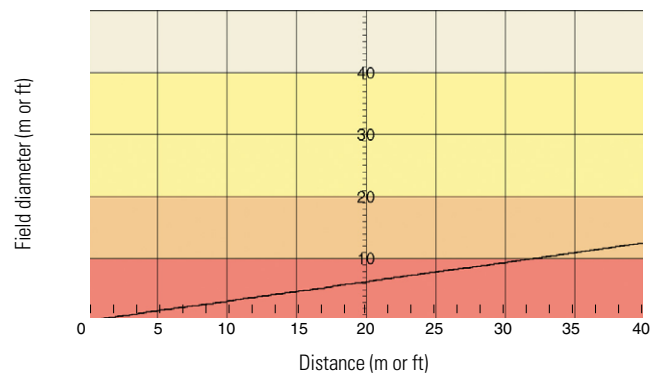
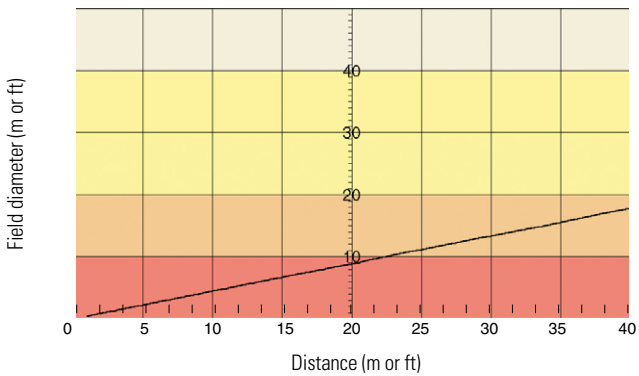
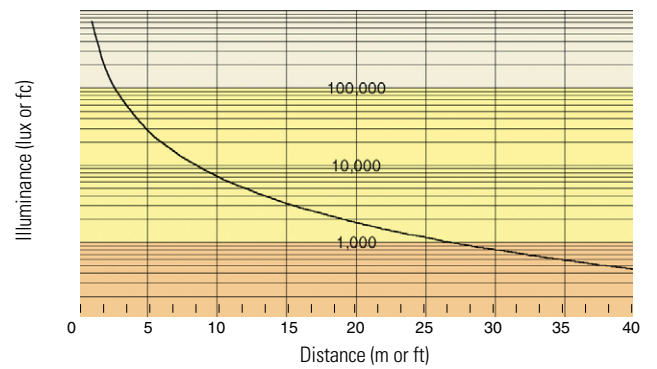
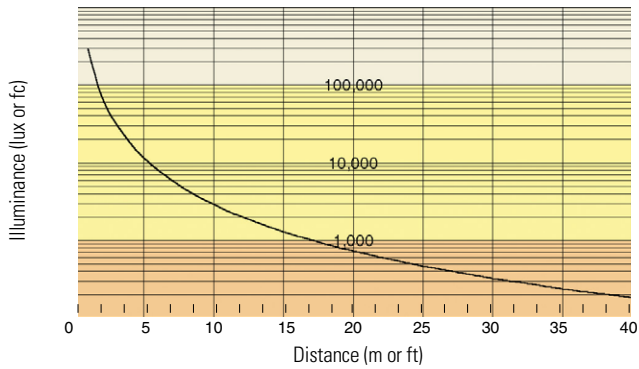
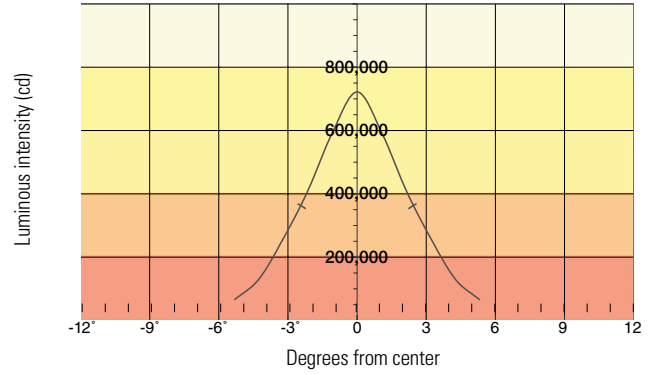




**Standard 25° Lens**



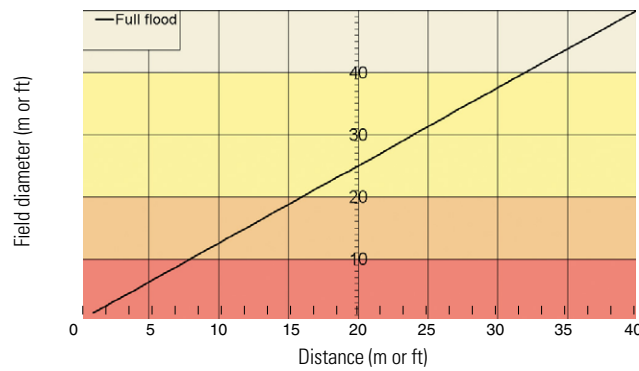
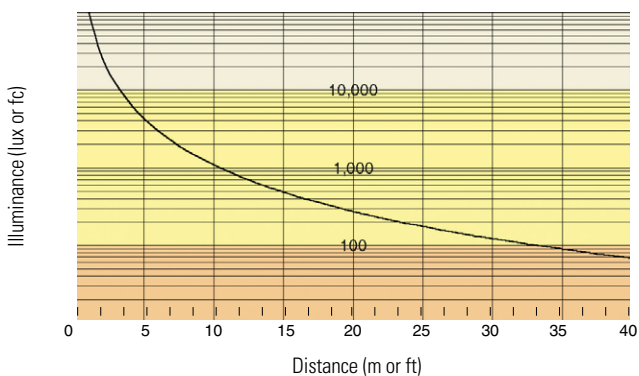
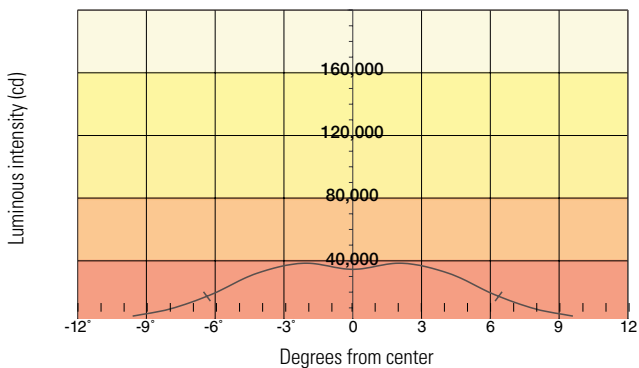
**Optional 18° Lens**



Illuminance (lux or fc) ..... 291,093 cd / distance<sup>2</sup> (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 / distance<sup>2</sup> (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 <sup>2</sup> (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 E**

**Description**

The MAC 600 E is an automated yoke-mounted Fresnel washlight with an electronic ballast designed for a 575 watt source. It has all the regular features of the MAC 600. In addition, the electronic ballast provides flicker-free operation, an economic power-saving mode, and considerably lighter weight.

**Physical**

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

**AC Supply**

- AC input: 3 m trailing cable w/o cord cap
- Wiring options, MAC 600 E: 100/110/120/210/220/230/240 V, 50-60
- Maximum power and current: 690 W, 3.2 A @ 230 V, 50 Hz

**Ordering information**

- MAC 600 E, black: 90210200

**Specification**

**General**

The luminaire is an automated yoke-mounted washlight with electronic ballast that employs a 575 Watt discharge lamp as the light source.

**Electrical**

The luminaire operates on 50 Hz and 60 Hz supplies at 100, 110, 120, 200, 210, 220, 230, and 240 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 can, without operator intervention, reduce lamp power 40 percent within ten seconds of being set to blackout condition. Lamp power is restored to full without visible delay upon opening of the dimmer.

The luminaire conforms 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 electro-magnetic compatibility.

**Physical**

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

The MAC 600 is also available in an electronic ballast version, the MAC 600 E.

## Specifications

### Description

The MAC 600 is an automated yoke-mounted Fresnel washlight designed for a 575 watt source. It features a 3-wheel CMY color mixing system with a supplemental 4-position color wheel, continuous dimming, separate shutter, combinable beam-shaping filters and frost.

### Physical

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

### Source

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

### Performance

- Light output: (standard 25° configuration) 20,500 lumens

### 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

- Data pinout: pin 1 shield, pin 2 cold (-), pin 3 hot (+)
- Receiver: Opto-isolated RS-485
- Setting and addressing via: LED control panel, MP2 Uploader
- Protocols: USITT DMX-512 (1990), Martin RS-485
- Movement control: tracking and/or vector
- DMX Channels: 10 - 14
- Data input: locking 3-pin XLR male
- Data output: locking 3-pin XLR female

### AC Supply

- AC input: 3 m trailing cable w/o cord cap
- Wiring options, MAC 600: 200/230/245 V, 50 Hz; 208/227 V, 60 Hz

### Maximum power and current

Option	Watts	Amps
200 V, 50 Hz	750	4.4
208 V, 60 Hz	750	4.2
227 V, 60 Hz	750	3.9
230 V, 50 Hz	750	3.9
245 V, 50 Hz	750	3.5

### 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

### Electromechanical

- Cyan filter: 0 - 100%
- Magenta filter: 0 - 100%
- Yellow filter: 0 - 100%
- Color wheel: 4 colors + open and split positions
- Dimmer: 0 - 100%
- Shutter: flash up to 8 Hz
- Beam shaper 1: 0 -180°
- Beam shaper 2: 0 - 90°
- Frost: on/off
- Pan: 440°, 32,768 position
- Tilt: 306°, 45,567 position

### Construction

- Housing: steel and aluminum with molded plastic yoke covers
- Colors: black
- 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, black: 90210000

### Included items

- 2 x Omega bracket, MAC 500/600, 1/4-turn: 91602001
- XLR cable, 5 m, black, 3-pin male/female: 11820008
- Sidelight protector (snoot): 17100010
- User manual: 35000018

### 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
- 90 x 90 mm color/diffuser filter holder kit: 91611001
- G-clamp: 91602003
- Half-coupler clamp: 91602005
- The Martin Wife: 91611038
- The Martin King Dome

### Specification

#### General

The luminaire is an automated yoke-mounted washlight with a subtractive cyan, magenta, and yellow color mixing system, full-range dimmer, stopping shutter, two overlapping beam-shaping filters, and frost. It employs a 575 Watt discharge lamp as the light source.

#### Mechanical effects

The luminaire provides subtractive cyan, magenta, and yellow color mixing and an additional color wheel with red, green and blue colors as well as a 5600K to 3200K color temperature correction filter and another position for a direct pass through of the beam. All filters are dichroic glass. In addition, the luminaire provides two combinable dynamic glass beam shapers and a glass frost filter. Output intensity is regulated from 0 to 100% by a mechanical dimmer and a mechanical shutter capable of opening and closing at speeds up to 8 flashes per second. The yoke pans 440° and the head tilts 306°. The position of all mechanical effects excluding the shutter is monitored and corrected by a position feedback system.

#### Control

The luminaire responds to command signals conforming to either the USITT DMX512 (1990) standard or the Martin RS485 standard. All user-selected software settings are adjustable via an onboard control panel with LED display or via data cabling in conjunction with a remote control unit. The luminaire has two locking 3-pole XLR connectors for serial data transfer.

### 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 alloy. The exterior finish is an electrostatically applied powder coating. Non-structural covers are constructed of molded plastic.

### Installation

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

### Electrical

The luminaire operates on 50 Hz supplies at 200, 230, and 245 volts; and on 60 Hz supplies at 208 and 227 volts, +/- five percent. It is fitted with a three meter 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. It conforms 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 must be located in a dry, well ventilated area in which the ambient temperature does not exceed 40° C (104° F). Where installed outdoors, the luminaire should be supplied with a protective housing with an IP rating of 44.

### Physical

Size (head at maximum tilt): 356 x 481 x 652 mm (14.0 x 18.9 x 25.7 in)  
Weight: 31.5 kg (69.3 lbs)

For a MAC 600 specification quote, see the Service and Support page on the Martin website: [www.martin.dk](http://www.martin.dk)

# Martin