

# SPECIFICATIONS - MAC 2000 WASH

## Physical

Length	408 mm (16.0 in)
Width	490 mm (19.3 in)
Height	750 mm (29.5 in)
Weight	34 kg (74.8 lbs)

## Installation

Minimum distance to combustible materials	1 m (39 in)
Minimum distance to illuminated surfaces	.3 m (10 ft)
Minimum distance around fans and vents	.0.1 m (4 in)
Orientation	any

## Source

Lamp	1200 W short arc discharge
Base	Double-ended SFC 10-4 with key
Approved models	Osram HMI 1200 W/S, Philips MSI 1200
Control	automatic and remote, hot re-strike
Ballast	electronic

## Electrical

AC input	3 m trailing cable w/o cord cap
Operating ranges	100-130/200-250 V, 50/60 Hz
Main fuses (x 2 - when local AC supply is 200 - 250 V)	15 A
Main fuses (x 2 - when local AC supply is 100 - 120 V)	T 20 A
Fuse F101	T 6.3 A
Fuse F102	T 10 A
Fuse F103	T 3.15 A
Fuse F104	T 3.15 A
Power supply	Electronic auto-ranging

## Maximum power and current

100 V @ 50 Hz	1530 W, 20.9 A
100 V @ 60 Hz	1570 W, 20.9 A
120 V @ 50 Hz	1520 W, 18 A
120 V @ 60 Hz	1520 W, 17.7 A
208 V @ 50 Hz	1450 W, 10.4 A
208 V @ 60 Hz	1450 W, 10.2 A
230 V @ 50 Hz	1450 W, 9.5 A
230 V @ 60 Hz	1460 W, 9.4 A
250 V @ 50 Hz	1450 W, 8.8 A
250 V @ 60 Hz	1460 W, 8.6 A

## Thermal

Maximum ambient temperature ( $T_a$ )	40° C (104° F)
Maximum surface temperature	140° C (284° F)
Total heat dissipation	ca. 5120 Btu/hr

## Photometrics (Standard Fresnel lens)

Measurement conditions	Standard Fresnel lens, 50 mm aperture ring
Light buster mode (no diffuser)	31300 lumens, beam angle 11° (measured at 7.6 meters)
Zoom narrow	21130 lumens, beam angle 15° (measured at 7.6 meters)
Zoom wide	32027 lumens, beam angle 40° (measured at 3.8 meters)
Measurement source	Osram HMI 1200 W/S

## Photometrics (PC lens)

Measurement conditions	PC lens, 50 mm aperture ring
Light buster mode (no diffuser)	33125 lumens, beam angle 12° (measured at 7.6 meters)
Zoom narrow	23421 lumens, beam angle 12° (measured at 7.6 meters)
Zoom wide	32550 lumens, beam angle 34° (measured at 2.3 meters)
Measurement source	Osram HMI 1200 W/S

## Photometrics (Optional super-wide-angle lens)

Measurement conditions	Super-wide-angle lens, 50 mm aperture ring
Light buster mode (no diffuser)	beam angle 66° (measured at 2.4 meters)
Zoom narrow	beam angle 70° (measured at 1.7 meters)
Zoom wide	beam angle 80° (measured at 1.7 meters)
Measurement source	Osram HMI 1200 W/S

## Control and programming

Protocol	USITT DMX-512
Control channels	19 or 21
Receiver	Opto-isolated RS-485
Data I/O	locking 3-pin & 5-pin XLR, pin 1 shield, pin 2 cold (-), pin 3 hot (+)
Setting and addressing	LED control panel, remote w/ MP-2 uploader
Pan/tilt resolution	8- or 16-bit
Movement control	tracking and vector
Software installation	serial upload (MUF)

## Electromechanical effects

Cyan	.0 - 100%
Magenta	.0 - 100%
Yellow	.0 - 100%
Color correction	0 - 178 mireds
Color wheels (1 or 2)	4 removable positions plus open
Dimmer/shutter	full range dimming, variable speed flash
Motorized zoom	see photometric data for zoom beam angles
Light buster mode	narrow beam with diffuser removed
Pan	540°
Tilt	267°

## Color filters

Shape	hexangular
Thickness	1.2 mm
Type	dichroic

## 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 157

## Listings

CE	EN 55015:2000, EN 55103-1:1996, EN 61547:1995, EN 60598-2-17 + Corr.,A2:1989
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## Construction

Housing	UV-resistant fiber-reinforced composite
Colors	black
Protection factor	IP 20

## Installation

Mounting points	8 pairs of 1/4-turn locks, offset 45°
Orientation	any

## Ordering information

MAC 2000 Wash in 2-unit flight case . . . . .	P/N 90203000
MAC 2000 Wash E in single-unit flight case . . . . .	P/N 90203010
MAC 2000 Wash E (in a cardboard packing case) . . . . .	P/N 90203015

## Included items

2 x Omega bracket, 1/4-turn  
PC lens  
Fresnel lens  
Super-wide-angle lens  
User manual  
30 mm (1.2 in), 40 mm (1.6 in), 45 mm (1.8 in) and 50 mm (2 in) aperture rings

## Accessories

DABS1 USB-XLR interface . . . . .	P/N 91611144
MP-2 Uploader . . . . .	P/N 90758420
G-clamp . . . . .	P/N 91602003
Half-coupler clamp . . . . .	P/N 91602005
The Wife DMX Tester . . . . .	P/N 91611038
MAC 2000 Wash Dimmer Wheel . . . . .	P/N 62324018
MAC 2000 Wash Barndoors . . . . .	P/N 91611059
MAC 2000 Double Flight Case . . . . .	P/N 91510017
OSRAM HMI1200 W/S lamp . . . . .	P/N 97010309