

MAC 250 Wash Specifications

PHYSICAL

Base length	375 mm (14.8 in.)
Base width	315 mm (12.4 in.)
Yoke width	393 mm (15.5 in.)
Height	538 mm (21.2 in.)
Weight	22.9 kg (50.4 lbs)

SOURCE

Lamp	250 W discharge
Base	GY 9.5
Approved models:	
Philips MSD 250/2	3000 hr, 8500 K, 250 W
Osram HSD 250/78	3000 hr, 7800 K, 250 W
GE CSD 250/2	2000 hr, 9000 K, 250 W

PHOTOMETRICS

MAC 250 Wash standard

Total output	7700 lumens
One-tenth peak output	6800 lumens
Half-peak output	3100 lumens
Cutoff angle	25.9°
One-tenth peak angle	19.1°
Half-peak angle	9.1°
Measurement conditions	226 V, 50 Hz; no effects applied
Measurement source	Philips MSD 250/2

MAC 250 Wash standard with frost

Total output	4800 lumens
One-tenth peak output	4100 lumens
Half-peak output	1900 lumens
Cutoff angle	48.8°
One-tenth peak angle	34.8°
Half-peak angle	16.0°
Measurement conditions	226 V, 50 Hz; with frost applied
Measurement source	Philips MSD 250/2

MAC 250 Wash wide-angle lens

Total output	9100 lumens
One-tenth peak output	8600 lumens
Half-peak output	4900 lumens
Cutoff angle	61.5°
One-tenth peak angle	52.5°
Half-peak angle	28.7°
Measurement conditions	232 V, 50 Hz; no effects applied
Measurement source	Philips MSD 250/2

MAC 250 Wash wide-angle lens with frost

Total output	5100 lumens
One-tenth peak output	4700 lumens
Half-peak output	2600 lumens
Cutoff angle	77.9°
One-tenth peak angle	65.6°
Half-peak angle	34.7°
Measurement conditions	232 V, 50 Hz; with frost applied
Measurement source	Philips MSD 250/2

CONTROL AND PROGRAMMING

Data input	locking 3-pin and 5-pin XLR male sockets
Data output	locking 3-pin and 5-pin XLR female sockets
Data pinout	pin 1 shield, pin 2 cold (-), pin 3 hot (+)
Receiver	Opto-isolated RS-485
Protocol	USITT DMX-512 (1990)
DMX Channels	13 (16-bit mode) or 19 (16-bit Extended mode)

THERMAL

Maximum ambient temperature (T_a)	40° C (104° F)
Maximum surface temperature	160° C (320° F)

AC POWER

Operating range	100 - 250 V, 50/60 Hz
AC input	3-prong IEC male socket

Typical power and current

100 V, 50 Hz	319 W, 3.8 A, PF 0.83
100 V, 60 Hz	317 W, 3.4 A, PF 0.93
120 V, 50 Hz	320 W, 2.9 A, PF 0.91
120 V, 60 Hz	314 W, 2.7 A, PF 0.96
208 V, 50 Hz	320 W, 1.9 A, PF 0.81
208 V, 60 Hz	319 W, 1.7 A, PF 0.92
230 V, 50 Hz	323 W, 1.6 A, PF 0.89
230 V, 60 Hz	326 W, 1.5 A, PF 0.95
250 V, 50 Hz	326 W, 1.5 A, PF 0.89
250 V, 60 Hz	325 W, 1.4 A, PF 0.96

V = volts, Hz = hertz, W = watts, A = amps, PF = power factor

Allow for a deviation of +/- 10% from typical figures listed above.

Measurements made at nominal voltage. Local supply voltages can vary by +/- 10%.

Fuses

Main fuse	6.3 A / 250 V, time-delay – P/N 05020020
Fuse F1	6.3 A / 250 V, time-delay – P/N 05020020
Fuse F2	2.0 A / 250 V, time-delay – P/N 05020009

ELECTROMECHANICAL EFFECTS

Cyan filter	0 - 100%
Magenta filter	0 - 100%
Yellow filter	0 - 100%
Color wheel	6 colors plus open and split positions
Dimmer	0 - 100%
Shutter	Variable from 0 - 14 flashes per second
Zoom diffuser	0° - 16°
Pan	540° in 0.013° steps
Tilt	257° in 0.007° steps

APPROVALS



EU EMC	EN 55 103-1, EN 55 015, EN 61 547
EU safety.....	EN 60598-2-17
US safety.....	ANSI/UL 1573
Canadian safety	CSA C22.2 NO 166

CONSTRUCTION

Housing	UV-resistant fiber-reinforced composite
Ingress protection factor	IP 20

INSTALLATION

Orientation	any
Minimum distance to combustible materials.....	0.1 m (4 in.)
Minimum distance to illuminated surfaces	0.5 m (20 in.)
Minimum center-to-center distance between MAC 250 Wash fixtures	410 mm (16.2 in.)

INCLUDED ITEMS

Philips MSD 250/2 lamp (installed).....	P/N 97010114
Safety wire	P/N 62400327
T-bracket, MAC 250/300 1/4-turn (2 pcs.).....	P/N 91602008
XLR cable, 5 m (16.4 ft), black, 3-pin	P/N 11820008
Mains cable, 3 m (9.8 ft), IEC 3-pin	P/N 11501013
Wide-angle lens	P/N 41600026
User manual	P/N 35000164

ACCESSORIES

G-clamp	P/N 91602003
Half-coupler clamp	P/N 91602005
The Wife DMX Tester	P/N 91611038
MP-2 Uploader	P/N 90758420
DABS-1 Uploader	P/N 91611144
DMX termination plug (3-pin male XLR).....	P/N 91613017

ORDERING INFORMATION

MAC 250 Wash (in cardboard box).....	P/N 90225810
MAC 250 Wash (in flightcase)	P/N 90225800