

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 (installed as standard)	3000 hr, 8500 K, 250 W
Osram HSD 250/78	3000 hr, 7800 K, 250 W
GE CSD 250/2	3000 hr, 9000 K, 250 W

DYNAMIC EFFECTS

Color mixing	CMY, independently variable 0 - 100%
Color wheel	6 interchangeable filters (incl. UV transmitter and CTC) + open, indexing, continuous rotation
Mechanical dimmer	0 - 100%
Shutter	Strobe effect up to 14 Hz, pulse effects, instant open and blackout
Diffuser	Variable frost filter
Pan	540°
Tilt	257°

CONTROL AND PROGRAMMING

DMX channels	13/19
Setting and addressing	Control panel with LED display
16-bit control	CMY, color wheel, dimmer, frost, pan and tilt
Movement control options	Tracking and vector
Protocol	USITT DMX512/1990
Receiver	Opto-isolated RS-485
Firmware update	Serial upload via DMX link

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

CONNECTIONS

AC Power input	.3-pin IEC
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 (+)

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.

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
2 x T-shaped clamp attachment brackets MAC 250/300, with 1/4-turn fasteners	P/N 91602008
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

MAC 250 Beam Kit	P/N 91610101
DMX termination plug, 3-pin male XLR	P/N 91613017
Half-coupler clamp	P/N 91602005
G-clamp	P/N 91602003
Quick trigger clamp	P/N 91602007
Safety wire, universal, 50 kg safe work load	P/N 91604003
Double flightcase (empty) for MAC 250 Krypton/Entour/Wash	P/N 91510014

RELATED ITEMS

Martin DABS1™ USB-XLR interface device and cables	P/N 91611144
Martin Universal USB-DMX Interface Box™	P/N 90702045

ORDERING INFORMATION

MAC 250 Wash™, white (in cardboard box)	P/N 90225830
MAC 250 Wash™ (in cardboard box)	P/N 90225840
MAC 250 Wash™ (in double flightcase)	P/N 90225841

Specifications subject to change without notice. For the latest product specifications, see www.martin.com