

Specifications

Physical

Length	200 mm (7.9 in.)
Width	320 mm (12.6 in.)
Height	388 mm (15.3 in.)
Weight	8.9 kg (19.6 lbs.) excl. brackets

Dynamic Effects

Color mixing	RGB
Red	0 - 100%
Green	0 - 100%
Blue	0 - 100%
Electronic 'color wheel' effect	7 colors plus white, color wheel rotation effect, snap, blackout or dimmer fade at color changes
Variable CTC	
Electronic dimming	0 - 100%, two dimming curve options for overall/individual RGB intensity
Zoom	13 - 36°
Strobe effect	Electronic, with pulse and random effects
Pan	430°
Tilt	300°
Adjustable pan/tilt and effects speed	

Optics

Light source	Luxeon Rebel high power emitters
Red	621-637 nm
Green	525-542 nm
Blue	445-461 nm

Control and Programming

Control options	DMX, stand-alone, master/slave
Control resolution	8- and 16-bit
DMX channels	12/15/16/19
Setting and addressing	Control panel with backlit graphic display
Protocol	USITT DMX512/1990
Stand-alone memory	20 scenes
Stand-alone programming	Control panel with backlit graphic display
Transceiver	RS-485
Firmware update	Serial upload via DMX link

Construction

Color	Black
Housing	High-impact flame-retardant thermoplastic
Protection rating	IP 20

Installation

Mounting points	2 pairs of 1/4-turn locks
Orientation	Any
Minimum distance to illuminated surfaces	250 mm (9.8 in.)
Minimum distance to combustible materials	100 mm (3.9 in.) from head, no min. distance from base

Connections

AC power input	1.6 m cable tail
DMX data in/out	3-pin and 5-pin locking XLR

Electrical

AC power	100-240 V nominal, 50/60 Hz
Maximum total power consumption	350 W
Power supply unit	Auto-ranging electronic switch mode
Main fuse	6.3 AT (slow blow)
Standby power	<60 W

Typical Power and Current

100 V, 60 Hz	344 W, 3.5 A, PF 0.998
110 V, 60 Hz	341 W, 3.1 A, PF 0.997
120 V, 60 Hz	338 W, 2.9 A, PF 0.996
208 V, 60 Hz	331 W, 1.7 A, PF 0.983
230 V, 50 Hz	332 W, 1.5 A, PF 0.972
240 V, 50 Hz	332 W, 1.5 A, PF 0.968

PF = power factor. Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

Thermal

Cooling	Forced air (temperature-regulated, low noise, user-definable levels)
Maximum ambient temperature (Ta max.)	40° C (104° F)
Minimum ambient temperature (Ta min.)	5° C (41° F)
Total heat dissipation (calculated, +/- 10%)	1200 BTU/hr.

Approvals



EU safety	EN 60598-1, EN 60598-2-17
EU EMC	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4
US safety (US model)	UL 1573, UL 8750
Canadian safety (US model)	CAN/CSA C.22.2 No. 166

Included Items

Two Omega clamp attachment brackets with 1/4-turn fasteners for MAC 301	2 x P/N 91602015
User manual	P/N 35000228
6.3 AT main fuse (installed)	P/N 05020020

Accessories

MAC 301 Software Uploader	P/N 90758099
MAC 301 Diffusion Filter	P/N 91611324
G-clamp	P/N 91602003
Half-coupler clamp	P/N 91602005
Quick trigger clamp	P/N 91602007
Safety wire, universal, 50 kg safe work load	P/N 91604003
DMX cable, STP, 1 pair + shield, IEC/UL-CL, 1 m	P/N 91611242
DMX cable, STP, 1 pair + shield, IEC/UL-CL, 2 m	P/N 91611243
DMX cable, STP, 1 pair + shield, IEC/UL-CL, 5 m	P/N 91611244
DMX cable, STP, 1 pair + shield, IEC/UL-CL, 10 m	P/N 91611245
DMX cable, STP, 1 pair + shield, IEC/UL-CL, 20 m	P/N 91611246
Four-unit flightcase for 4 x MAC 301	P/N 91510021

Spare parts

6.3 AT main fuse	P/N 05020020
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Ordering Information

MAC 301 Wash™, EU model (100-240 V, 50/60 Hz), in cardboard box	P/N 90218000
MAC 301 Wash™, EU model (100-240 V, 50/60 Hz), in 4-unit flightcase	P/N 90218001
MAC 301 Wash™, US model (100-240 V, 50/60 Hz), in cardboard box	P/N 90218100
MAC 301 Wash™, US model (100-240 V, 50/60 Hz), in 4-unit flightcase	P/N 90218101

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



Disposing of this product

Martin™ products are supplied in compliance with Directive 2002/96/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), as amended by Directive 2003/108/EC, where applicable.

Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of Martin products.