

Specifications

Physical

Length	.241 mm (9.5 in.) across yoke
Width	.241 mm (9.5 in.) across yoke
Height	.304 mm (12.0 in.)
Weight	.3.7 kg (8.2 lbs.)

Dynamic Effects

MAC 101 RGB

Electronic color wheel effect	.33 LEE-referenced colors plus white, color wheel rotation effect
Color mixing	.RGB
Red	.0 - 100%
Green	.0 - 100%
Blue	.0 - 100%
Color temperature control	.Variable 10 000 - 2500 K

MAC 101 CT

Color temperature control	.Variable 2800 - 6200 K
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All models

Shutter effect	.Electronic, with pulse and random effects
Electronic dimming	.0 - 100%, four dimming curve options
Pan	.540°
Tilt	.240°
Pan/tilt speed	.Adjustable

Optics and Photometric Data

MAC 101 RGB

Light source	.12 red, 12 green and 12 blue Cree XP-E high power emitters
Total luminous output	.2300 lm

MAC 101 CT

Light source	.12 cold white and 24 warm white Cree XP-E high power emitters
Total luminous output	.4000 lm

MAC 101 WRM

Light source	.36 warm white (2800 K) Cree XP-E high power emitters
Total luminous output	.3600 lm

MAC 101 CLD

Light source	.36 cold white (6700 K) Cree XP-E high power emitters
Total luminous output	.4500 lm

All models

Minimum LED lifetime	.50 000 hours (to >70% luminous output)*
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**Manufacturer's figure obtained under manufacturer's test conditions*

Control and Programming

MAC 101 RGB

DMX control options	.3 control modes (RGB raw/calibrated, RGB + CTC enabled/disabled)
DMX channels	.8/12

MAC 101 CT

DMX channels	.10
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MAC 101 WRM and MAC 101 CLD

DMX channels	.7
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All models

Control protocol	USITT DMX512/1990
Control resolution	8-bit, with 16-bit control of pan & tilt
Setting and addressing	Control panel with backlit graphic display
Transceiver	RS-485
Firmware update	Via DMX with Martin USB Duo DMX Interface

Construction

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

Installation

Mounting points	One M12 threaded hole for rigging clamp
Orientation	Any
Minimum distance to combustible materials	100 mm (3.9 in.) from head, no min. distance from base
Minimum distance to illuminated surfaces	200 mm (7.9 ins.)
Location	For indoor use only, must be fastened to fixed surface or structure

Connections

AC power input	Neutrik PowerCon NAC3MPA input socket (blue)
AC power throughput	Neutrik PowerCon NAC3MPB output socket (grey)
DMX data in/out	5-pin locking XLR

Electrical

AC power	100-240 V nominal, 50/60 Hz
Typical total power consumption	123 W
Power supply unit	Auto-ranging electronic switch mode
Standby power	<25 W

Typical Power and Current

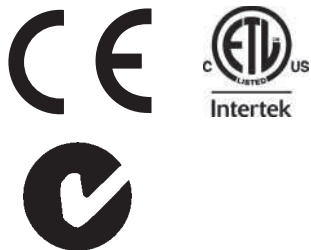
100 V, 50 Hz	122 W, 1.3 A, PF 0.991
120 V, 60 Hz	121 W, 1.1 A, PF 0.987
208 V, 60 Hz	123 W, 0.7 A, PF 0.938
230 V, 50 Hz	123 W, 0.6 A, PF 0.915
240 V, 50 Hz	123 W, 0.6 A, PF 0.900

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%)	420 BTU/hr.

Approvals



EU safety	EN 60598-2-17 (EN 60598-1), EN 62471
EU EMC	EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety	UL 1573
US EMC	FCC Part 15 Class A
Canadian safety	CSA E598-2-17 (CSA E60598-1)
Canadian EMC	ICES-003 Class A
Australia/NZ	C-TICK N4241

Included Items

User manual	P/N 35000246
M12 bolt suitable for use with Martin rigging clamps	

Accessories

Set of 8 x medium-angle diffusers for MAC 101	P/N 91616018
Set of 4 x top hats for MAC 101	P/N 91611358
Set of 5 x quick-mount surface mounting brackets for MAC 101	P/N 91606017
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey	P/N 05342805
G-clamp	P/N 91602003
Half-coupler clamp	P/N 91602005
Quick trigger clamp	P/N 91602007
Safety wire, 50 kg safe work load	P/N 91604003
8-unit flightcase for 8 x MAC 101™	P/N 91515010

Related Items

Martin USB Duo DMX Interface Box™	P/N 90703010
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Ordering Information

MAC 101™ (RGB model) in cardboard box	P/N 90231600
MAC 101™ (RGB model) in 8-unit flightcase	P/N 90231610
MAC 101™ CT in cardboard box	P/N 90231620
MAC 101™ CT in 8-unit flightcase	P/N 90231625
MAC 101™ WRM in cardboard box	P/N 90231650
MAC 101™ WRM in 8-unit flightcase	P/N 90231640
MAC 101™ CLD in cardboard box	P/N 90231670
MAC 101™ CLD in 8-unit flightcase	P/N 90231660

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