

Sometimes a revolution can be simple.



Specifications MAC 101 Preliminary Data

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

Electronic 'color wheel' effect: 33 LEE-referenced colors plus white, color wheel
Electronic 'color wheel' effect: rotation effect, random color
Color mixing: RGB
Red: 0 - 100%
Green: 0 - 100%
Blue: 0 - 100%
Color temperature control: Variable 2500 - 10 000 K
Shutter effect: Electronic, with pulse and random effects
Electronic dimming: 0 - 100%, four dimming curve options
Pan: 540°
Tilt: 240°
Adjustable pan/tilt speed

Optics

Light source: Cree XP-E high power emitters
Minimum LED lifetime: 50 000 hours
(to >70% luminous output)*
**LED manufacturer's figure obtained under manufacturer's test conditions*

Control and Programming

Control options: 3 DMX modes - Calibrated RGB + CTC, Raw RGB + CTC, Basic
Control resolution: 8-bit, with 16-bit control of pan & tilt
DMX channels: 8/12
Setting and addressing: Control panel with backlit graphic display
Protocol: USITT DMX512/1990
Transceiver: RS-485
Fixture software update: Via DMX with Martin Universal USB/DMX Converter

Construction

Color: Black
Housing: High-impact flame-retardant thermoplastic
Protection rating: IP20

Installation

Mounting points: M12 threaded hole for rigging clamp
Orientation: Any
Minimum distance to combustible materials: 100 mm (3.9 in.) from head, no minimum distance from base
Minimum distance to illuminated surfaces: 200 mm (7.9 in.)

Connections

AC power input: Neutrik PowerCon
AC power throughput: Neutrik PowerCon
DMX data in/out: 5-pin locking XLR

Electrical

AC power: 100-240 V nominal, 50/60 Hz
Maximum total power consumption: 123 W
Power supply unit: Auto-ranging electronic switch mode
Main fuse: 5 AT (slow blow)
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 60598-1, EN 60598-2-17, 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: CAN/CSA E60598-1, CAN/CSA E598-2-17
Canadian EMC: ICES-003 Class A
Australia/NZ: C-TICK N4241

Included Items

User manual: P/N 35000246
Note that power cables and Neutrik PowerCon connectors must be ordered separately (see Accessories)

Accessories

3 m (9.8 ft.) power cable, 12 AWG, SJT, with PowerCon NAC3FCA power input connector: P/N 11541503
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
PowerCon daisy-chain power cable, 1.4 m (4.6 ft.): P/N 11850099
PowerCon daisy-chain power cable, 2.25 m (7.4 ft.): P/N 11850100
PowerCon daisy-chain power cable, 3.25 m (10.7 ft.): P/N 11850101
G-clamp: P/N 91602003
Half-coupler clamp: P/N 91602005
Quick trigger clamp: P/N 91602007
Safety wire, universal, safe working load 50 kg (110.2 lbs.): P/N 91604003
8-unit flightcase for 8 x MAC 101: P/N 91515010

Related Items

Martin Universal USB/DMX Interface Box: P/N 90702045

Ordering Information

MAC 101 in cardboard box: P/N 90231600

[ACTUAL SIZE]



MAC 101™

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Martin

Founded in 1987 and headquartered in Aarhus, Denmark, Martin lighting solutions are industry standard on tours and events, theatres, nightclubs, and major television studios around the world, as well as indoor and outdoor architecture and commercial applications. We maintain a presence in the USA, UK, Germany, Denmark, France, Italy and Singapore with associated companies in Japan, the Middle East, Hong Kong and Argentina. We operate the industry's most complete and capable distributor network with local partners in nearly 100 countries. Martin's parent company, Schouw & Co. is an industrial conglomerate with 2009 revenue of approximately 1.5 billion USD. For more information please visit www.martin.com

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Martin

The Martin MAC 101 is a remarkably small and simple LED moving head wash light that pioneers all new possibilities in creative lighting. It features a tight and very bright beam, rapid movement and calibrated colors with a low price tag that allows for revolutionary set, stage and decorative lighting designs.

Utilizing cost-efficient, high-volume production and featuring an ultra-compact design that promotes use in larger quantities, the MAC 101 is ideal for easy-to-produce, high-impact looks like large wall matrices or as a dynamic replacement for static PAR cans.

Even in smaller numbers the MAC 101 is a highly effective and versatile wash light, useful for visual effect in a wide variety of applications like concerts, events, exhibitions, clubs, television studios, bars, restaurants and more.

Video wall of MACs

Imagine pixelmapping video content across a large video wall of MACs – each MAC 101 essentially a pixel in a dynamic graphic.

PAR can replacement

Replace PAR cans with creativity and versatility – color, movement and beam effects that are dynamic instead of ordinary.

Line a stage, truss, or set piece with 101's for more creative looks, or supplant walls of PAR cans for more dynamic washes of color that consume less power. Whatever imaginative look a designer comes up with, the MAC 101 gives greater flexibility when creating organic designs.

Bang for the buck!

With superior power for such a small fixture (2000 lumens) and an exceptional lumen to price ratio, the MAC 101 provides plenty of bang on a tight budget.

Tight and bright

The MAC 101 projects a tight beam with a soft yet defined edge that is surprisingly bright for such a compact, energy-saving fixture. Beam angle is 13.5° with a wide angle diffuser available as an option for greater design possibilities.

Color and effects

A calibrated RGB color mixing system plus color wheel effect provides a full spectrum of color choices. The 101 is capable of smooth dimming from 0-100% and strobe effects such as pulse and random effects are possible.

Super fast

Helped by its small size and exceptionally low weight, the MAC 101 is Martin's fastest moving head ever, enabling it to reposition quickly or even follow a song's beats per minute tempo.

Light 'n' lovable

With an attractive design and weighing in at just 3.7 kg (8.1 lb), the 101 can be rigged virtually anywhere or can easily be hidden away for more discreet looks.

Low power consumption

The MAC 101 consumes a low 125 watts of power (0.6 A @ 230V / 1.2 A @ 110V), saving on energy and eliminating the need to run thick cables for big rigs.

Easy set up

Exceptionally easy to rig, power can be daisy chained between fixtures with PowerCon cables for less cable mess and hassle.

All the benefits of LED

The MAC 101 provides all the benefits of LED technology like greater reliability, less maintenance and increased energy efficiency for a smaller carbon footprint and lower cost of ownership.

Martin quality

Made of durable materials, the MAC 101 meets Martin's high standards for quality and reliability. A no nonsense design with easy-to-access components makes for easy service and maintenance.

Flightcase

For complete protection and convenient transport, the MAC 101 is available in a durable, 8-unit flightcase.

Creative simplicity:

- **Affordable – even smaller budgets can go big**
- **Compact – at 3.7 kg it fits anywhere**
- **Mighty MAC - tight, punchy beam**
- **Calibrated colors – superior uniformity across fixtures**
- **Speedy – Martin's fastest moving head ever**
- **Uncomplicated - simple to use, easy to set up**
- **Versatile - rental and installation**



A calibrated RGB color mixing system provides a full spectrum of color choices with more consistent shades across fixtures. A color wheel function offers even greater flexibility in design.



Surprisingly small, super light, and exceptionally simple to rig (power can easily be daisy chained between fixtures), the MAC 101 can be placed virtually anywhere.