MAC 101

The MAC 101 is a remarkably small, super light and easy-to-use LED moving head wash light with an amazingly bright beam for such a compact luminaire. It features rapid movement and calibrated colors with a low price tag that allows for revolutionary set, stage and decorative lighting design.

Agile RBG LED Wash-Beam light

Color calibrated

2400 lm output

FEATURES

- Agile RBG LED Wash-Beam light

- Color calibrated

- 2400 lm output

- Bright and tight beam (13° field angle)

- Smooth, electronic dimming

- Ultra-compact, low weight design (3.7 kg)

- Rapid movement – the fastest MAC ever

- High efficiency, low power consumption, long lifetime

TECHNICAL 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
Electronic 'color wheel' effect: 33 LEE-referenced colors plus white, color wheel 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°
Pan and tilt speed: Adjustable via onboard control panel and DMX

Control and Programming
Control options: 3 control modes - RGB raw, RGB calibrated, Basic (RGB + CTC disabled)
RDM: Implemented
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-A, ANSI/ESTA E1.20 RDM
Transceiver: RS-485
Fixture software update: Via DMX with Martin™ USB Duo DMX Interface Box

Optics
Light source: Cree XP-E high power emitters
LED refresh rate: 1220 Hz
Minimum LED lifetime: 50 000 hours (to >70% luminous output)*

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

Installation
Mounting points: One M12 threaded hole for rigging clamp
Location: Indoor use only, must be fastened to surface or structure
Orientation: Any
Minimum distance to combustible materials: 100 mm (4.0 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)
Typical power consumption, all effects static, zero light output: <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 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
Canadian EMC: ICES-003 Class A
Australia/NZ: C-TICK N4241

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

Accessories
3 m 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
Set of eight narrow diffusers for MAC 101™: P/N 91616023
Set of eight wide diffusers for MAC 101™: P/N 91616018
Set of 4 top hats for MAC 101™: P/N 91611358
Set of 5 quick-mount surface mounting brackets for MAC 101™: P/N 91606017
G-clamp: P/N 91602003
Quick trigger clamp: P/N 91602007
Safety cable, safe working load 50 kg: P/N 91604003
8-unit flightcase for MAC 101™: P/N 91515010
Half-coupler (tube) clamp: P/N 91602005

Related Items
Martin USB Duo™ DMX Interface Box: P/N 90703010
Martin RDM 5.5 Splitter™: P/N 90758150

Ordering Information
MAC 101™ in cardboard box: P/N 90231600
MAC 101™ in 8-unit flightcase: P/N 90231610
MAC 101™, white finish, in cardboard box: P/N 90231630

ACCESSORIES

1.4m PowerCon power relay cable AWG 12 S
P/N: 11850099

2.25m PowerCon power relay cable AWG 12
P/N: 11850100

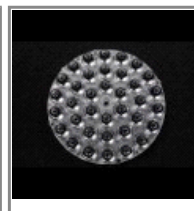**3.25m PowerCon power relay cable AWG 12**
P/N: 11850101

3m pwr.cable w.PwrCon NAC3FCA, AWG12 SJT
P/N: 11541503

4 x Top hats for MAC 101, black
P/N: 91611358
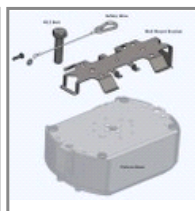

Flightcase for 8 x MAC 101
P/N: 91515010

Front lens for MAC 101
P/N: 41350050

G-Clamp
P/N: 91602003

Half-coupler clamp for Ø50
P/N: 91602005

Installation bracket (5 pcs) for MAC 101
P/N: 91606017

PowerCon NAC3FCA Power Input Connector
P/N: 05342804

Quick-trigger clamp Ø38.1-51mm
P/N: 91602007

Safety wire, 50kg SWL
P/N: 91604003

Set of 8 narrow-angle diffusers for MAC
P/N: 91616023

Set of 8 wide-angle diffusers for MAC 10
P/N: 91616018