

MAC III Performance™

The MAC III Performance is a high-output profile moving head with a new interleaved framing system with full crossover of each blade and industry-first continuous rotation for new and unlimited projection, framing and effects possibilities. It is available as a stand-alone fixture or as an easy-to-swap module that installs in minutes on any MAC III Profile™.



- 1500 W short arc discharge lamp with Lok-it!™ base
- CMY color mixing system
- 7-position color wheel plus open
- Variable CTO
- 5 indexable rotating gobos
- Framing of focused gobo
- Uniform dimming plus mechanical shutter for total blackout
- 1:5 zoom with focus tracking
- Gobo animation wheel with full movement / direction control
- Continuous rotation, full blade crossover framing with uniform focus of each blade
- Motorized iris
- Mechanical and electronic strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
- Patented very low-noise cooling. Quietest fixture in its class
- Modular design for easy maintenance, servicing and product conversion
- Easy conversion between a profile and performance - no need to invest in two separate fixtures
- Electronic ballast, fast lamp re-strike and flicker free light
- Pan and tilt (540°/267°) with absolute positioning control
- RDM ready, service USB and Art-Net II prepared
- Battery powered TFT display and jog wheel navigation

MAC III Performance™ Specifications

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Features

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Physical

- Length (Head): 712 mm (28.0 in.)
- Width: 536 mm (21.1 in.)
- Height: 936 mm (36.9 in.)
- Weight: 56.5 kg (124.6 lbs.)

Lamp

- Type: 1500 W short-arc discharge
- Fitted as standard: Osram HTI 1500W/60/P50 Lok-it
- Color temperature: 6000 K
- CRI (Color rendering index): >85
- Average lifetime: 750 hours
- Hot restrike: Semi-hot (restrike in under 90 seconds)
- Socket: PGJ50
- Ballast: Electronic

Dynamic Effects

- Color mixing: CMY, independently variable 0 - 100%
- Color temperature control: CTO, variable 6000 - 3200 K

Color wheel: 7 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Rotating gobo wheel: Rotating gobo wheel with 5 interchangeable rotating gobos + open, gobo indexing, continuous rotation and shake
Framing: Continuously rotatable framing module with 4 individually controllable blades
Gobo animation: Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Beam effects: Interchangeable frost filter (or rotating interchangeable prism)
Iris: 0 - 100%, pulse effects
Mechanical dimmer: 0 - 100%, choice of four dimming curves
Mechanical shutter: Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Focus: 2 m (6.6 ft.) to infinity
Zoom: 11.5° - 55° (cut-off angle)
Zoom-focus linking system: 3-zone
Pan: 540°
Tilt: 268°
Position correction system: Absolute position monitoring

Control and Programming

DMX channels: 33/40
Setting and addressing: Control panel with backlit graphic display and jog wheel or via DMX
RDM: Implemented
16-bit control: Dimmer, gobo indexing (gobo wheel 1), frame rotation, focus, zoom, pan and tilt
DMX compliance: USITT DMX512-A
RDM compliance: ANSI/ESTA E1.20
Receiver: Opto-isolated RS-485
Firmware update: USB memory device or USB/DMX hardware interface over DMX link

Service Utilities

Fixture identification: User-settable 12-digit ID number

Construction

Color(s): Black
Housing: Magnesium alloy, UV-resistant fiber-reinforced composite
Reflector: Glass, cold light
Protection rating: IP20

Gobos

Size: E
Approved material: Borosilicate 3.3 or better with dichroic or heavy matted aluminum coating (metal gobos not approved)
Outside diameter: 37.5 mm (1.5 in.) +/- 0.2 mm (0.01 in.)
Maximum image diameter: 30 mm (1.2 in.) +/- 0.4 mm (0.02 in.)
Maximum thickness: 1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)

Gobo Animation Wheel

Outside diameter: 133.9 mm (5.3 in.) +/- 0.1 mm (0.004 in.)
Image outer diameter: 130 mm (5.1 in.)
Image inner diameter: 32 mm (1.3 in.)
Thickness: 1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)
Construction: Borofloat or better with dichroic or enhanced aluminum coating

Installation

Mounting points: Eight quarter-turn locking points

Orientation: Any
Minimum distance to illuminated surfaces: 2.5 m (8.2 ft.)
Minimum distance to combustible materials: 0.2 m (0.7 ft.)

Connections

AC power input: Neutrik PowerCon connector with 3 m (9.8 ft.) cable tail
DMX and RDM data in/out: 5-pin locking XLR
Ethernet (Artnet II compatible, ACN-ready): Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB memory devices: USB host socket
Future USB options: USB device socket

Electrical

AC power: 200-240 V nominal, 50/60 Hz
Power supply unit: Auto-ranging electronic switch-mode
Main fuses: 16 AT (x 2)

Typical Power and Current

200 V, 50 Hz: 1801 W, 9.0 A, PF 0.996
200 V, 60 Hz: 1805 W, 9.1 A, PF 0.995
208 V, 60 Hz: 1802 W, 8.8 A, PF 0.994
220 V, 50 Hz: 1788 W, 8.2 A, PF 0.994
230 V, 50 Hz: 1783 W, 7.8 A, PF 0.993
240 V, 50 Hz: 1779 W, 7.5 A, PF 0.989
240 V, 60 Hz: 1786 W, 7.5 A, PF 0.987
Measurements made at nominal voltage. Allow for a deviation of +/- 10%.
PF = power factor

Thermal

Cooling: Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.): 40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C: 170° C (338° F)
Total heat dissipation (calculated, +/- 10% at 200 V, 60 Hz): 6160 BTU/hr.

Approvals



EU safety: EN 60598-1, EN 60598-2-17
EU EMC: EN 55 015, EN 55 103-1, EN 61 547
US safety: ANSI/UL 1573
Canadian safety: CAN/CSA E60598-1, CAN/CSA E598-2-17

Included Items

Lamp (installed)	P/N 97010347
Tribal waves gobo animation wheel (installed)	P/N 62325143
Two Omega clamp attachment brackets with 1/4-turn fasteners	P/N 91602001
User manual	P/N 35000247

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
Philips MSR Gold 1500 Fastfit lamp	P/N 97010340

MAC III Projection Module Kit (converts MAC III Performance to MAC III Profile)	P/N 91614033
Four-facet prism in holder	P/N 62329120
Radial Waves gobo animation wheel	P/N 91611355
Clouds Go By gobo animation wheel	P/N 91611356
Flick It gobo animation wheel	P/N 91611357
Omega clamp attachment bracket with 1/4-turn fasteners	P/N 91602001
T-shaped omega clamp attachment bracket with 1/4-turn fasteners	P/N 91602008
Half-coupler clamp	P/N 91602005
G-clamp (suspension with yoke vertically downwards only)	P/N 91602003
Quick-trigger clamp (suspension with yoke vertically downwards only)	P/N 91602007
Super Truss 20.5" mounting plate with half-couplers	P/N 91602014
Swing-wing truss mounting plate with half-couplers	P/N 91602010
Safety cable, safe working load 70 kg (154.3 lbs.)	P/N 91604004

Related Items

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

Spare Parts

Osram HTI 1500W/60/P50 Lok-it lamp	P/N 97010347
Base air filter, short	P/N 20800220
Base air filter, long	P/N 20800230
Head air filter	P/N 20800240
Main fuse (16 AT)	P/N 05020047

Ordering Information

MAC III™ Performance in cardboard box	P/N 90206200
MAC III™ Performance in single flightcase	P/N 90206210

Shipping Information

In cardboard carton

Shipping dimensions (LxWxH): 530 mm (20.9 in.) x 640 mm (25.2 in.) x 1060 mm (41.7 in.)
Shipping weight: 64 kg (141.1 lbs.)
Quantity on pallet: Four products in single layer
Pallet dimensions (LxWxH): 1200 mm (47.2 in.) x 1000 mm (39.4 in.) x 1320 mm (52.0 in.)
Pallet volume: 1.9 m³
Pallet weight (incl. pallet): 275 kg (606.3 lbs.)

In flightcase

Shipping dimensions (LxWxH): 970 mm (38.2 in.) x 600 mm (23.6 in.) x 930 mm (36.6 in.)
Shipping weight: 104 kg (229.3 lbs.)
Quantity on pallet: Four products in two layers
Pallet dimensions (LxWxH): 1200 mm (47.2 in.) x 1000 mm (39.4 in.) x 1800 mm (70.9 in.)
Pallet volume: 2.2 m³
Pallet weight (incl. pallet): 430 kg (948.0 lbs.)