



The 1500-watt MAC III AirFX is an extremely bright and highly versatile lighting fixture, a new concept that combines hard-edge, mid-air effects and a beautiful wash field in one luminaire. Capable of projecting a dense, hard-edge beam with stunning mid-air aerial effects, the fixture's unique optical system allows it to adjust from a tight beam to a radiant wash instantly for greater design flexibility.

Beam gobo projections can adjust along the entire zoom range for a diverse variety of mid-air looks. Unlike other fixtures, the MAC III AirFX maintains high efficiency throughout the entire zoom range with a fully linear zoom that gives no visible beam jump from tight to wide.

Super bright, the MAC III AirFX is powerful enough to cut through light from even the most powerful LED screens.

- 59,500 lm output
- Beam, mid-air effects and wash luminaire in one
- 10-47° linear zoom with linked focus
- 9 clear, precision PC lens (optional Fresnel)
- CMY color mixing plus color wheel
- Variable CTO
- 4 aerial effects - all rotating and replaceable
- Fade-in frost filter for wash effect
- Iris / Dimmer / Shutter

Physical Length (Head): 712 mm (28.0 in.)
 Width: 536 mm (21.1 in.)
 Height: 936 mm (36.9 in.)
 Weight: 54.9 kg (121.0 lbs.)

Lamp Type: 1500 W discharge
 Approved lamp: Osram Lok-it HTI 1500W/60/P50
 Color temperature: 6000 K
 CRI (Color rendering index): >90
 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 aerial effects: Wheel with 4 interchangeable rotating aerial effects, effect indexing, continuous rotation and shake
 Iris: Variable, pulse effects
 Mechanical dimmer: 0 - 100%, choice of four dimming curves
 Mechanical shutter: Strobe effect, pulse effects, instant open and blackout
 Focus: 2 m (6.6 ft.) to infinity

Zoom: Motorized
 Zoom-focus linking system: Automatic
 Wash effect: Fade in/out
 Pan: 540°
 Tilt: 268°
 Position correction system: Absolute position monitoring

Control and Programming

DMX channels: 22
 Setting and addressing: Control panel with backlit graphic display and jog wheel or via DMX
 RDM: Implemented
 16-bit control: Aerial effect indexing and rotation speed, dimmer, 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

Photometric Data

Total output (max.): 59,500 lm
 Beam angle: 10° - 47°

Construction

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

Installation

Mounting points: Eight quarter-turn locking points
 Orientation: Any
 Minimum distance to illuminated surfaces: 5.8 m (19.0 ft.)
 Minimum distance to combustible materials: 0.2 m (0.7 ft.)

Connections

AC power input: Neutrik PowerCon
 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 (104° F): 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 (pending): ANSI/UL 1573
 Canadian safety (pending): CAN/CSA E60598-1, CAN/CSA E598-2-17

Included Items	Osram Lok-it HT1 1500W/60/P50 discharge lamp: P/N 97010348 Two Omega clamp attachment brackets with 1/4-turn fasteners: P/N 91602001 User manual
Accessories	Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m (9.8 ft.): P/N 11541503 Neutrik PowerCon NAC3FCA power input connector, cable mount, blue: P/N 05342804 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 wire, safe working load 70 kg (154.3 lbs.): P/N 91604004 Flightcase for 1 x MAC III: P/N 91510080
Related Items	Martin USB Duo™ DMX Interface Box: P/N 90703010 Martin RDM 5.5 Splitter™: P/N 90758150
Spare Parts	Base air filter, short: P/N 20800220 Base air filter, long: P/N 20800230 Main fuse (16 AT): P/N 05020047
Ordering Information	MAC III AirFX™ in cardboard box: P/N 90206500 MAC III AirFX™ in single flightcase: P/N 90206510
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 m ³ 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 m ³ Pallet weight (incl. pallet): 430 kg (948.0 lbs.)

Photometric Data

Standard , Zoom at Minimum	Efficiency: 46% Efficacy: 33.5 lumens per watt Cut-off angle: 10.5° Total output: 59600 lm
Standard , Zoom at Median	Efficiency: 43% Efficacy: 31.3 lumens per watt Cut-off angle: 20° Total output: 55700 lm
Standard , Zoom at Maximum	Efficiency: 41% Efficacy: 30 lumens per watt Cut-off angle: 47° Total output: 53400 lm

Published on: 27 Apr 2013. © 2013 Martin Professional A/S. Specifications subject to change without notice