



The MAC III Quadray is a never-before-seen, multiple-beam effect that adds a whole new dimension to the lighting designer toolbox. Available as an easy-to-install front lens replacement kit for any standard MAC III AirFX, the Quadray allows for projection of 1, 2, 3 or 4 individually-controllable rays of light for all-new static or dynamic possibilities in mid-air effects.

It includes an efficient effects engine that allows designers to create a whole new variety of looks that would otherwise be hard, or even impossible, to program via a lighting console. The MAC III Quadray houses the same high-quality feature set as the MAC III AirFX, including a vibrant color mixing system and stunning aerial effects.

Front lens replacement kit - Easy installation on any MAC III AirFX

Unique multi-beam effect

1, 2, 3 or 4 individually-controllable rays of light

Eliminates need to invest in a new fixture

Superior output from a 1500-watt lamp

Linear zoom with linked focus

4 aerial effects - all rotating and replaceable

CMY color mixing plus color wheel

Variable CTO

Fade-in frost filter for wash effect

Iris / Dimmer / Shutter

Physical Length (Head): 712 mm
 Width: 536 mm
 Height: 936 mm
 Weight: 55.3 kg
Dimensions are preliminary and liable to minor changes

Lamp Type: 1500 W discharge
 Approved lamp: Osram HTI 1500W/60/P50 7mm Lok-it
 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 Beam effects: 1 - 4 individually controllable rotating beams
 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
 Pan: 540°
 Tilt: 268°
 Position correction system: Absolute position monitoring
 Dimming: Combined electronic and mechanical 0-100% continuous dimming, choice of four dimming curves
 Mechanical shutter: Strobe effect, pulse effects, instant open and blackout
 Focus: 2 m to infinity
 Zoom: Motorized
 Zoom-focus linking system: Automatic
 Wash effect: Fade in/out

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

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
 Minimum distance to combustible materials: 0.2 m

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
Maximum surface temperature, steady state, Ta=40° C: 170° C
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 Lamp (installed): 97010348
Two Omega clamp attachment brackets with 1/4-turn fasteners: 91602001
User manual:

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

Spare Parts Osram HTI 1500W/60/P50 7mm Lok-it lamp: 97010348
Base air filter, short: 20800220
Base air filter, long: 20800230
Main fuse (16 AT): 05020047

Ordering Information Quadray™ Module for MAC III AirFX™: 91614042

Shipping Information **In cardboard carton**
Shipping dimensions (LxWxH): 530 mm x 640 mm x 1060 mm
Shipping weight: 64 kg
Quantity on pallet: Four products in single layer
Pallet dimensions (LxWxH): 1200 mm x 1000 mm x 1320 mm
Pallet volume: 1.9 m³
Pallet weight (incl. pallet): 275 kg
In flightcase
Shipping dimensions (LxWxH): 970 mm x 600 mm x 930 mm

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