



The MAC Viper 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 Viper 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 Viper Quadray houses the same high-quality feature set as the MAC Viper AirFX, including a vibrant color mixing system and stunning aerial effects, and has inherited the same compact form, impressive speed and superior light quality from a 1000-watt lamp.

- Unique multi-beam effect
- 1, 2, 3 or 4 individually-controllable rays of light
- Front lens replacement kit - easy installation on any MAC Viper AirFX
- Easy conversion back to a standard MAC Viper AirFX
- Eliminates need to invest in a new fixture
- Narrow range zoom
- CMY - vibrant color mixing with a superior palette of colors including true reds, rich ambers, primary green and deep blues
- 7-slot color wheel - fixed colors for added color choice
- Rotating gobo wheel with 5 replaceable designs
- Static gobo wheel with 7 designs
- Linear CTO - Daylight to tungsten CCT control and expansion of the CMY palette
- Dimmer and shutter - combined dimmer/shutter system with intensity effects, instant blackout/open and smooth fades
- Iris - fast and tight iris with adjustable dynamic effects
- Diverse strobe effects

Physical Length (Head): 566 mm (22.3 in.)
 Width: 473 mm (18.6 in.)
 Width (Base): 335 mm (13.2 in.)
 Height (head straight up): 732 mm (28.8 in.)
 Height (maximum): 749 mm (29.5 in.)
 Weight: 36.1 kg (79.6 lbs.)
Dimensions are preliminary and liable to minor changes

Lamp Approved lamp: Osram HTI 1000/PS Lok-it
 Type: 1000 W short-arc discharge
 Color temperature: 6000 K
 CRI (Color rendering index): >85
 Average lifetime: 750 hours
 Socket: PGJX36
 Ballast: Electronic

Dynamic Effects	<p>Beam effects: 1 - 4 individually controllable rotating beams</p> <p>Color mixing: CMY, independently variable 0 - 100%</p> <p>Color temperature control: CTO, variable 6000 - 3200 K</p> <p>Color wheel: 7 interchangeable dichroic filters + open, indexing, continuous rotation, random color</p> <p>Rotating aerial effects: 5 interchangeable rotating aerial effect gobos, wheel and gobo indexing, continuous rotation and shake</p> <p>Static gobo wheel: Interchangeable wheel with 7 integral gobos, wheel indexing and continuous rotation, random gobo</p> <p>Wash effect: Fade in/out</p> <p>Iris: 0 - 100%, pulse effects</p> <p>Mechanical dimmer/shutter: 0 - 100% continuous dimming, variable & random strobe & pulse effects, instant open & blackout</p> <p>Dimming options: Choice of four dimming curves</p> <p>Zoom: Motorized</p> <p>Pan: 540°</p> <p>Tilt: 268°</p> <p>Position correction system: Absolute position monitoring</p>
Control and Programming	<p>DMX channels: 20/28</p> <p>Setting and addressing: Control panel with backlit graphic display and jog wheel or via DMX</p> <p>16-bit control: Dimmer, aerial effect indexing, focus, zoom, pan and tilt</p> <p>DMX compliance: USITT DMX512-A</p> <p>RDM compliance: ANSI/ESTA E1.20</p> <p>Receiver: Opto-isolated RS-485</p> <p>Firmware update: USB memory device or USB/DMX hardware interface over DMX link</p>
Service Utilities	<p>Fixture identification: User-settable fixture ID number</p>
Construction	<p>Color(s): Black</p> <p>Housing: UV-resistant fiber-reinforced composite</p> <p>Reflector: Glass, cold light</p> <p>Protection rating: IP20</p>
Gobos	<p>Size: E27 (Size E, max. image diameter 27 mm)</p> <p>Approved material: Borosilicate 3.3 or better with dichroic or heavy matted aluminum coating (metal gobos not approved)</p> <p>Outside diameter: 37.5 mm (1.5 in.) +0/- 0.2 mm (0.01 in.)</p> <p>Maximum image diameter: 27 mm (1.1 in.)</p> <p>Maximum thickness: 1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)</p>
Installation	<p>Mounting points: Eight quarter-turn locking points</p> <p>Orientation: Any</p> <p>Minimum distance to illuminated surfaces: 3.4 m (11.2 ft.)</p> <p>Minimum distance to combustible materials: 0.3 m (1.0 ft.)</p>
Connections	<p>AC power input: Neutrik PowerCon</p> <p>DMX and RDM data in/out: 5-pin locking XLR</p> <p>USB memory devices: USB host socket</p>
Electrical	<p>AC power: 120-240 V nominal, 50/60 Hz</p> <p>Power supply unit: Auto-ranging electronic switch-mode</p> <p>Typical half-cycle RMS inrush current: 16.2 A</p>
Typical Power and Current	<p>120 V, 60 Hz: 1225 W, 10.3 A, PF 0.999</p> <p>208 V, 60 Hz: 1190 W, 5.8 A, PF 0.996</p> <p>230 V, 50 Hz: 1186 W, 5.2 A, PF 0.994</p> <p>240 V, 50 Hz: 1194 W, 5.0 A, PF 0.993</p> <p><i>Measurements made at nominal voltage. Allow for a deviation of +/- 10%.</i></p> <p><i>PF = power factor</i></p>
Thermal	<p>Cooling: Filtered forced air (temperature-regulated, low noise)</p> <p>Maximum ambient temperature (Ta max.): 40° C (104° F)</p> <p>Minimum ambient temperature (Ta min.): 5° C (41° F)</p> <p>Maximum surface temperature, steady state, Ta=40° C (104° F): 150° C (302° F)</p> <p>Total heat dissipation (calculated, +/- 10% at 120 V, 60 Hz): 4180 BTU/hr</p>
Approvals	



EU safety: EN 60598-2-17 (EN 60598-1), EN 62471
 EU EMC: EN 55015, EN 55103-1, EN 55103-2, EN 61547
 US safety: UL 1573
 US EMC: FCC Part 15 Class A
 Canadian safety: CSA E598-2-17 (CSA E60598-1)
 Canadian EMC: ICES-003 Class A
 Australia/NZ: C-TICK N4241

Included Items	Lamp (installed): P/N 97010346 Two Omega clamp attachment brackets with 1/4-turn fasteners: P/N 91602001 Safety and installation manual
Accessories	Power cable, 12 AWG, 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 Safety cable, safe working load 50 kg (110.2 lbs.): P/N 91604003 Flightcase for 2 x MAC Viper: P/N 91510180
Related Items	Martin USB Duo™ DMX Interface Box: P/N 90703010 Martin RDM 5.5 Splitter™: P/N 90758150
Spare Parts	Osram HTI 1000/PS Lok-it lamp: P/N 97010346 Head air filter
Ordering Information	Quadray™ Module for MAC Viper™: P/N 91614052
Shipping Information	In cardboard carton Shipping dimensions (LxWxH): 580 mm (22.8 in.) x 450 mm (17.7 in.) x 870 mm (34.3 in.) Shipping weight: 39 kg (86.0 lbs.) Quantity on pallet: 8 fixtures Pallet dimensions (LxWxH): 1200 mm (47.2 in.) x 1000 mm (39.4 in.) x 1860 mm (73.2 in.) Pallet weight (incl. pallet): 334 kg (736.3 lbs.) In double flightcase Shipping dimensions (LxWxH): 1200 mm (47.2 in.) x 580 mm (22.8 in.) x 850 mm (33.5 in.) Shipping weight: 70 kg (154.3 lbs.) Quantity on pallet: 4 fixtures Pallet dimensions (LxWxH): 1200 mm (47.2 in.) x 1220 mm (48.0 in.) x 1010 mm (39.8 in.) Pallet weight (incl. pallet): 302 kg (665.8 lbs.)

Photometric Data

Standard (Quadray), Zoom at Minimum	Efficiency: 24% Efficacy: 17.3 lumens per watt Cut-off angle: 12.5° Total output: 20000 lm
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