



Both flexible and efficient, the MAC Viper AirFX is a new concept that combines hard-edge, mid-air effects and a beautiful wash field in one luminaire. Featuring a great selection of all-new gobo designs, hard-edge effects remain stunning across the fixture's entire 11 - 59° zoom range. Capable of snapping or fading into a wash light at any point, a unique and highly efficient optical system means the MAC Viper AirFX can offer the features of a profile at the output of a wash light.

The Viper AirFX has adopted the compact form, impressive speed, superior light quality and beautiful colors that the MAC Viper Profile is renowned for. It is also based on the same 1000-watt lamp for an output that convincingly exceeds any larger, heavier and more power-demanding 1500-watt profile fixture.

- 34500 lumens excellent light quality
- 1:5 zoom - 11 to 59° continuous zoom with auto-linked focus
- 160 mm precision PC front lens for fat beam looks
- Frost - snap or fade-in for beautiful wash effect
- Rotating gobo wheel with 5 replaceable designs
- Static gobo wheel with 7 designs
- 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
- 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: 35.7 kg (78.7 lbs.)

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 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: 5 interchangeable rotating aerial effect gobos, wheel and gobo indexing, continuous rotation and

shake

Static gobo wheel: Interchangeable wheel with 7 integral gobos, wheel indexing and continuous rotation, random gobo

Wash effect: Fade in/out

Iris: 0 - 100%, pulse effects

Mechanical dimmer/shutter: 0 - 100% continuous dimming, variable & random strobe & pulse effects, instant open & blackout

Dimming options: Choice of four dimming curves

Zoom: Motorized

Pan: 540°

Tilt: 268°

Position correction system: Absolute position monitoring

Control and Programming

DMX channels: 20/28

Setting and addressing: Control panel with backlit graphic display and jog wheel or via DMX

16-bit control: Dimmer, aerial effect indexing, 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 fixture ID number

Photometric Data

Max. total output: 34 500 lm

Cutoff angles: 11° - 59°

*Preliminary data***Construction**

Color(s): Black

Housing: UV-resistant fiber-reinforced composite

Reflector: Glass, cold light

Protection rating: IP20

Gobos

Size: E27 (Size E, max. image diameter 27 mm)

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: 27 mm (1.1 in.)

Maximum thickness: 1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)

Installation

Mounting points: Eight quarter-turn locking points

Orientation: Any

Minimum distance to illuminated surfaces: 3.4 m (11.2 ft.)

Minimum distance to combustible materials: 0.3 m (1.0 ft.)

Connections

AC power input: Neutrik PowerCon

DMX and RDM data in/out: 5-pin locking XLR

USB memory devices: USB host socket

Electrical

AC power: 120-240 V nominal, 50/60 Hz

Power supply unit: Auto-ranging electronic switch-mode

Typical half-cycle RMS inrush current: 16.2 A

Typical Power and Current

120 V, 60 Hz: 1225 W, 10.3 A, PF 0.999

208 V, 60 Hz: 1190 W, 5.8 A, PF 0.996

230 V, 50 Hz: 1186 W, 5.2 A, PF 0.994

240 V, 50 Hz: 1194 W, 5.0 A, PF 0.993

*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)

Minimum ambient temperature (Ta min.): 5° C (41° F)

Maximum surface temperature, steady state, Ta=40° C (104° F): 150° C (302° F)

Total heat dissipation (calculated, +/- 10% at 120 V, 60 Hz): 4180 BTU/hr

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	MAC Viper™ AirFX in cardboard box: P/N 90233030 MAC Viper™ AirFX in double flightcase: P/N 90233040
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 , Zoom at Minimum	Efficiency: 41% Efficacy: 29.9 lumens per watt Cut-off angle: 11° Total output: 34600 lm
Standard , Zoom at Maximum	Efficiency: 41% Efficacy: 30.1 lumens per watt Cut-off angle: 58° Total output: 34800 lm