



MAC Viper Performance

The MAC Viper Performance is a full-feature framing fixture that delivers an output and performance never before seen in a fixture this size or one using so little power. Unlike other fixtures in this class, the MAC Viper Performance does not forgo an iris or animation wheel – they are both included along with a framing system and rotating gobos.

The framing system consists of four shutter blades that can all individually adjust $\pm 30^\circ$ while the entire system can rotate $\pm 55^\circ$. The exacting system can repeat each cue with great precision. When fully focused, gobos can be nicely framed with a soft edge. The MAC Viper Performance has adopted the compact form, impressive speed, superior light quality and beautiful colors that the MAC Viper Profile is renowned for and uses the same 1000-watt lamp.

26000 Lumens – Excellent light quality with a very flat and uniform field and 6000K color temperature

1:4 zoom – Fast zoom with auto-linked focus

Four shutter blades individually adjust $\pm 30^\circ$ while the entire system rotates $\pm 55^\circ$. Repeats cues with great precision

FEATURES

- 26000 Lumens – Excellent light quality with a very flat and uniform field and 6000K color temperature
- 1:4 zoom – Fast zoom with auto-linked focus
- Four shutter blades individually adjust $\pm 30^\circ$ while the entire system rotates $\pm 55^\circ$. Repeats cues with great precision
- Large aperture front lens – The 140 mm front lens exceeds the size of any other fixture in this segment for just the right fat beam look
- 5 rotating gobos – All glass gobos with only a slight focal separation to the framing system
- Animation wheel with continuous bi-directional rotation
- CMY – Vibrant color mixing with a superior palette of colors including true reds, rich ambers, primary green and deep blues
- 7-slot color wheel – Static colors and correction filters for added color choice and bump effects
- 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
- Strobe – Diverse strobe effects using mechanical or electronic control or in combination
- Soft frost – A light frost leaves gobo artwork visible with a beautiful soft edge. Includes a linear focus blurring option
- 4-facet prism – Real beam separation with rotation and index control for dynamic effects and accurate tiling

TECHNICAL SPECIFICATIONS

Physical

Length (base): 472 mm (18.6 in.)

Length (head): 566 mm (21.6 in.)

Width: 472 mm (18.6 in.)
Width (base): 335 mm (13.2 in.)
Height (head straight up): 731 mm (28.8 in.)
Height (maximum): 748 mm (29.4 in.)
Weight: 37.9 kg (83.6 lbs.)
Minimum center-to-center distance in side-by-side installation: 650 mm (25.6 in.)

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
Aerial wheel: 5 interchangeable texture/breakup gobos + open, indexing, continuous rotation and shake
Gobo animation: Interchangeable animation wheel, indexing, continuous rotation with variable speed and direction
Framing: Rotatable framing module, +/- 55°, with 4 individually controllable blades
Prism: Interchangeable 4-facet rotating prism
Iris: 0 - 100%
Frost: Variable
Mechanical dimmer/shutter: 0 - 100% continuous dimming, variable & random strobe & pulse effects, instant open & blackout
Dimming options: Choice of four dimming curves
Focus: Range varies with zoom angle, from 2 m / 6 m to infinity (approx.)
Zoom-focus linking system: 3-zone
Zoom: Motorized
Pan: 540°
Tilt: 268°
Position correction system: Absolute position monitoring

Control and Programming

DMX channels: 32/40
Setting and addressing: Control panel with backlit graphic display and jog wheel or via DMX
16-bit control: Dimming, rotating gobos, zoom, focus, 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

Lamp

Type: 1000 W short-arc discharge
Color temperature: 6000 K
CRI (Color rendering index): >85
Average lifetime: 750 hours
Socket: PGJX36
Ballast: Electronic
Approved lamps: Osram Lok-it! 1000/PS Brilliant, Philips MSR Gold MiniFastFit 1000W

Optics

Zoom range: 10-44° (1:4)
Output: 26 000 lm

Service Utilities

Fixture identification: User-settable fixture ID number

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 +0/- 0.2 mm (1.5 +0/- 0.01 in.)
Maximum image diameter: 27 mm (1.1 in.)
Maximum thickness: 1.1 mm +/- 0.1 mm (0.1 in. +/- 0.01 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, at 40° C ambient: 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: P/N 35000258

Accessories

Power cable, 12 AWG, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m (9.9 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 (tube) 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 70 kg (154 lbs.): P/N 91604004
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
Air filter, head, MAC Viper (sold in multiples of 12): P/N 20800270

Ordering Information

MAC Viper™ Performance in cardboard box: P/N 90233100
MAC Viper™ Performance in double flightcase: P/N 90233110

Shipping Information

In cardboard carton:

Shipping dimensions (LxWxH): 580 x 450 x 870 mm (22.9 x 17.8 x 34.3 in.)
Shipping weight: 41 kg (90.4 lbs.)
Quantity on pallet: 8 fixtures
Pallet dimensions (LxWxH): 1200 x 1000 x 1860 mm (47.3 x 39.4 x 73.3 in.)
Pallet weight (incl. pallet): 350 kg (771.7 lbs.)

In double flightcase:

