



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 +/- 30° while the entire system can rotate +/- 55°. 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
- 1:5 zoom Fast zoom with auto-linked focus
- Fat beam 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
- Four shutter blades individually adjust +/- 30° while the entire system rotates +/- 55°. Repeats cues with great precision
- 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 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
- Strobe Diverse strobe effects using mechanical or electronic control or in combination
- Soft 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

**Physical** Length (Head): 566 mm (22.3 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.)

**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  
 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 (6.6 ft.) / 6 m (19.7 ft.) to infinity (approx.)  
 Zoom: 10° - 44°  
 Zoom-focus linking system: 3-zone  
 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

**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 (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: P/N 35000258
  
- 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™ 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 mm (22.8 in.) x 450 mm (17.7 in.) x 870 mm (34.3 in.)
    - Shipping weight: 41 kg (90.4 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): 350 kg (771.6 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: 74 kg (163.1 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): 310 kg (683.4 lbs.)

Photometric Data

**Standard (beamsmoothen removed) , Zoom at Minimum**  
 Efficiency: 28%  
 Efficacy: 20 lumens per watt  
 Cut-off angle: 10°  
 Total output: 23500 lm

**Standard , Zoom at Minimum**  
 Efficiency: 26%  
 Efficacy: 18.8 lumens per watt  
 Cut-off angle: 11°  
 Total output: 22000 lm

**Standard , Zoom at Median**  
 Efficiency: 27%  
 Efficacy: 19.8 lumens per watt  
 Cut-off angle: 21°



Total output: 23300 lm

**Standard (beamsmoothen removed) , Zoom  
at Median**

Efficiency: 30%  
Efficacy: 21.9 lumens per watt  
Cut-off angle: 20°  
Total output: 25700 lm

**Standard (beamsmoothen removed) , Zoom  
at Maximum**

Efficiency: 31%  
Efficacy: 22.1 lumens per watt  
Cut-off angle: 44°  
Total output: 26000 lm

**Standard , Zoom at Maximum**

Efficiency: 28%  
Efficacy: 20.3 lumens per watt  
Cut-off angle: 46°  
Total output: 23800 lm

*Published on: 31 Aug 2014. © 2013-2014 Martin Professional ApS. Specifications subject to change without notice*