

# Specifications

## Physical

Length (base)	472 mm (18.6 in.)
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	37.2 kg (80.0 lbs.)
Minimum center-to-center distance in side-by-side installation	650 mm (25.6 in.)

## Lamp

Type	1000 W short-arc discharge
Approved lamp	Osram HTI 1000/PS Lok-it
Color temperature	6000 K
CRI (Color rendering index)	>85
Average lifetime	750 hours
Socket	PGJ28 Lok-it
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 aerial effect gobos + open, indexing, continuous rotation and shake
Static gobo wheel	7 integral static gobos + open, wheel indexing and continuous rotation, random gobo
Wash effect	Variable fade in/fade out
Iris	0 - 100%, pulse effects
Dimmer/shutter	0 - 100% continuous dimming, regular and random strobe and pulse effects, instant open and 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°
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	Aerial effect gobo rotation and 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

## Construction

Color	Black
Housing	UV-resistant fiber-reinforced composite
Reflector	Glass, cold light
Protection rating	IP20

## Installation

Mounting points	Eight 1/4-turn locking points, octagonal layout
Orientation	Any
Minimum distance from illuminated surface	3.4 m (11.2 ft.)
Minimum distance from combustible materials	0.3 m (12 in.)

## Connections

AC power input	Neutrik PowerCon socket (accepts NAC3FCA connector)
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	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

Maximum ambient temperature ( $T_a$ )	40° C (104° F)
Maximum surface temperature, steady state, $T_a = 40° C$	150° C (302° F)
Cooling	Filtered forced air (temperature-regulated, low noise)
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

Osram HTI 1000/PS Lok-it lamp	P/N 97010346
2 omega clamp attachment brackets with quarter-turn fasteners	2 x P/N 91602001
Safety and Installation Manual	P/N 35000270

## Accessories

Power cable, AWG12, 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 wire, safe working load 50 kg	P/N 91604003
Quadray Module for MAC Viper™	P/N 91614052
Double flightcase for 2 x MAC Viper™	P/N 91510180

## Spare parts

Osram HTI 1000/PS Lok-it lamp	P/N 97010346
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## Related Items

Martin USB Duo™ USB-DMX Interface Box . . . . . P/N 90703010

## Ordering information

MAC Viper AirFX™ in cardboard packing case . . . . . P/N 90233030

MAC Viper AirFX™ in double flightcase . . . . . P/N 90233040

**Specifications subject to change without notice. For the latest product specifications including photometric data, see [www.martin.com](http://www.martin.com)**

### RISK GROUP 3:

**WARNING** IR emitted from this product. Avoid eye exposure. Use appropriate shielding or eye protection. Do not look at operating lamp.

**Caution** Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eyes.

### Photobiological Safety Warning

The label shown on the left is displayed on this product. If it becomes difficult or impossible to read, it must be replaced using the illustration on the left to reproduce a new label.

### FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Canadian Interference-Causing Equipment Regulations - *Règlement sur le Matériel Brouilleur du Canada*

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.  
*Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.*

### Intellectual Property Rights

Martin™ MAC Viper™ products are covered by one or more of these patents:

CN 101430070; CN 101430073; CN 101430076; CN 101430080; CZ 17567U; DK 177371; EP 1234197; EP 2113714; EP 2117284; US 6,687,063; US 7,498,756; US 7,703,948; US 7,789,543; US 7,905,630; US 7,942,535; US 7,990,673;

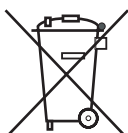
and/or one or more of these patent applications:

CN102713425; CN 201310027943.9; CN 201310046301.3; CN 201310047318.0; CN 2013100473797; EP 2058586; EP 2091302; EP 2136136; EP 2536974; US 2013/0003372; EP 13152755.8; EP 13154154.2; EP 13154159.1; EP 13154160.9; US 13/760,356; US 13/760,429; US 13/760,504; US 13/765,989;

and/or one or more of these designs:

CN 201330073514.6; CN 201330073536.2; CN 201330073543.2; CN 201330073546.6; EU 002107433; US 29/450,522; US 29/450,528; US 29/450524; US 29/450527;

and/or one or more other intellectual property rights, including one or more intellectual property rights listed on [www.martin.com/ipr](http://www.martin.com/ipr)



### Disposing of this product

Martin™ products are supplied in compliance with Directive 2002/96/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), as amended by Directive 2003/108/EC, where applicable.

Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of Martin products.

This product contains a lithium battery. Ensure that it is disposed of correctly and responsibly by an authorized recycling or waste disposal center at the end of its life. Where applicable, Martin participates in schemes whose aim is to ensure that local recycling and/or waste disposal centers accept batteries from Martin products.