

MAC Axiom™ Hybrid



OVERVIEW

The MAC Axiom™ Hybrid is a true all-in-one product, combining beam and spot into one compact unit that also offers diffused wash functionality. The high-precision optical system offers exceptional contrast, both in mid-air and projection as well as a surprisingly flat field, usually not seen with this short-arc lamp technology. The implementation of the MAC Viper CMY color palette gives designers the advantage of unlimited choice from subtle pastel shades to deep and saturated colors. All this comes in a small footprint and lightweight product which delivers superior performance in the best feature vs. size and weight ratio available in the market.



FEATURES

- Zoom: 2-44° (continuous, no Beam/Spot modes)
- 16 000 lumens wide / 14 000 lumens narrow
- 31 000 000 cd high-intensity narrow beam
- Low weight: 24.8 kg / 54.7 lbs.
- Very compact
- Real CMYC color mixing (MAC Viper color palette)
- Independent 16- slot color wheel
- Two gobo wheels (9 rot. & 16 stat.) with super-crisp projection and high contrast on surfaces and in mid-air
- Animation effects integrated into fixed gobo wheel
- Independent 3- and 8-facet prisms with unique patented dynamic 'prism lineator' zoom effect
- Beamsmoother (for flat field projection)
- Frost (for wash effect)
- Backlit LCD onboard display with auto- flip
- PowerCon TRUE1 mains input connector
- 5- pin XLR DMX connectors
- RDM functionality
- 100-240 V operation, 600 W total power





SPECIFICATIONS

PHYSICAL	
Length (base)	399 mm (15.8 ins.)
Width (across yoke)	414 mm (16.3 ins.)
Height (head straight up)	616 mm (24.3 ins.)
Height (maximum)	630 mm (24.9 ins.)
Weight	24.8 kg (54.7 lbs.)
DYNAMIC EFFECTS	
Color mixing	CMYC (MAC Viper color palette), independently variable 0 - 100%
Color wheel	16 dichroic filters + open, indexing, continuous rotation, random color
Rotating gobo wheel	9 interchangeable rotating gobos + open, gobo indexing, continuous rotation and shake
Fixed gobo wheel	16 static gobos + open, gobo animation effect
Prism 1	3-facet rotating prism with dynamic prism zoom effect ("prism linear")
Prim 2	8-facet rotating prism with dynamic prism zoom effect ("prism linear") Frost filter for wash effect Beamsmoother for flat field projection Mechanical dimmer/shutter: 0 - 100% dimming, strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Focus	2 m (6.6 ft.) to infinity
Zoom	2° - 44° continuous (no Beam or Spot modes)
Pan	540°
Tilt	260°
Position correction system	Absolute position monitoring
CONTROL AND PROGRAMMING	
Control system	DMX and RDM
DMX channel	23
Configuration and addressing	Onboard control panel or via DMX
16-bit control	Focus, pan and tilt
Onboard display panel	Backlit LCD with auto-flip
DMX compliance	USITT DMX512-A
RDM compliance	ANSI/ESTA E1.20
Receiver	Isolated RS-485
Firmware update	Windows PC and USB-DMX hardware interface



SPECIFICATIONS

LAMP	
Type	440 W short-arc discharge
Color temperature	7000 K
CRI (Color rendering index)	>80
Average lifetime	1500 hours
Approved lamp	Osram Sirius HRI 440 W
SERVICE UTILITIES	
Fixture identification	User-settable fixture ID number
CONSTRUCTION	
Color(s)	Black
Housing	Alloy, steel, UV-resistant fiber-reinforced composite
Reflector	Glass, cold light
Protection rating	IP20
INSTALLATION	
Mounting points	Four quarter-turn locking points
Orientation	Any
Minimum distance to illuminated surfaces	15 m (49.3 ft.)
Minimum distance to combustible materials	0.2 m (0.7 ft.)
CONNECTIONS	
AC power input	Neutrik PowerCon TRUE1
DMX and RDM data in/out	5-pin locking XLR
ELECTRICAL	
AC power	100-240 V nominal, 50/60 Hz
Typical power consumption	600 W
Power supply unit	Auto-ranging electronic switch-mode
TYPICAL POWER AND CURRENT	
110 V, 60 Hz	5.5 A, 600 W, PF > 0.9 typical
230 V, 50 Hz	2.7 A, 600 W, PF > 0.9 typical
THERMAL	
Cooling	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.)	40° C (104° F)
Maximum surface temperature, steady state, at 40° C ambient	90° C (194° F)
Total heat dissipation (calculated, +/- 10% at 230 V, 50 Hz)	2050 BTU/hr



SPECIFICATIONS

APPROVALS	
EU safety	EN 60598-2-17 (EN 60598-1), EN 62471, EN 62493
EU EMC	EN 55015; EN 55032; EN 55103-1,-2; EN 61000-3-2,-3; EN 61000-4-2, -4, -5; EN 61547
US safety	UL 1573
US EMC	CFR 47 Part 15 Class A
Canadian safety	CSA C22.2 No. 166
Canadian EMC	ICES-003 Class A
Australia/NZ (pending)	RCM
INCLUDED ITEMS	
Two mounting brackets with quarter-turn fasteners	
SIP foam flight case inlay	
ACCESSORIES	
Flightcase (air) for 2 x MAC Axiom Hybrid	P/N 91515037
POWER CABLES	
Power Cable, H07RN-F Neutrik TRUE1-TRUE1 0.45 m (1.5 ft.)	P/N 91611784
Power Cable, H07RN-F Neutrik TRUE1-TRUE1 1.2 m (3.9 ft.)	P/N 91611785
Power Cable, H07RN-F Neutrik TRUE1-TRUE1 2.5 m (8.2 ft.)	P/N 91611796
Power input cable, H07RN-F, 2.5 mm ² , 14 AWG, bare ends to Neutrik TRUE1 NAC3FX- W (female), 1.5 m (4.9 ft.)	P/N 91611797
Power input cable, H07RN-F, 2.5 mm ² , 14 AWG, bare ends to Neutrik TRUE1 NAC3FX- W (female), 5 m (16.4 ft.)	P/N 91611786
POWER CONNECTORS	
Cable Connector, Neutrik PowerCON TRUE1 NAC3MX-W (male)	P/N 91611788
Cable Connector, Neutrik PowerCON TRUE1 NAC3FX-W (female)	P/N 91611789
POWER CONNECTORS	
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
RELATED ITEMS	
Martin M-PC Pro-64 / LJ-4 Controller kit	P/N 90737060
ORDERING INFORMATION	
MAC Axiom™ Hybrid in cardboard box	P/N 90490000