

Specifications

Physical

Length	690 mm (27.2 in.)
Width	536 mm (21.1 in.)
Height (head straight up)	914 mm (36.0 in.)
Weight	53.5 kg (117.9 lbs.)

Lamp

Type	1500 W short arc discharge
Approved lamp	Osram HTI 1500W/60/P50
Color temperature	6000 K
CRI (Color rendering index)	>85
Average lifetime	750 hours
Hot restrike	Semi-hot
Socket	PGJ50
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 gobo wheel	Two rotating gobo wheels, each with 5 interchangeable rotating gobos + open, indexing, continuous gobo rotation, shake
Gobo animation	Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Prism	Interchangeable 4-facet rotating prism
Iris	0 - 100%, pulse effects
Mechanical dimmer	0 - 100%
Mechanical shutter	Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Focus	2 m to infinity
Zoom	11.5° - 55°
Pan	540°
Tilt	268°
Position correction system	Absolute position monitoring

Control and programming

DMX channels	27/30
RDM	Implemented
Setting and addressing	Control panel with backlit graphic display
16-bit control	Dimmer, gobo indexing (gobo wheels 1 and 2), focus, zoom, pan and tilt
Protocol	USITT DMX512-A, ANSI/ESTA E1.20 RDM
Fixture identification	Four-digit user-settable ID number
Receiver	Opto-isolated RS-485
Firmware update	USB memory device or USB/DMX hardware interface

Photometric data

Standard lens, zoom at minimum

Efficiency	22%
One tenth-peak angle	11°
Total output	31500 lm

Standard lens, zoom at median

Efficiency	23%
One tenth-peak angle	32°
Total output	33300 lm

Standard lens, zoom at maximum

Efficiency	23%
One tenth-peak angle	53°
Total output	33800 lm

Measurement source: Osram HTI 1500W/60/P50

Measurement conditions: 227 V, 50 Hz, no effects applied

Construction

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

Gobos

Size	E
Outside diameter	37.5 mm (1.5 in.) +/- 0.2 mm (0.01 in.)
Maximum image diameter	30 mm (1.2 in.) +/- 0.4 mm (0.02 in.)
Maximum thickness	1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)
Recommended glass	Borosilicate 3.3 or better with dichroic or heavy matted aluminum coating

Gobo animation wheel

Outside diameter	133.9 mm (5.3 in.) +/- 0.1 mm (0.004 in.)
Image outer diameter	130 mm (5.1 in.)
Image inner diameter	32 mm (1.3 in.)
Thickness	1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)
Recommended glass	Borosilicate 3.3 or better with dichroic or normal/double mirror aluminum coating

Installation

Mounting points	2 pairs of 1/4-turn locks
Orientation	any
Minimum distance from illuminated surface	2.5 m (100 in.)
Minimum distance from combustible materials	0.2 m (8 in.)

Connections

AC power input	Neutrik PowerCon connector with 3 m (9.8 ft.) cable tail
DMX and RDM data in/out	5-pin locking XLR
Ethernet (Artnet II compatible, ACN-ready)	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB devices (including USB memory storage)	USB host socket
Future USB options	USB device socket

Electrical

AC input	3 m trailing cable w/o cord cap
AC power	200-240 V nominal, 50/60 Hz
Power supply	auto-ranging electronic switch-mode
Main fuse for 200 - 240 V power	16 AT (x 2)

Typical power and current

200 V, 50 Hz	1801 W, 9.0 A, PF 0.996
200 V, 60 Hz	1805 W, 9.1 A, PF 0.995
208 V, 60 Hz	1802 W, 8.8 A, PF 0.994
220 V, 50 Hz	1788 W, 8.2 A, PF 0.994
230 V, 50 Hz	1783 W, 7.8 A, PF 0.993
240 V, 50 Hz	1779 W, 7.5 A, PF 0.989
240 V, 60 Hz	1786 W, 7.5 A, PF 0.987

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, $T_a = 40° C$	170° C (338° F)
Cooling	Filtered forced air (temperature-regulated, low noise)
Total heat dissipation (calculated, +/- 10% at 200 V, 60 Hz)	6160 BTU/hr

Approvals



EU EMC	EN 55 103-1, EN 55 015, EN 61 547
EU safety	EN 60598-2-17
US safety	ANSI/UL 1573
Canadian safety	CSA C22.2 No. 166

Included items

Osram HTI 1500W/60/P50 lamp	P/N 97010326
3 m (9.8 ft.) 12 AWG, SJT power cable with Neutrik PowerCon NAC3FCA cable connector	P/N 11541503
Dichroic color filters	7 (installed)
Gobos	10 (installed)
Tribal waves gobo animation wheel (installed)	P/N 62325143
2 omega clamp attachment brackets with quarter-turn fasteners	2 x P/N 91602001
User manual	P/N 35000214

Accessories

Philips MSR Gold 1500 Fastfit lamp	P/N 97010340
MAC III Framing Module Kit (converts MAC III Profile to MAC III Performance)	P/N 91614032
Hole Lot of Fun gobo animation wheel	P/N 91611354
Radial Waves gobo animation wheel	P/N 91611355
Clouds Go By gobo animation wheel	P/N 91611356
Flick It gobo animation wheel	P/N 91611357
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
Super Truss 20.5" mounting plate with half-couplers	P/N 91602014
Swing-wing truss mounting plate with half-couplers	P/N 91602010
Safety wire, safe working load 70 kg	P/N 91604004
Flightcase for 1 x MAC III	P/N 91510080

Spare parts

Osram HTI 1500W/60/P50 lamp	P/N 97010326
Neutrik PowerCon NAC3FCA cable connector for power cable	P/N 05342804
16 AT (slow blow) fuse	P/N 05020047

Related Items

Martin Universal USB-DMX Interface Box™	P/N 90702045
---	--------------

Ordering information

MAC III Profile in cardboard packing case	P/N 90206000
MAC III Profile in flight case	P/N 90206001

Specifications subject to change without notice. For the latest product specifications, see www.martin.com

Intellectual Property Rights

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

DE 60,009,334; EP 1,234,197; US 6,241,366; US 6,687,063; US 6,601,973; US 6,971,770; US 7,222,997

and/or one or more of these patent applications:

CN 1985125A; CN 200810128720.0; CN 200810128782.1; CN 200810128771.3; CN 200810128776.6; CN 200810131481.4; CN 200810125884.8; CN 200810125883.3; DK PA 2009-00748; EP 1,747,399A1; EP 08103667.5; EP 08103669.1; EP 08103671.7; EP 08103673.3; EP 08103672.5; EP 08103784.8; EP 08103674.1; EP 08158378.3; EP 08104332.5; US 2008/0089066; US 2007/0145937; US 12/058,138; US 12/107,821; US 12/107,827; US 12/107,826; US 12/107,833; US 12/107,837; US 12/112,078; US 12/136,365; US 12/140,494

and/or one or more other intellectual property rights, including one or more intellectual property rights listed on 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 two batteries. Ensure that they are disposed of responsibly by an authorized recycling or waste disposal center at the end of their 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.