

MAC 550 PROFILE SPECIFICATIONS

PHYSICAL

Length	450 mm (17.7 in)
Width	365 mm (14.4 in)
Height	636 mm (25.0 in)
Weight	31 kg (68 lbs)

LAMP

Type	400 W short-arc discharge
Lamp socket	Double-ended SFC 10-4 with key
Approved models	Osram HTI 400 W/D3 Philips MSR 400 SA/DE Gold
Ballast	Electronic 'flicker-free'

DYNAMIC EFFECTS

Lamp power	On/off, hot restrike
Dimmer/shutter	Full-range dimming and variable speed flash, 8- or 16-bit control
Colors	Two 8-position wheels, 8- or 16-bit control
Rotating gobos	6 positions with continuous and indexed rotation, 16-bit control
Static gobos	9 positions, 8-bit control
Gobo animation	Variable rotation angle, indexed and continuous rotation, 8- or 16-bit control
Iris	ca. 2.5 mm - > 25 mm, 8- or 16-bit control
Focus	2 m (6.5 ft.) - infinity, 8- or 16-bit control
Zoom	14° - 30°, 8- or 16-bit control
Pan	540°, 16-bit control
Tilt	246°, 16-bit control

CONTROL AND PROGRAMMING

Protocol	USITT DMX-512 (1990)
Control channels	21 or 27
Setting and addressing	Control panel with LED display, remote w/ MP-2 uploader
Movement control	Tracking and vector
Receiver	Opto-isolated RS-485
Software installation	Serial upload (MUF)

PHOTOMETRICS

Light output	9300 lumens
Beam angle (focused on open gobo)	14° - 30°
Focal length	46 - 100 mm
Measurement source	Osram HTI 400 W/D3

GOBOS

Outside diameter	27.9 +0/-0.3 mm
Maximum image diameter	23 mm
Maximum thickness	1.1 mm in static slots, 4 mm in rotating slots
Recommended glass	High-temperature Borofloat or better with dichroic or enhanced aluminum coating
Recommended metal	0.5 mm aluminum

GOBO ANIMATION WHEELS

Outside diameter	116 mm +0/-0.25 mm
Image outer diameter	112 mm
Image inner diameter	32 mm
Construction	0.5 mm aluminum with magnet

CONSTRUCTION

Housing	UV-resistant fiber-reinforced composite
Colors	black
Protection factor	IP 20

INSTALLATION

Mounting points	2 pairs of 1/4-turn locks, offset 90°
Orientation	Any

THERMAL

Maximum ambient temperature (T_a)	40° C (104° F)
Maximum surface temperature	160° C (320° F)
Total heat dissipation (calculated)	2200 BTU/hr

ELECTRICAL

Operating ranges	100-120/200-240 VAC nominal, 50/60 Hz
Power supply	Semi auto-ranging electronic switch-mode
Main fuse for 200 - 240 V power	T 6.3 A
Main fuse for 100 - 120 V power	T 10 A

CONNECTIONS

AC input	3 m cable tail w/o power plug
Data in/out	Locking 3-pin & 5-pin XLR, pin 1 shield, pin 2 cold (-), pin 3 hot (+)

TYPICAL POWER AND CURRENT*

@ 100 V, 50 Hz	650 W, 6.8 A, PF 0.954
@ 100 V, 60 Hz	640 W, 6.7 A, PF 0.961
@ 120 V, 60 Hz	630 W, 5.5 A, PF 0.956
@ 208 V, 60 Hz	595 W, 3.1 A, PF 0.936
@ 230 V, 50 Hz	595 W, 2.8 A, PF 0.927
@ 240 V, 50 Hz	595 W, 2.7 A, PF 0.923

V = Volts, Hz = Hertz, W = Watts, A = Amps, PF = power factor

**Figures are typical, not maximum. Allow for a deviation of +/- 10%.*

APPROVALS



EU EMC	EN 50 081-1, EN 50 082-1
EU safety	EN 60598-1, EN 60598-2-17
Canadian safety	CSA C22.2 No. 166
US safety	ANSI/UL 1573

INCLUDED ITEMS

Lamp	Osram HTI 400/D3 (installed)
Fuse for use with 200-240 V power	T 6.3 A (installed)
Fuse for use with 100-120 V power	T 10 A
Clamp attachment brackets	2 quarter-turn Omega
Gobo animation wheel	Radial breakup (installed)
Color filters	16 (installed)
Gobos	13 aluminum, 2 glass (installed)

ACCESSORIES

Spiral breakup animation wheel	P/N 62325049
Linear breakup animation wheel	P/N 62325050
Coarse tangential animation wheel	P/N 62325051
Half-coupler clamp	P/N 91602005
G-clamp	P/N 91602003
MP-2 Uploader	P/N 90758420
MAC 500-size stock gobos	See http://www.martin.com

ORDERING INFORMATION

MAC 550 Profile in cardboard packing case	P/N 90217000
MAC 550 Profile in flight case	P/N 90217010

Specifications subject to change without notice