

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)

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

SOURCE

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

THERMAL

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

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

ELECTRICAL

AC input	3 m trailing cable w/o cord cap
Operating ranges	100-120/200-240 VAC, 50/60 Hz
Power supply	semi auto-ranging electronic switch-mode
Main fuse for 200 - 240 V	T 6.3 A
Main fuse for 100 - 120 V	T 10 A

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
@ 250 V, 50 Hz	595 W, 2.6 A, PF 0.921

V = volts, Hz = hertz, W = watts, A = amps, PF = power factor

**Note: Allow for a deviation of +/- 10% from typical figures listed. Measurements made at nominal voltage. Local supply voltages can vary by +/- 10%.*

CONTROL AND PROGRAMMING

Protocol	USITT DMX-512
Control channels	21 or 27
Receiver	Opto-isolated RS-485
Data I/O	locking 3-pin & 5-pin XLR, pin 1 shield, pin 2 cold (-), pin 3 hot (+)
Setting and addressing	LED control panel, remote w/ MP-2 uploader
Movement control	tracking and vector
Software installation	serial upload (MUF)

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

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

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 www.martin.com

ORDERING INFORMATION

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