

# SPECIFICATIONS

## MAC 2000 PERFORMANCE II

### PHYSICAL

Length:	408 mm (16.0 in)
Width:	490 mm (19.3 in)
Height:	743 mm (29.3 in)
Weight:	39.5 kg (87 lbs)

### SOURCE

Lamp:	1200 W short arc discharge
Base:	Double-ended SFc 10-4 with key
Approved models:	Philips MSR 1200 SA/DE Gold (installed), Osram HMI 1200 W/S Short-Arc
Control:	automatic and remote, hot re-strike
Ballast:	electronic
Low voltage power supply:	electronic auto-ranging, or manually set

### THERMAL

Maximum ambient temperature (Ta):	40° C (104° F)
Maximum surface temperature:	140° C (284° F)
Total heat dissipation:	ca. 5120 Btu/hr

### PHOTOMETRICS

Light output:	23000 lumens
Beam angle (focused on open gobo):	12° - 29°
Focal length:	.58 - 143 mm
Measurement source:	Osram HMI 1200 W/S

### ELECTRICAL

AC input:	3 m trailing cable w/o cord cap
Operating ranges:	100-130/200-260 V, 50/60 Hz
Ballast:	electronic
Power supply:	auto-ranging
Main fuses (x 2 - when local AC supply is 208 - 250 V):	15 A
Main fuses (x 2 - when local AC supply is 100 - 120 V):	T 20 A
Fuse F101:	T 6.3 A
Fuse F102:	T 10 A
Fuse F103:	T 3.15 A
Fuse F104:	T 3.15 A

### MAXIMUM POWER AND CURRENT

100 V, 50 Hz:	1590 W, 19.8 A
100 V, 60 Hz:	1560 W, 19.3 A
120 V, 50 Hz:	1560 W, 16.8 A
120 V, 60 Hz:	1540 W, 16.3 A
208 V, 50 Hz:	1470 W, 10.5 A
208 V, 60 Hz:	1470 W, 10.3 A
230 V, 50 Hz:	1480 W, 9.6 A
230 V, 60 Hz:	1470 W, 9.4 A
250 V, 50 Hz:	1480 W, 8.6 A
250 V, 60 Hz:	1480 W, 8.5 A

Figures are valid at nominal voltage. Allow for +/- 10% variation.

## GOBOS

Outside diameter: . . . . . 37.5 +0/-0.3 mm (1.48 +0/-0.01 in.)  
Image diameter: . . . . . 30 mm (1.18 in.)  
Thickness: . . . . . 1.1 mm in static slots, up to 7 mm in rotating slots  
Material: . . . . . high-temperature Borofloat or better glass  
Coating: . . . . . dichroic or enhanced aluminum

## GOBO ANIMATION WHEELS

Outside diameter: . . . . . 133 mm +0/-0.25 mm  
Image outer diameter: . . . . . 130 mm (5.12 in)  
Image inner diameter: . . . . . 16 mm (0.63 in)  
Thickness: . . . . . 0.5 mm (0.02 in)  
Construction: . . . . . Aluminium

## CONTROL AND PROGRAMMING

Protocol: . . . . . USITT DMX-512  
Control channels: . . . . . 28 or 31  
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  
Pan/tilt resolution: . . . . . 8- or 16-bit  
Gobo indexing: . . . . . 8- or 16-bit  
Movement control: . . . . . tracking and vector  
Software installation: . . . . . serial upload (MUF)

## ELECTROMECHANICAL EFFECTS

Cyan: . . . . . 0 - 100%  
Magenta: . . . . . 0 - 100%  
Yellow: . . . . . 0 - 100%  
Color correction: . . . . . 0 - 178 mireds  
Gobo animation wheel: . . . . . Animation effects at any angle  
Gobo wheel: . . . . . 5 rotating and indexable slots  
Four-blade framing system: . . . . . Blade tilting +/- 31°, frame rotation +/- 45°  
Effect wheel: . . . . . wide-angle converter lens, non-rotating 9-facet prism, variable frost  
Iris: . . . . . motorized  
Dimmer/shutter: . . . . . full range dimming and variable speed flash  
Focus: . . . . . 2 m (6.5 ft.) - infinity  
Zoom: . . . . . 10° - 28°  
Pan: . . . . . 540°  
Tilt: . . . . . 267°

## DESIGN STANDARDS

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

## CONSTRUCTION

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

## INSTALLATION

Mounting points: . . . . . 8 pairs of 1/4-turn locks, offset 45°  
Orientation: . . . . . any

## ORDERING INFORMATION

MAC 2000 Performance II in cardboard carton: . . . . . P/N 90205465  
MAC 2000 Performance II in 1-unit flight case: . . . . . P/N 90205460  
Two MAC 2000 Performance IIs in 2-unit flight case: . . . . . P/N 90205450

**INCLUDED ITEMS**

2 x Omega bracket, 1/4-turn	
User manual: . . . . .	P/N 35000103
Realistic stars gobo (E size): . . . . .	P/N 43036008
Cloud gobo (E size): . . . . .	P/N 43036008
Radial breakup gobo animation wheel (installed): . . . . .	P/N 62400211
Cloud breakup animation wheel: . . . . .	P/N 62400213
Dot breakup animation wheel: . . . . .	P/N 62400214
Tangential breakup animation wheel: . . . . .	P/N 62400215
Spiral breakup animation wheel: . . . . .	P/N 62400216

**ACCESSORIES**

Wide-angle lens kit . . . . .	P/N 91610020
Linear breakup gobo animation wheel . . . . .	P/N 62400223
Triangle break gobo animation wheel . . . . .	P/N 62400225
Elliptical breakup gobo animation wheel . . . . .	P/N 62400221
Flicker wheel gobo animation wheel . . . . .	P/N 62400222
Coarse radial breakup gobo animation wheel. . . . .	P/N 62400224
Coarse tangential breakup gobo animation wheel . . . . .	P/N 62400226
MP-2 Uploader: . . . . .	P/N 90758420
G-clamp: . . . . .	P/N 91602003
Half-coupler clamp . . . . .	P/N 91602005
“The Wife” DMX Tester. . . . .	P/N 91611038
Philips MSR 1200 SA/DE Gold lamp . . . . .	P/N 97010310
OSRAM HMI 1200 W/S lamp . . . . .	P/N 97010304