

The smartMAC is a 150 W moving head profile that outperforms many of its 250 W rivals and offers unprecedented reliability, longer service intervals, total silence and smaller power bills.

- 150 W discharge lamp
- 8 interchangeable color filters plus open
- 6 indexable rotating gobos plus open
- Motorized focus
- Fadeable, strobe effect up to 9 Hz, pulse effects, instant open and blackout
- Pan and tilt range of 540°/257°
- No fan - silent operation
- Mounting points are 2 pairs of 1/4 turn locks
- Modular design for easy maintenance and servicing

**Physical** Length: 387 mm (15.2 in.) including handles  
Width: 352 mm (13.9 in.)  
Height: 454 mm (17.9 in.), head horizontal  
Height: 448 mm (17.6 in.), head straight up  
Weight: 21 kg (46.3 lbs.)

**Lamp** Type: 150 W discharge  
Fitted as standard: Philips MSD 150/2  
Color temperature: 8500 K  
CRI (Color rendering index): 70  
Average lifetime: 3000 hours (9000 hours with CDM SA/T lamp)  
Hot restrike: No  
Socket: G12  
Ballast: Magnetic  
Approved alternative lamp(s): Philips CDM-SA/T 150


**Dynamic Effects** Color wheel: 8 interchangeable dichroic filters + open, full and split colors, music trig, continuous rotation, random color  
Rotating gobo wheel: 6 interchangeable gobos + open, indexing, continuous gobo rotation & scrolling, shake  
Shutter: Fadeable, strobe effect up to 9 Hz, pulse effects, instant open and blackout  
Focus: 2 m (6.6 ft.) to infinity  
Pan: 600°  
Tilt: 257°

**Optics** Beam angle: Standard lens with diffuser 25° (24° without diffuser), cut-off angles

**Control and Programming** Control options: DMX, stand-alone, synchronized (master/slave)  
DMX channels: 12/15  
Setting and addressing: Control panel with LED display  
Macro programs: 10 pan/tilt and 10 effects macros, all with staggered start/chase feature  
Macro selection: DMX or onboard control panel  
Movement control options: Tracking and vector  
16-bit control: Rotating gobo indexing, pan & tilt  
Protocol: USITT DMX512/1990  
Stand-alone and master/slave programming: Control panel with LED display  
Stand-alone memory: 100 scenes  
Receiver: RS-485  
Firmware update: Serial upload via DMX link

**Construction** Color(s): Black or white  
Housing: UV-resistant fiber-reinforced composite and die-cast aluminum  
Reflector: Glass, cold light  
Protection rating: IP20

**Gobos** Outside diameter: 27.9 mm (1.1 in.) +/- 0.3 mm (0.01 in.)  
Maximum image diameter: 23 mm (0.9 in.)  
Maximum thickness: 1.8 mm (0.1 in.)  
Recommended glass: High-temperature Borofloat or better with dichroic or enhanced aluminum coating  
Recommended metal: Aluminum (steel for temporary use only)

<b>Installation</b>	<p>Mounting points: Quick release mounting bracket or 2 pairs of 1/4-turn locks</p> <p>Orientation: Any</p> <p>Minimum distance to illuminated surfaces: 250 mm (9.8 in.)</p> <p>Minimum distance to combustible materials: 100 mm (3.9 in.) from head, no minimum distance from base</p>
<b>Connections</b>	<p>AC power input: 3-pin IEC</p> <p>DMX data in/out: 3-pin and 5-pin locking XLR</p>
<b>Electrical</b>	<p>AC power: 100-240 V nominal, 50/60 Hz</p> <p>Power supply unit: User-reconfigurable voltage and frequency settings</p> <p>Main fuse: 4 AT (slow blow)</p>
<b>Typical Power and Current</b>	<p>100 V, 50 Hz: 229 W, 2.4 A, PF 0.967</p> <p>100 V, 60 Hz: 226 W, 2.3 A, PF 0.980</p> <p>120 V, 60 Hz: 230 W, 2.2 A, PF 0.897</p> <p>208 V, 60 Hz: 209 W, 1.1 A, PF 0.947</p> <p>230 V, 50 Hz: 216 W, 1.0 A, PF 0.951</p> <p>240 V, 50 Hz: 215 W, 1.0 A, PF 0.937</p> <p><i>Measurements made at nominal voltage. Allow for a deviation of +/- 10%.</i></p>
<b>Thermal</b>	<p>Cooling: Convection</p> <p>Maximum ambient temperature (Ta max.): 40° C (104° F)</p> <p>Maximum surface temperature, steady state, Ta=40° C (104° F): 120° C (248° F)</p> <p>Total heat dissipation (calculated, +/- 10%): 785 BTU/hr.</p>
<b>Acoustic</b>	<p>Sound power level: 27.5 dBA, steady state, lamp on, effects static, Ta=20°C (68° F), test conditions ISO 3743-2:1994</p>
<b>Approvals</b>	<div style="text-align: center;">  </div> <p>EU safety: EN 60598-1, EN 60598-2-17</p> <p>EU EMC: EN 55015, EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3</p> <p>US safety: ANSI/UL 1573</p> <p>Canadian safety: CAN/CSA E 60598-2-17</p>
<b>Included Items</b>	<p>Philips MSD 150/2 lamp (installed): P/N 97010117</p> <p>Diffusion filter (installed): P/N 41600062</p> <p>Quick release mounting bracket, smartMAC: P/N 62406107</p> <p>3 m (9.8 ft.) power cable, 3-pin angled IEC: P/N 11501029</p> <p>User manual: P/N 35000208</p>
<b>Accessories</b>	<p>Philips CDM-SA/T 150 W lamp: P/N 97010111</p> <p>Wash lens kit, black: P/N 91610034</p> <p>Wash lens kit, white: P/N 91610035</p> <p>G-clamp: P/N 91602003</p> <p>Half-coupler clamp: P/N 91602005</p> <p>Quick trigger clamp: P/N 91602007</p> <p>Omega bracket: P/N 91602001</p> <p>T-shaped omega bracket with quarter-turn fasteners: P/N 91602008</p> <p>Quick-release mounting bracket, smartMAC: P/N 62406107</p> <p>Safety wire, universal, safe working load 50 kg (110.2 lbs.): P/N 91604003</p> <p>smartMAC flightcase, holds two fixtures: P/N 91510100</p>
<b>Spare Parts</b>	<p>Philips MSD 150/2 lamp: P/N 97010117</p> <p>4 AT main fuse: P/N 05020014</p> <p>Diffusion filter: P/N 41600062</p>
<b>Ordering Information</b>	<p>smartMAC, black, in cardboard box, includes quick-release mounting bracket: P/N 90231040</p> <p>smartMAC, white, in cardboard box, includes quick-release mounting bracket: P/N 90231041</p>

## Photometric Data

<b>Philips MSD 150/2 , Standard</b>	Efficiency: 44% Efficacy: 21 lumens per watt Half-peak angle: 5.5° Total output: 4600 lm
<b>Philips MSD 150/2 , Standard (with diffuser)</b>	Efficiency: 37% Efficacy: 18 lumens per watt Half-peak angle: 8.5° Total output: 3900 lm
<b>Philips MSD 150/2 , Standard (with diffuser + Wash lens)</b>	Efficiency: 36% Efficacy: 17 lumens per watt One-tenth peak angle: 24° Total output: 3800 lm
<b>Philips CDM-SA/T 150/942 , Standard</b>	Efficiency: 31% Efficacy: 20 lumens per watt Half-peak angle: 11° Total output: 4400 lm
<b>Philips CDM-SA/T 150/942, Standard (with diffuser)</b>	Efficiency: 27% Efficacy: 16.8 lumens per watt Half-peak angle: 12.5° Total output: 3700 lm
<b>Philips CDM-SA/T 150/942, Standard (with diffuser + Wash lens)</b>	Efficiency: 28% Efficacy: 17 lumens per watt One-tenth peak angle: 27° Total output: 3900 lm

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