

The MAC 700 Profile is a compact, powerful fixture with an output and optical precision beyond its peers. It combines a full CMY color mixing system with an 8 position color wheel and a gobo animation system for dramatic projection effects. It also features an iris, fixed gobos, rotating gobos and zoom system.

- 700 W short arc discharge lamp
- CMY color mixing system
- 8 position color wheel plus open
- 9 static gobos plus open
- 6 indexable rotating gobos plus open
- Motorized zoom and focus
- Mechanical dimming
- Gobo animation wheel with full movement / direction control
- Interchangeable 3-facet rotating prism
- Motorized iris
- Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
- Pan and tilt range of 540°/246°
- Variable fan control for quieter operation
- Modular design for easy maintenance and servicing
- Electronic ballast with hot lamp restrike and flicker free light


**Physical** Length: 450 mm (17.7 in.)  
Width: 365 mm (14.4 in.)  
Height: 636 mm (25.0 in.), head straight up  
Weight: 34.5 kg (76.1 lbs.)

**Lamp** Type: 700 W short-arc discharge  
Fitted as standard: Osram HTI 700/D4/75  
Color temperature: 7500 K  
CRI (Color rendering index): >85  
Average lifetime: 750 hours  
Hot restrike: Yes  
Socket: Double-ended SFc 10-4 with key  
Ballast: Electronic  
Approved alternative lamp(s): Philips MSR Gold 700 SA/2 DE

**Dynamic Effects** Color mixing: CMY, independently variable 0 - 100%  
Color wheel: 8 interchangeable dichroic filters (6 colors and 2 CTC) + open, indexing, continuous rotation, random color  
Rotating gobo wheel: 6 interchangeable gobos + open, indexing, continuous gobo rotation & scrolling, shake  
Static gobo wheel: 9 interchangeable gobos + open, indexing, continuous rotation, random gobo  
Gobo animation: Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction  
Prism: Interchangeable 3-facet rotating prism  
Iris: 0 - 100%, pulse effects  
Mechanical dimmer: 0 - 100%  
Shutter: Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout  
Focus: 2 m (6.6 ft.) to infinity  
Zoom: 16° - 30°, cut-off angles, with diffuser installed  
Pan: 540°  
Tilt: 246°

**Control and Programming** DMX channels: 23/31  
Setting and addressing: Control panel with LED display  
16-bit control: CMY, color wheel, rotating gobos, gobo animation, mechanical dimmer, focus, zoom, pan & tilt  
Movement control options: Tracking and vector  
Protocol: USITT DMX512/1990  
Receiver: Opto-isolated RS-485  
Firmware update: Serial upload via DMX link

**Construction** Color(s): Black  
Housing: UV-resistant fiber-reinforced composite  
Reflector: Glass, cold light  
Protection rating: IP20

<b>Gobos</b>	<p>Outside diameter: 27.9 mm (1.1 in.) +/- 0.3 mm (0.01 in.)</p> <p>Maximum image diameter: 23 mm (0.9 in.)</p> <p>Maximum thickness: 1.1 mm (0.04 in.) in static slots, 4 mm (0.2 in.) in rotating slots</p> <p>Recommended glass: High-temperature Borofloat or better with dichroic or enhanced aluminum coating</p> <p>Recommended metal: 0.5 mm (0.02 in.) aluminum</p>
<b>Gobo Animation Wheel</b>	<p>Outside diameter: 116 mm (4.6 in.) +/- 0.25 mm (0.01 in.)</p> <p>Image outer diameter: 112 mm (4.4 in.)</p> <p>Image inner diameter: 32 mm (1.3 in.)</p> <p>Construction: 0.5 mm (0.02 in.) aluminum, magnetic mounting</p>
<b>Installation</b>	<p>Mounting points: 2 pairs of 1/4-turn locks</p> <p>Orientation: Any</p>
<b>Connections</b>	<p>AC power input: 3 m (9.8 ft.) integral cable without power plug</p> <p>DMX data in/out: 3-pin and 5-pin locking XLR</p>
<b>Electrical</b>	<p>AC power: 100-120/208-240 V nominal, 50/60 Hz</p> <p>Power supply unit: Auto-ranging electronic switch-mode</p> <p>Main fuse (100-120 V power): 15 AT (slow blow)</p> <p>Main fuse (208-240 V power): 10 AT (slow blow)</p>
<b>Typical Power and Current</b>	<p>100 V, 60 Hz: 1019 W, 10.3 A, PF 0.996</p> <p>110 V, 60 Hz: 977 W, 9.0 A, PF 0.995</p> <p>120 V, 60 Hz: 988 W, 8.3 A, PF 0.995</p> <p>208 V, 60 Hz: 949 W, 4.7 A, PF 0.976</p> <p>230 V, 50 Hz: 944 W, 4.2 A, PF 0.973</p> <p>240 V, 50 Hz: 940 W, 4.0 A, PF 0.970</p> <p>250 V, 50 Hz: 940 W, 3.9 A, PF 0.966</p> <p><i>Measurements made at nominal voltage. Allow for a deviation of +/- 10%.</i></p>
<b>Thermal</b>	<p>Cooling: Filtered forced air (temperature-regulated, low noise)</p> <p>Maximum ambient temperature (Ta max.): 40° C (104° F)</p> <p>Maximum surface temperature, steady state, Ta=40° C (104° F): 160° C (320° F)</p> <p>Total heat dissipation (calculated, +/- 10% at 110 V, 60 Hz / 230 V, 50 Hz): 3340 / 3190 BTU/hr.</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 55 015, EN 55 103-1, EN 61 547</p> <p>US safety: ANSI/UL 1573</p> <p>Canadian safety: CSA C22.2 No. 166</p>
<b>Included Items</b>	<p>Osram HTI 700/D4/75 lamp (installed): P/N 97010212</p> <p>Radial breakup gobo animation wheel (installed): P/N 62325048</p> <p>5 extra metal gobos and extra spring</p> <p>10 AT main fuse (installed): P/N 05020025</p> <p>15 AT main fuse: P/N 05020027</p> <p>Two Omega clamp attachment brackets with 1/4-turn fasteners: P/N 91602001</p> <p>User manual: P/N 35000137</p>
<b>Accessories</b>	<p>Philips MSR Gold 700 SA/2 DE lamp: P/N 97010312</p> <p>GE CSR700/S/DE/60 lamp: P/N 97010240</p> <p>Spiral breakup gobo animation wheel: P/N 62325049</p> <p>Linear breakup gobo animation wheel: P/N 62325050</p> <p>Coarse tangential gobo animation wheel: P/N 62325051</p> <p>Cloud breakup gobo animation wheel: P/N 62325094</p> <p>Elliptical breakup gobo animation wheel: P/N 62325095</p> <p>Wash filter for MAC 700 Profile: P/N 91614028</p> <p>G-clamp: P/N 91602003</p> <p>Half-coupler clamp: P/N 91602005</p>

Quick trigger clamp: P/N 91602007

T-shaped omega bracket with quarter-turn fasteners: P/N 91602008

Double flightcase, MAC 550 Profile, MAC 700 Wash, MAC 700 Profile: P/N 91510020

**Related Items** Martin Universal USB/DMX Interface Box: P/N 90702045

**Spare Parts** Osram HTI 700/D4/75 lamp: P/N 97010212  
Air filter (head, side): P/N 20800170  
6.3 AT main fuse: P/N 05020020  
15 AT main fuse: P/N 05020027

**Ordering Information** MAC 700 Profile in cardboard box: P/N 90207000  
MAC 700 Profile in double flightcase: P/N 90207001

## Photometric Data

<b>Standard , Zoom at Minimum</b>	Efficiency: 27% Efficacy: 15 lumens per watt Half-peak angle: 11° Total output: 14300 lm
<b>Standard , Zoom at Median</b>	Efficiency: 27% Efficacy: 16 lumens per watt Half-peak angle: 13.5° Total output: 14600 lm
<b>Standard , Zoom at Maximum</b>	Efficiency: 27% Efficacy: 16 lumens per watt Half-peak angle: 19° Total output: 14700 lm
<b>Without diffuser, Standard , Zoom at Minimum</b>	Efficiency: 30% Efficacy: 17 lumens per watt Half-peak angle: 11° Total output: 16200 lm
<b>Without diffuser, Standard , Zoom at Median</b>	Efficiency: 31% Efficacy: 18 lumens per watt Half-peak angle: 13.5° Total output: 16500 lm
<b>Without diffuser, Standard , Zoom at Maximum</b>	Efficiency: 31% Efficacy: 18 lumens per watt Half-peak angle: 19° Total output: 16700 lm

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