

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
- Motorized zoom and focus
- Mechanical dimming
- Gobo animation wheel with full movement / direction control
- 9 static and 6 indexable rotating gobos plus open
- 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

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| Gobos | <p>Outside diameter: 27.9 mm (1.1 in.) +0/- 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> |
| Gobo Animation Wheel | <p>Outside diameter: 116 mm (4.6 in.) +0/- 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> |
| Installation | <p>Mounting points: 2 pairs of 1/4-turn locks</p> <p>Orientation: Any</p> |
| Connections | <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> |
| Electrical | <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> |
| Thermal | <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> |
| Approvals |  <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> |
| Included Items | <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> |
| Accessories | <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> <p>Quick trigger clamp: P/N 91602007</p> <p>T-shaped omega bracket with quarter-turn fasteners: P/N 91602008</p> <p>Double flightcase, MAC 550 Profile, MAC 700 Wash, MAC 700 Profile: P/N 91510020</p> |
| Ordering Information | <p>MAC 700 Profile in cardboard box: P/N 90207000</p> <p>MAC 700 Profile in double flightcase: P/N 90207001</p> |

Photometric Data

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

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