



# MAC 700 Profile

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 patented gobo animation system for subtle or dramatic effects. It also features rotating gobos, fixed gobos, iris, zoom system and rotating prism.

## FEATURES

- 700 W short arc discharge lamp
- Total output up to 14700 lumens
- CMY color mixing system
- 8 position color wheel plus open
- Gobo animation wheel with full movement / direction control
- Interchangeable 3-facet rotating prism
- Motorized iris
- Rapid strobe effects (up to 10 Hz)
- Motorized zoom and focus
- Mechanical dimming
- Pan and tilt range of 540°/246°
- Electronic ballast with hot lamp restrike and flicker free light
- Variable fan control for quieter operation
- 9 static gobos plus open
- 6 indexable rotating gobos plus open

## TECHNICAL SPECIFICATIONS

### Physical

Length: 450 mm  
Width: 365 mm  
Height: 636 mm, head straight up  
Weight: 34.5 kg

### 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 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

#### 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

#### Construction

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

#### Gobos

Outside diameter: 27.9 mm +/- 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 Wheel

Outside diameter: 116 mm +/- 0.25 mm  
Image outer diameter: 112 mm  
Image inner diameter: 32 mm  
Construction: 0.5 mm aluminum, magnetic mounting

#### Installation

Mounting points: 2 pairs of 1/4-turn locks  
Orientation: Any

#### Connections

AC power input: 3 m integral cable without power plug  
DMX data in/out: 3-pin and 5-pin locking XLR

#### Electrical

AC power: 100-120/208-240 V nominal, 50/60 Hz  
Power supply unit: Auto-ranging electronic switch-mode  
Main fuse (100-120 V power): 15 AT (slow blow)  
Main fuse (208-240 V power): 10 AT (slow blow)

#### Typical Power and Current

100 V, 60 Hz: 1019 W, 10.3 A, PF 0.996  
110 V, 60 Hz: 977 W, 9.0 A, PF 0.995  
120 V, 60 Hz: 988 W, 8.3 A, PF 0.995  
208 V, 60 Hz: 949 W, 4.7 A, PF 0.976  
230 V, 50 Hz: 944 W, 4.2 A, PF 0.973  
240 V, 50 Hz: 940 W, 4.0 A, PF 0.970  
250 V, 50 Hz: 940 W, 3.9 A, PF 0.966

*Measurements made at nominal voltage. Allow for a deviation of +/- 10%.*

#### Thermal

Cooling: Filtered forced air (temperature-regulated, low noise)  
Maximum ambient temperature (Ta max.): 40° C  
Maximum surface temperature, steady state, Ta=40° C: 160° C  
Total heat dissipation (calculated, +/- 10% at 110 V, 60 Hz / 230 V, 50 Hz): 3340 / 3190 BTU/hr.

#### Approvals

EU safety: EN 60598-1, EN 60598-2-17  
EU EMC: EN 55 015, EN 55 103-1, EN 61 547  
US safety: ANSI/UL 1573  
Canadian safety: CSA C22.2 No. 166

#### Included Items

Osram HTI 700/D4/75 lamp (installed): 97010212  
Radial breakup gobo animation wheel (installed): 62325048  
5 extra metal gobos and extra spring:  
10 AT main fuse (installed): 05020025  
15 AT main fuse: 05020027  
Two Omega clamp attachment brackets with 1/4-turn fasteners: 91602001  
User manual: 35000137

#### Accessories

Philips MSR Gold 700 SA/2 DE lamp: 97010312  
GE CSR700/S/DE/60 lamp: 97010240  
Spiral breakup gobo animation wheel: 62325049  
Linear breakup gobo animation wheel: 62325050  
Coarse tangential gobo animation wheel: 62325051  
Cloud breakup gobo animation wheel: 62325094  
Elliptical breakup gobo animation wheel: 62325095  
Wash filter for MAC 700 Profile: 91614028  
G-clamp: 91602003  
Half-coupler clamp: 91602005  
Quick trigger clamp: 91602007  
T-shaped omega bracket with quarter-turn fasteners: 91602008  
Double flightcase, MAC 550 Profile, MAC 700 Wash, MAC 700 Profile: 91510020  
Super Truss 20.5" mounting plate with half-couplers: 91602014

#### Related Items

Martin USB Duo™ DMX Interface Box: 90703010

Spare Parts

Osram HTI 700/D4/75 lamp: 97010212

Air filter (head, side): 20800170

6.3 AT main fuse: 05020020

15 AT main fuse: 05020027

Ordering Information

MAC 700 Profile in cardboard box: 90207000

MAC 700 Profile in double flightcase: 90207001

