



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

