

MAC 700 Profile™ Specifications

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.

Features

- 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

Gobos

Outside diameter: 27.9 mm (1.1 in.) +0/- 0.3 mm (0.01 in.)

Maximum image diameter: 23 mm (0.9 in.)

Maximum thickness: 1.1 mm (0.04 in.) in static slots, 4 mm (0.2 in.) in rotating slots

Recommended glass: High-temperature Borofloat or better with dichroic or enhanced aluminum coating

Recommended metal: 0.5 mm (0.02 in.) aluminum

Gobo Animation Wheel

Outside diameter: 116 mm (4.6 in.) +0/- 0.25 mm (0.01 in.)

Image outer diameter: 112 mm (4.4 in.)

Image inner diameter: 32 mm (1.3 in.)

Construction: 0.5 mm (0.02 in.) aluminum, magnetic mounting

Installation

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

Orientation: Any

Connections

AC power input: 3 m (9.8 ft.) 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): 6.3 AT (slow blow)

Thermal

Cooling: Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.): 40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C: 160° C (320° F)
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