

MAC TW1™ Specifications

The MAC TW1 is a powerful, silent tungsten wash light with a clean, even, soft-edged beam, a motorized zoom, exceptional and rich CMY color mixing and can be run from the built-in dimmer or from an external dimmer.

Features

- 1200 W tungsten halogen lamp
- CMY color mixing system
- Motorized zoom
- Fresnel (included), narrow, and multi array
- Internal & external electronic dimming plus mechanical dimming
- 14.5-105° beam angle
- Strobe effect up to 10 Hz, random strobe
- Pan and tilt range of 540°/242°
- Patented very low-noise cooling
- Modular design for easy maintenance and servicing
- Various front accessories for theatre, television and film applications
- IGBT or 80 V dimmer options for universal operating voltage
- Accepts 240 V, 230 V, 115 V or 80 V lamps (depending on dimmer and mains voltage)

Physical

- Length: 454 mm (17.9 in.)
- Width: 362 mm (14.3 in.)
- Height: 709 mm (27.9 in.), head straight up
- Weight: 26.8 kg (59.1 lbs.), IGBT dimmer model
- Weight: 27.4 kg (60.4 lbs.), 80 V dimmer model

Lamp

- Type: 1200 W tungsten halogen
- Approved lamps: Philips 1200/115, 1200/230 or 1200/240 FastFit, Philips Hi-Brite 1200/80 FastFit
- Socket: PGJX-50
- Lamp voltage must match internal or external dimmer output voltage*

Dynamic Effects

- Color mixing: CMY, independently variable 0 - 100%
- Electronic dimming: Multi-voltage IGBT and 80 V internal dimmer options, 'plug and play' external dimming
- Mechanical dimmer: 0 - 100%
- Shutter: Strobe effect up to 10 Hz, random strobe
- Zoom: Narrow 14.5° - 27°, Standard 20° - 41°, Very wide 97° - 105°, 1/10 peak angles, 80 V lamp
- Pan: 540°
- Tilt: 242°

Control and Programming

DMX channels: 14/20

Setting and addressing: Control panel with display

16-bit control: CMY, mechanical dimmer, electronic dimmer, zoom, pan & tilt

Movement control options: Tracking and vector

Dimming curve options: Various available

Protocol: USITT DMX512-A

Receiver: Opto-isolated RS-485

Firmware update: Serial upload via DMX link

Dimming System Options

Internal multi-voltage IGBT dimmer: 0 - 100%, 8- or 16-bit dimming resolution, controlled via DMX

Internal 80 V dimmer: 0 - 100%, 8- or 16-bit dimming resolution, controlled via DMX

External dimmer input: Intelligent lamp power control

Construction

Color(s): Black

Housing: Magnesium alloy, UV-resistant fiber-reinforced composite

Reflector: Glass, cold light

Protection rating: IP20

Installation

Orientation: Any

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

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

External dimmer: Neutrik PowerCon

Electrical

AC power: 100-120/200-240 V nominal, 50/60 Hz

Power supply unit: Auto-ranging electronic switch-mode

Main fuse: 20 AT (slow blow)

Thermal

Lamp cooling: Patent-pending low noise ducted forced air system

Cooling: Filtered forced air (temperature-regulated, low noise)

Maximum ambient temperature (Ta max.): 40° C (104° F)

Minimum ambient temperature (Ta min.): 0° C (32° F)

Maximum surface temperature, steady state, Ta=40° C: 200° C (392° F)

Total heat dissipation (calculated, +/- 10% at 110 V, 60 Hz / 230 V, 50 Hz): 4180 / 4160 BTU/hr.

Acoustic

Sound power level: 31 dBA (steady state, lamp on, effects static, Ta=20°C (68° F), test conditions ISO 3743-2:1994)

Approvals



EU safety: EN 60598-2-17, EN 61347-1

EU EMC: EN 55 015, EN 55 103-1, EN 55103-2

US safety: ANSI/UL 1573

Canadian safety: CAN/CSA E60598-1, CAN/CSA E598-2-17