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

### Technical Specifications

#### Physical
- **Length:** 454 mm
- **Width:** 362 mm
- **Height:** 709 mm, head straight up
- **Weight:** 26.8 kg, IGBT dimmer model
- **Weight:** 27.4 kg, 80 V dimmer model

#### 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
- **Firmware update:** Serial upload via DMX link

#### 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:**

#### 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 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)

#### Typical Power and Current
- 115 V, 60 Hz: 1226 W, 10.7 A, PF 0.998
- 230 V, 50 Hz: 1220 W, 5.3 A, PF 0.995
- 240 V, 50 Hz: 1233 W, 5.2 A, PF 0.996
- 230 V, 50 Hz using internal 80 V dimmer: 1219 W, 5.5 A, PF 0.970
- 230 V, 50 Hz using external dimmer, figures for fixture only: 93 W, 1.0 A, PF 0.420
Measurements made at nominal voltage. Allow for a deviation of +/- 10%.

**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
- Minimum ambient temperature (Ta min.): 0° C
- Maximum surface temperature, steady state, at 40° C ambient: 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, 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

**Included Items**
- Two Omega clamp attachment brackets with 1/4-turn fasteners: 91602001
- Four 20 AT main fuses (installed): 05020051
- User manual: 35000184

**Accessories**
- Philips Hi-Brite 1200/80 FastFit 80 V lamp: 97000006
- Philips 1200/115 FastFit 115 V lamp: 97000112
- Philips 1200/230 FastFit 230 V lamp: 97000113
- Philips 1200/240 FastFit 240 V lamp: 97000114
- Narrow-angle lens kit: 91610032
- Very wide-angle lens kit: 91610033
- Front accessory holder: 91611260
- Internal 80 V dimmer: 91614026
- Flightcase (holds 2 fixtures): 91510019
- Half-coupler clamp: 91602005
- G-clamp: 91602003
- Quick trigger clamp: 91602007
- Omega bracket: 91602001
- T-shaped omega bracket with quarter-turn fasteners: 91602008
- Safety cable, safe working load 50 kg: 91604003
- Gel frame:
- Top hat:
- Top hat with louver:

**Spare Parts**
- 20 AT main fuse: 05020051

**Ordering Information**
- MAC TW™, Multi-voltage, 80 V dimmer in cardboard box: 90202400
- MAC TW™, Multi-voltage, 80 V dimmer, 2-unit flightcase: 90202401

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