



MAC 550

The MAC 550 features unprecedented output for a 400 W profile, astounding graphics and animation, a motorized zoom and new color and gobo motors.

FEATURES

TECHNICAL SPECIFICATIONS

Physical

Length: 450 mm
Width: 365 mm
Height: 636 mm, head straight up
Weight: 31 kg

Dynamic Effects

Color wheel: Two wheels, each with 8 filters + open, indexing, continuous rotation
Rotating gobo wheel: 6 interchangeable gobos + open, indexing, continuous gobo rotation & scrolling, shake
Static gobos: 9 interchangeable gobos + open, continuous scrolling, random gobo
Gobo animation: Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Iris: 10 - 100% diameter, pulse effects
Mechanical dimmer: 0 - 100%
Shutter: Strobe effect up to 10 Hz, random strobe, pulse effects, instant open and blackout
Focus: 2 m to infinity
Zoom: 14° - 30°
Pan: 540°
Tilt: 246°

Control and Programming

DMX channels: 21/27
Setting and addressing: Control panel with LED display
16-bit control: Color wheels 1 + 2, rotating gobo wheel, dimmer, iris, 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: 400 W short-arc discharge
Fitted as standard: Osram HTI 400 W/D3
Color temperature: 7500 K
CRI (Color rendering index): 80
Average lifetime: 750 hours
Hot restrike: Yes
Socket: Double-ended SFc 10-4 with key
Ballast: Electronic

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: 6.3 AT (for 200-240 V power)
Main fuse: 10 AT (for 100-120 V power)

Typical Power and Current

100 V, 50 Hz: 650 W, 6.8 A, PF 0.954
100 V, 60 Hz: 640 W, 6.7 A, PF 0.961
120 V, 60 Hz: 626 W, 5.5 A, PF 0.956
208 V, 60 Hz: 592 W, 3.1 A, PF 0.936
230 V, 50 Hz: 594 W, 2.8 A, PF 0.927
250 V, 50 Hz: 594 W, 2.6 A, PF 0.921

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

Thermal

Cooling: Filtered forced air (temperature-regulated)
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): 2200 BTU/hr.

Approvals

EU EMC: EN 50 081-1, EN 50 082-1
EU safety: EN 60598-1, EN 60598-2-17
Canadian safety: CSA C22.2 No. 166
US safety: ANSI/UL 1573

Included Items

Osram HTI 400/D3 lamp (installed): 97010211
Radial breakup gobo animation wheel (installed): 62325048
Two T-shaped Omega brackets with 1/4 turn fasteners: 91602008
User manual: 35000136

Accessories

GE CSR400/S/DE/75 lamp: 97010245
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
G-clamp: 91602003
Half-coupler clamp: 91602005
Quick trigger clamp: 91602007
Double flightcase, MAC 550 Profile, MAC 700 Wash, MAC 700 Profile: 91510020

Spare Parts

Osram HTI 400/D3 lamp: 97010211
6.3 AT main fuse: 05020020
10 AT main fuse: 05020025
Air filter (head, side): 20800170

Ordering Information

MAC 550 Profile in cardboard box: 90217000
MAC 550 Profile in single flightcase: 90217010

