



MAC 401 Dual RGB Zoom

The MAC 401 Dual RGB Zoom is a creatively fresh and versatile LED moving head wash light with an innovative double-sided design that gives it flexible dual functionality, for example as a double wash light or beam reflective mirror. The MAC 401 Dual's advanced wash characteristics combine with a host of other useful features like fast zoom and individual LED segment control to add a new and inventive element to touring and rental applications, TV shows, corporate events, night-time venues and leisure environments.

FEATURES

- Very bright - over 6600 lumens of output
- 36 lenses in four individually controllable groups
- Built-in macro effects
- Broad beam look with speedy zoom
- Low noise operation
- Accessory gel frame holder
- RGB and Hue/Saturation control modes
- Double washlight, beam reflective mirror, upcoming options
- Extremely energy efficient

TECHNICAL SPECIFICATIONS

Physical

Length: 221 mm
Width: 505 mm
Height: 527 mm
Weight: 21 kg incl. 2 head modules, excl. brackets

Dynamic Effects

Color mixing: RGB or HSV
Red or hue: 0 - 100%
Green or saturation: 0 - 100%
Blue or value: 0 - 100%
Color temperature control: Variable 10 000 - 2000 K
Electronic 'color wheel' effect: 33 LEE-referenced colors plus white, variable-speed color-wheel rotation effect and random color
Pre-programmed effects: Two superimposable chase/pulse/flip/flicker/strobe/static effects with variable intensity, x-fading and 'pixel wheel' rotation speed
Strobe effect: Electronic, with pulse and random effects
Electronic dimming: 0 - 100%, four dimming curve options
Zoom: 16° in Hypermode, 20° - 50°
Pan: 630° with two speed settings
Tilt: 300° with two speed settings

Control and Programming

Control: DMX
Color control modes: RGB + CTC (raw and calibrated), HSV
DMX channels: 13/17/21/25/33 depending on control mode & pixel grouping
Setting and addressing: Control panel with LED display
Protocol: USITT DMX512/1990
Transceiver: RS-485

Optics

Light source: 36 Osram multi-color LED high power emitters
LED refresh rate: 887 Hz

Construction

Color: Black
Housing: High-impact flame-retardant thermoplastic and die-cast aluminum
Protection rating: IP20

Installation

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

Orientation: Any

Minimum distance to combustibles: 200 mm

Minimum distance to illuminated surfaces: 200 mm

Minimum distance to persons and objects in beam zone: 1 m

Connections

AC power input: Neutrik PowerCon

DMX data in/out: 5-pin locking XLR, RJ-45

Electrical

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

Power supply unit: Auto-ranging electronic switch-mode

Main fuses: 10 AT (slow blow) x 2

Typical Power and Current

Only RGB Zoom module installed (standard configuration):

100 V, 50 Hz: 367 W, 3.7 A, PF 0.995

100 V, 60 Hz: 367 W, 3.7 A, PF 0.995

110 V, 60 Hz: 364 W, 3.3 A, PF 0.994

120 V, 60 Hz: 367 W, 3.1 A, PF 0.993

208 V, 60 Hz: 360 W, 1.8 A, PF 0.967

230 V, 50 Hz: 360 W, 1.7 A, PF 0.973

240 V, 50 Hz: 360 W, 1.6 A, PF 0.969

RGB Zoom and optional CT Zoom modules installed:

100 V, 50 Hz: 770 W, 7.8 A, PF 0.996

100 V, 60 Hz: 765 W, 7.8 A, PF 0.997

110 V, 60 Hz: 755 W, 7.0 A, PF 0.995

120 V, 60 Hz: 749 W, 6.3 A, PF 0.993

208 V, 60 Hz: 732 W, 3.6 A, PF 0.980

230 V, 50 Hz: 731 W, 3.3 A, PF 0.965

240 V, 50 Hz: 730 W, 3.2 A, PF 0.955

Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

PF = power factor:

Thermal

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

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

Minimum ambient temperature (Ta min.): 5° C

Maximum surface temperature, steady state, at 40° C ambient: 80° C (176° F)

Total heat dissipation (calculated, +/- 10%), one module installed: 1250 BTU/hr.

Total heat dissipation (calculated, +/- 10%), two modules installed: 2630 BTU/hr.

Approvals

EU safety: EN 60598-2-17

EU EMC: EN 61000-6-1, EN 61000-6-3

US safety: UL 1573

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

Included Items

RGB Zoom Module (installed): 91611325

Two Omega clamp attachment brackets with 1/4-turn fasteners: 91602001

User manual: 35000229

Neutrik PowerCon NAC3FCA male input connector: 05342804

Two 10 AT main fuses (installed): 05021029

Accessories

MAC 401 Dual™ Color Frame Kit: 91610102

MAC 401 Dual™ RGB Zoom Module: 91611325

MAC 401 Dual™ CT Zoom Module: 91611349

Mirror Films for MAC 401 Rear of Head, set of 10: 91611352

G-clamp: 91602003

Half-coupler clamp: 91602005

Quick trigger clamp: 91602007

Safety cable, safe working load 50 kg: 91604003

Double flightcase for MAC 401 Dual™: 91510150

Related Items

Martin USB Duo™ DMX Interface Box: 90703010

Spare Parts

10 AT main fuse: 05021029

Replacement head air filter: 62407156

Ordering Information

MAC 401 Dual™ RGB Zoom, in cardboard box: 90231200

