



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.

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

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 combustible materials: 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 0.967 120 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 <i>Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.</i> <i>PF = power factor</i> 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
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: 80° C 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
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

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