

The MAC 401 Dual is a creatively fresh and versatile LED moving head washlight with an innovative double-sided design that gives it flexible dual functionality, for example as a double washlight 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.

- LED source
- 50,000 hour lifetime
- Thirty-six, multi-color, single-point source LEDs
- RGB or HSV color mixing
- Fully blends colors before they leave each lens
- Variable CTC
- Over 6500 lumens of output
- Speedy zoom
- Broad beam look
- 36 lenses in four individually controllable groups
- 16-50° beam angle
- Built-in macro effects
- Quiet temperature-controlled fan cooling
- Silent mode option
- Extremely energy efficient
- Greater reliability, less maintenance
- Double washlight, beam reflective mirror, upcoming options
- Accessory gel frame holder
- RGB and Hue/Saturation control modes

Physical Length: 221 mm (8.7 in.)
 Width: 505 mm (19.9 in.)
 Height: 527 mm (20.7 in.)
 Weight: 21 kg (46.3 lbs.) 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

Optics Light source: 36 Osram multi-color LED high power emitters

Control and Programming Control: DMX
 Color control modes: RGB or 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

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 (7.9 in.)
 Minimum distance to illuminated surfaces: 200 mm (7.9 in.)
 Minimum distance to persons and objects in beam zone: 1 m (3.3 ft.)

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: Electronic switch mode Main fuses: 10 AT (slow blow) x 2 Maximum total power consumption: 386 W (one RGB/zoom LED module installed) Maximum total power consumption: 766 W (two RGB/Zoom LED modules installed) <i>Power consumption figures are typical, not maximum. Allow for +/-10% variation.</i>
Thermal	Cooling: Filtered forced air (temperature-regulated, low noise) Maximum ambient temperature (Ta max.): 40° C (104° F) Minimum ambient temperature (Ta min.): 5° C (41° F) Maximum surface temperature, steady state: 80° C (176° F) Total heat dissipation (calculated, +/- 10%), one module installed: 1312 BTU/hr Total heat dissipation (calculated, +/- 10%), two modules installed: 2604 BTU/hr
Approvals	 <p>EU safety: EN 60598-2-17 EU EMC: EN 61000-6-1, EN 61000-6-3 US safety: UL 1573 Canadian safety: CAN/CSA-E598-2-17</p>
Included Items	MAC 401 RGB Zoom Module (installed): P/N 91611325 Two Omega clamp attachment brackets with 1/4-turn fasteners: P/N 91602001 User manual: P/N 35000229 Neutrik PowerCon NAC3FCA male input connector: P/N 05342804 Two 10 AT main fuses (installed): P/N 05021029
Accessories	MAC 401 Dual™ Color Frame Kit: P/N 91610102 MAC 401 Dual" RGB Zoom Module: P/N 91611325 MAC 401" Dual CT Zoom Module: P/N 91611349 MAC 401 Dual™ Double Flightcase: P/N 91510150 G-clamp: P/N 91602003 Half-coupler clamp: P/N 91602005 Quick trigger clamp: P/N 91602007 Safety wire, universal, safe working load 50 kg (110.2 lbs.): P/N 91604003
Related Items	Martin Universal USB/DMX Interface Box: P/N 90509008
Spare Parts	10 AT main fuse: P/N 05021029 Replacement head air filter: P/N 62407156
Ordering Information	MAC 401 Dual™ , in cardboard box: P/N 90231200

Photometric Data

Standard (All LEDs on) , Zoom at Hypermode
 Efficacy: 8.2 lumens per watt
 One-tenth peak angle: 17°
 Total output: 3000 lm

Standard (All LEDs on) , Zoom at Minimum
 Efficacy: 12.4 lumens per watt
 One-tenth peak angle: 21°
 Total output: 4600 lm

Standard (Only Blue LEDs on) , Zoom at Maximum	Efficacy: 5.5 lumens per watt One-tenth peak angle: 43° Total output: 650 lm
Standard (Only Green LEDs on) , Zoom at Maximum	Efficacy: 25.3 lumens per watt One-tenth peak angle: 43° Total output: 5200 lm
Standard (Only Red LEDs on) , Zoom at Maximum	Efficacy: 13.6 lumens per watt One-tenth peak angle: 48° Total output: 1300 lm
Standard (All LEDs on) , Zoom at Maximum	Efficacy: 18 lumens per watt One-tenth peak angle: 49° Total output: 6600 lm

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