

The MAC 301 Wash" is an LED moving head washlight with a powerfully fast zoom and impressive zoom range. It is capable of producing a wide range of exceptional colors from rich saturated shades to pastels through the entire zoom range.

- Fast and efficient zoom: 13 - 36°
- Brightest LED moving head in its class
- Excellent color mixing for vibrant saturates and subtle pastels
- Punchy beam with great beam definition
- Smooth electronic dimming: 0 - 100%
- Electronic strobe with pulse and random effects
- Compact and low weight
- Quiet
- DMX-512 control
- All the benefits of LED

**Physical** Length: 200 mm (7.9 in.)  
Width: 320 mm (12.6 in.)  
Height: 388 mm (15.3 in.)  
Weight: 8.9 kg (19.6 lbs.) excl. brackets

**Dynamic Effects** Color mixing: RGB  
Red: 0 - 100%  
Green: 0 - 100%  
Blue: 0 - 100%  
Electronic 'color wheel' effect: 7 colors plus white, color wheel rotation effect, snap, blackout or dimmer fade at color changes  
Variable CTC  
Electronic dimming: 0 - 100%, two dimming curve options for overall/individual RGB intensity  
Zoom: 13 - 36°  
Strobe effect: Electronic, with pulse and random effects  
Pan: 430°  
Tilt: 300°  
Adjustable pan/tilt and effects speed

**Optics** Light source: Luxeon Rebel high power emitters  
Red: 621-637 nm  
Green: 525-542 nm  
Blue: 445-461 nm

**Control and Programming** Control options: DMX, stand-alone, master/slave  
Control resolution: 8- and 16-bit  
DMX channels: 12/15/16/19  
Setting and addressing: Control panel with backlit graphic display  
Protocol: USITT DMX512/1990  
Stand-alone memory: 20 scenes  
Stand-alone and master/slave programming: Control panel with backlit graphic display  
Transceiver: RS-485  
Fixture software update: MAC 301 Software Uploader device

**Construction** Color: Black  
Housing: High-impact flame-retardant thermoplastic  
Protection rating: IP20

**Installation** Mounting points: 2 pairs of 1/4-turn locks  
Orientation: Any  
Minimum distance to combustible materials: 100 mm (3.9 in.) from head, no minimum distance from base

**Connections** AC power input: 1.6 m (5.2 ft.) cable tail  
DMX data in/out: 3-pin and 5-pin locking XLR

**Electrical** AC power: 100-130/200-240 V nominal, 50/60 Hz  
Maximum total power consumption: 350 W

Power supply unit: Auto-ranging electronic switch mode  
 Main fuse (100-130 V power): 6.3 AT (slow blow)  
 Main fuse (200-240 V power): 4 AT (slow blow)

**Thermal** Cooling: Forced air (temperature-regulated, low noise, user-definable levels)  
 Maximum ambient temperature (Ta max.): 40° C (104° F)  
 Minimum ambient temperature (Ta min.): 5° C (41° F)  
 Total heat dissipation (calculated, +/- 10%): 1200 BTU/hr.

**Approvals**



EU safety: EN 60598-1, EN 60598-2-17  
 EU EMC: EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4  
 US safety: UL 1573  
 Canadian safety: CSA C22.2 No. 166

**Included Items** Two Omega clamp attachment brackets with 1/4-turn fasteners for MAC 301: P/N 91602015  
 User manual: P/N 35000228

**Accessories** MAC 301 Software Uploader: P/N 90758099  
 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  
 Four-unit flightcase for 4 x MAC 301: P/N 91510021

**Ordering Information** MAC 301 Wash <sup>TM</sup>, US model, in cardboard box: P/N 90218100  
 MAC 301 Wash <sup>TM</sup>, US model, in 4-unit flightcase: P/N 90218101  
 MAC 301 Wash <sup>TM</sup>, EU model, in cardboard box: P/N 90218000  
 MAC 301 Wash <sup>TM</sup>, EU model, in 4-unit flightcase: P/N 90218001

## Photometric Data

<b>Standard (Only 36 x red LEDs on) , Zoom at Minimum</b>	Efficacy: 6 lumens per watt One-tenth peak angle: 12.5° Total output: 590 lm
<b>Standard (Only 36 x green LEDs on) , Zoom at Minimum</b>	Efficacy: 15.6 lumens per watt One-tenth peak angle: 13° Total output: 2500 lm
<b>Standard (All LEDs on) , Zoom at Minimum</b>	Efficacy: 10.4 lumens per watt One-tenth peak angle: 13° Total output: 3300 lm
<b>Standard (Only 36 x blue LEDs on) , Zoom at Minimum</b>	Efficacy: 3.2 lumens per watt One-tenth peak angle: 13° Total output: 530 lm
<b>Standard (Only 36 x red LEDs on) , Zoom at Maximum</b>	Efficacy: 7.5 lumens per watt One-tenth peak angle: 36° Total output: 740 lm
<b>Standard (Only 36 x blue LEDs on) , Zoom at Maximum</b>	Efficacy: 3.7 lumens per watt One-tenth peak angle: 34° Total output: 610 lm
<b>Standard (All LEDs on) , Zoom at Maximum</b>	Efficacy: 12.2 lumens per watt One-tenth peak angle: 35° Total output: 3900 lm

Standard (Only 36 x green LEDs on) , Zoom at Maximum

Efficacy: 18.2 lumens per watt

One-tenth peak angle: 36°

Total output: 2900 lm

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