

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.

- LED source
- 108 high-power LEDs
- Long life LEDs
- RGB color mixing
- Electronic 7 color + white color wheel rotation effect
- Variable CTC
- Brightest LED moving head in its class
- Smooth electronic dimming: 0 - 100%
- Fast and efficient zoom: 13 - 36°
- 13-36° beam angle
- Punchy beam with great beam definition
- Electronic strobe with pulse and random effects
- Quiet for noise sensitive applications
- Increased energy efficiency
- Greater reliability, less maintenance
- Compact, low weight design
- DMX, stand-alone, synchronized (master/slave)

**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** Shutter effect: Electronic, with pulse and random effects  
Electronic dimming: 0 - 100%, two dimming curve options for overall/individual RGB intensity  
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  
Zoom: 13 - 36°  
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

<b>Connections</b>	AC power input: 1.6 m (5.2 ft.) cable tail DMX data in/out: 3-pin and 5-pin locking XLR
<b>Electrical</b>	AC power: 100-240 V nominal, 50/60 Hz Maximum total power consumption: 350 W Power supply unit: Auto-ranging electronic switch mode Main fuse: 6.3 AT (slow blow) Standby power: <60 W
<b>Typical Power and Current</b>	100 V, 60 Hz: 344 W, 3.5 A, PF 0.998 110 V, 60 Hz: 341 W, 3.1 A, PF 0.997 120 V, 60 Hz: 338 W, 2.9 A, PF 0.996 208 V, 60 Hz: 331 W, 1.7 A, PF 0.983 230 V, 50 Hz: 332 W, 1.5 A, PF 0.972 240 V, 50 Hz: 332 W, 1.5 A, PF 0.968 <i>PF = power factor</i> <i>Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.</i>
<b>Thermal</b>	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.
<b>Approvals</b>	 <p>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 (US model): UL 1573, UL 8750 Canadian safety (US model): CSA C22.2 No. 166</p>
<b>Included Items</b>	Two Omega clamp attachment brackets with 1/4-turn fasteners for MAC 301: P/N 91602015 User manual: P/N 35000228
<b>Accessories</b>	MAC 301 Software Uploader: P/N 90758099 MAC 301 Diffusion Filter: P/N 91611324 1 m (3.3 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820012 2 m (6.6 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820011 5 m (16.4 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820008 10 m (32.8 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820007 20 m (65.6 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820009 100 m (328.1 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820010 Quick trigger clamp: P/N 91602007 Half-coupler clamp: P/N 91602005 G-clamp: P/N 91602003 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
<b>Spare Parts</b>	6.3 AT main fuse: P/N 05020020
<b>Ordering Information</b>	MAC 301 Wash™, US model, in cardboard box: P/N 90218100 MAC 301 Wash™, US model, in 4-unit flightcase: P/N 90218101 MAC 301 Wash™, EU model, in cardboard box: P/N 90218000 MAC 301 Wash™, 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
<b>Standard (Only 36 x green LEDs on) , Zoom at Maximum</b>	Efficacy: 18.2 lumens per watt One-tenth peak angle: 36° Total output: 2900 lm

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