



# MAC 301 Wash

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.

## FEATURES

## TECHNICAL SPECIFICATIONS

### Physical

Length: 200 mm  
Width: 320 mm  
Height: 388 mm  
Weight: 8.9 kg 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  
Color temperature control: Variable 8000 - 2800 K  
Zoom: 13 - 36°  
Pan: 430°  
Tilt: 300°

Adjustable pan/tilt and effects speed:

### 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

### Optics

Light source: Luxeon Rebel high power emitters  
Red: 621-637 nm  
Green: 525-542 nm  
Blue: 445-461 nm  
LED refresh rate: 100 Hz or 120 Hz depending on camera mode

### 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 from head, no minimum distance from base

### Connections

AC power input: 1.6 m cable tail  
DMX data in/out: 3-pin and 5-pin locking XLR

### Electrical

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

### Typical Power and Current

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

PF = power factor:

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

Thermal

Cooling: Forced air (temperature-regulated, low noise, user-definable levels)  
Maximum ambient temperature (Ta max.): 40° C  
Minimum ambient temperature (Ta min.): 5° C  
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 (US model): UL 1573, UL 8750  
Canadian safety (US model): CSA C22.2 No. 166

#### Included Items

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

#### Accessories

MAC 301 Software Uploader: 90758099  
MAC 301 Diffusion Filter: 91611324  
Quick trigger clamp: 91602007  
Half-coupler clamp: 91602005  
G-clamp: 91602003  
Safety cable, safe working load 50 kg: 91604003  
Four-unit flightcase for 4 x MAC 301: 91510021

#### Spare Parts

6.3 AT main fuse: 05020020

#### Ordering Information

MAC 301 Wash™, US model, in cardboard box: 90218100  
MAC 301 Wash™, US model, in 4-unit flightcase: 90218101  
MAC 301 Wash™, EU model, in cardboard box: 90218000  
MAC 301 Wash™, EU model, in 4-unit flightcase: 90218001

