

SWR Sommerfestival 2009  
 Group: Peter Maffay  
 Lighting designer: Günther Jäckle  
 Photos courtesy of Ralf Mertins R&P Productions GmbH.



## Specifications

### 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
---------------	----------------------------------

### 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

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
MAC-301 Software Uploader:	P/N 90758099

### SPARE PARTS

6.3 AT main fuse:	P/N 05020020
4 AT main fuse:	P/N 05020014

### ORDERING INFORMATION

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

©2009 Martin Professional A/S | Images contained in this brochure have been converted to CMYK and are not necessarily representative of actual colors. | Specifications are subject to change without notice.



MAC 301 Wash™

### Martin Professional A/S

Olof Palmes Allé 18 | 8200 Aarhus N | Denmark | Phone: +45 87 40 00 00 | Fax: +45 87 40 00 10 | www.martin.com

Founded in 1986 and headquartered in Aarhus, Denmark, Martin Professional is a world leader in the creation of dynamic lighting solutions for the entertainment, architectural, and commercial sectors. Martin lighting solutions are industry standard on top tours and events, grace prestigious theatres, energize nightclubs, and decorate major television studios around the globe. The company operates the industry's most complete and capable distributor network with local partners in nearly 100 countries. For more information please visit www.martin.com

**Martin**

**Martin**

## Class-leading LED moving head

**The Martin MAC 301 Wash™ is an LED moving head washlight with a powerfully fast zoom and impressive zoom range that gives it unequalled performance for a fixture in its class.**

Highly versatile, it is capable of producing a wide range of exceptional colors from rich saturated shades to pastels through the entire zoom range.

This multi-purpose dynamic effect is useful in a variety of settings including touring and events, television studios and all types of night-time venues.



### LED-based MAC with zoom

The MAC 301 Wash's efficient and fast zoom provides beam angle control from 13 - 36° for more accurate and flexible design possibilities, and the fixture's outstanding RGB color mixing is maintained through the entire zoom range.

### Brightest LED moving head in its class

The fixture's 108 high-power LEDs produce an extremely bright and well-defined beam. In fact, the MAC 301 Wash is the brightest LED moving head in its class.

### Outstanding color

The full spectrum RGB color mixing system combines with unique optics to produce a wide range of vibrant saturated colors and subtle pastels. A variable CTC allows for a range of adjustable shades from pure cool to pleasing warm.

For increased color possibilities, the MAC 301 includes an electronic 7 color + white color wheel rotation effect with snap, blackout or dimmer fade at each color change.

### Dynamic effects

The MAC 301 Wash is capable of smooth dimming from 0-100% with excellent color stability throughout the entire dimming range. Strobe effects such as pulse and random effects are also possible.

### Fast, smooth movement

High-speed 430° pan and 300° tilt movement with fast acceleration and smooth movement is provided by powerful three-phase stepper motors. An automatic positioning correction system returns the fixture to its original position should it be accidentally knocked out of position.

### Surprisingly quiet

The MAC 301 Wash is surprisingly quiet which makes it suitable for noise-sensitive applications as well.

*Full range electronic dimming and intensity changes - slow to fast - are exceptionally smooth with excellent color stability throughout the entire range.*

*A fast and precise zoom provides beam angle control from 13 - 36°. The fixture's outstanding RGB color mixing is maintained through the entire zoom range.*



*RGB color mixing with CTC gives a wide range of useful shades from rich saturates to soft pastels, each color temperature manageable from cool to warm. An electronic color wheel rotation effect expands the color possibilities even further.*

### DMX-512 control

The MAC 301 Wash is industry standard DMX-512 controllable with conveniently fast stand-alone scenes included. An onboard control panel and illuminated LCD graphics display provides for easy programming with easy-to-read fixture menus and messages.

An auto-sensing\* power supply covers worldwide voltages and frequencies allowing the fixture to operate anywhere in the world .

### Durable, user-friendly design

Made of durable diecast aluminum for the rigors of the rental market, the MAC 301 Wash is compact and light-weight enough to be used in a variety of applications.

The fixture's head and yoke are easy to access for easy cleaning and maintenance.

### LED benefits

The MAC 301 Wash offers all the benefits of LED technology like greater reliability, less maintenance and increased energy efficiency for a smaller carbon footprint and lower cost of ownership.

\* Main fuse change potentially required



*Equipped with both 3-pin and 5-pin XLR in/out sockets, the MAC 301 Wash offers two 8-bit and two 16-bit DMX control modes. An onboard control panel with LCD display provides easy-to-read fixture menus and messages for easy programming.*

*High-quality, high-power Luxeon Rebel LEDs produce an extremely bright and well-defined beam, the brightest in its class.*