Atomic 3000 LED

The Atomic™ 3000 LED is the perfect blend of a traditional strobe and cutting-edge LED technology. Capitalizing on the original Atomic™ 3000 DMX's 15 years of success, this new version features identical functionality and behaviour – with the added benefits of LED technology. It offers the same extreme brightness as its iconic predecessor, but with substantially lower peak power consumption.

The Atomic 3000 LED is not only a strobe, but also a creative tool that incorporates backlight illumination with RGB-controlled LEDs pointing into the reflector. It delivers stunning eye candy looks similar to the MAC Aura™ and the MAC Quantum™ Wash.

Internal FX macros and simplified re-use of the original Atomic Colors scroller complete the full-feature package and empower the Atomic 3000 LED to become the ultimate creative lighting tool.

Brightest LED-based strobe on the market

Unique RGB-controlled Aura backlight for stunning eye candy looks

Same look and feel as the original Atomic 3000 DMX

GALLERY

FEATURES

- Classic reflector look
- Iconic letterbox shape and industrial design
- Aura backlight (RGB) into reflector
- Dimmable house-light function at reduced brightness and power consumption
- LED and Xenon mode available via menu and DMX control channel
- Use of original Atomic color scroller made easy via internal power and data supply
- 4 button menu and LCD display for quick and easy setting adjustment
- Clever rigging and bracket solution
- 4 Channel DMX mode as Atomic 3000 (easy replacement)
- 14 Channel Extended DMX mode incl. Aura control and internal FX macros
- RDM compatible, USB port for software updates

TECHNICAL SPECIFICATIONS

Physical
Length: 245 mm (9.7 in.)
Width: 425 mm (16.8 in.)
Height: 240 mm (9.5 in.)
Weight: 7.8 kg (17.2 lbs.)
All data including mounting bracket

Dynamic Effects
Strobe: 0.289 - 16.667 Hz, variable flash rate, intensity and duration
Special effects: Blinder, ramp up/down, random flash, lightning. spikes, pre-programmed FX
Aura (secondary LED array illumination) color mixing: RGB

Control and Programming
Control systems: DMX, RDM
DMX channels: 3/4/14
Setting and addressing: Control panel with backlit monochrome graphic display
DMX compliance: USITT DMX512-A

RDM compliance: ANSI/ESTA E1.20 RDM
Transceiver: RS-485
Firmware update: USB memory key or via DMX with Martin™ M-DMX interface

Optics and Photometric Data
Max. total output: 180 000 lumens*

Beam (strobe) array
Light source: 228 x Cree XLamp XP-L, 10 W white LEDs (color temperature 5700 K)
Resolution: 8-bit
Dimming, above 16.7% output intensity: Current-controlled, flicker-free
Dimming, below 16.7% output intensity: PWM (refresh rate 6000 Hz)
Minimum LED lifetime: 50 000 hours**

Aura (backlight) array
Light source: 64 x Osram RGB LEDs
Resolution: 8 bits per color plus 8-bit dimming
Dimming: PWM (refresh rate 1001 Hz)
Minimum LED lifetime: 50 000 hours**
**For full photometric data, click on Photometrics in menu bar*
***To >70% output, figure obtained under manufacturer's test conditions*

Construction
Color: Black
Housing: Steel. high-impact thermoplastic, flame-retardant to UL 94 5VA
Protection rating: IP 20

Installation
Mounting points: Two pairs of quarter-turn fastener points, M12 holes in adjustable bracket
Orientation: Any
Minimum distance to combustible materials: 200 mm (8 in.) from fixture
Minimum distance to illuminated surfaces: 1 m (3 ft. 4 in.) from fixture
Location: Indoor use only, must be fastened to structure or surface

Connections
AC power: Neutrik PowerCON TRUE1 male socket
DMX data in/out: 5-pin locking XLR
Atomic Colors color gel scroller: 4-pin locking XLR
Software upload: USB 2.0

Electrical
AC power: 100-240 V~ nominal, 50/60 Hz
Power supply unit: Auto-ranging electronic switch mode
Maximum power consumption: 740 W
Rated current consumption: 3.5 - 8.4 A
Peak current consumption: 17.7 A
Typical half-cycle RMS inrush current: 17.7 A

Typical Power and Current
100 V, 60 Hz: 663 W, 6.8 A, PF 0.98
120 V, 60 Hz: 655 W, 5.7 A, PF 0.96
208 V, 60 Hz: 645 W, 3.5 A, PF 0.89
230 V, 50 Hz: 642 W, 3.2 A, PF 0.88
240 V, 50 Hz: 642 W, 3.1 A, PF 0.87
Measurements made at nominal voltage with all LEDs at full strobe intensity. Allow for a deviation of +/- 10%. Allow for peak currents that exceed these figures when using the blinder effect. PF = power factor.
Thermal
Cooling: Forced air (temperature-regulated, low noise, user-definable fan settings)
Maximum ambient temperature (Ta max.): 40° C (104° F)
Typical heat dissipation (calculated, +/- 10%): 2270 BTU/hr.

Approvals
EU safety: EN 60598-2-17 (EN 60598-1), EN 62471, EN 62493
EU EMC: EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety: UL 1573
Canadian safety: CSA E598-2-17 (CSA E60598-1)
Australia/NZ: RCM (pending)

Accessories

Optical accessories
Atomic Colors gel scroller: P/N 91611086

Power cables
Power Cable, H07RN-F Neutrik TRUE1-TRUE1 0.45 m (1.5 ft.): P/N 91611784
Power Cable, H07RN-F Neutrik TRUE1-TRUE1 1.2 m (3.9 ft.): P/N 91611785
Power Cable, H07RN-F Neutrik TRUE1-TRUE1 2.5 m (8.2 ft.): P/N 91611796
Power input cable, H07RN-F, 2.5 mm2, 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.): P/N 91611797
Power input cable, H07RN-F, 2.5 mm2, 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.): P/N 91611786

Power connectors
Cable Connector, Neutrik PowerCON TRUE1 NAC3MX-W (male): P/N 91611788
Cable connector, Neutrik PowerCON TRUE1 NAC3FX-W (female): P/N 91611789

Installation hardware
Half-coupler clamp: P/N 91602005
G-clamp (vertical hanging installation only): P/N 91602003
Quick trigger clamp (vertical hanging installation only): P/N 91602007

Related Items

Martin M-DMX (USB-DMX Interface Box for firmware uploads)
Martin™ M-PC 2U incl. Martin™ M-DMX Interface Box and USB cable: P/N 90737070
Martin M-PC Pro-64 / LJ-4 Controller kit: P/N 90737060

Data link splitter-amplifiers
Martin DMX 5.3 Splitter™: P/N 90758140
Martin RDM 5.5 Splitter™: P/N 90758150

Ordering Information
Atomic 3000 LED™ in cardboard box: P/N 90425000