

MAC AURA PXL

MULTI-SOURCE WASH LIGHT

SPEC SHEET



The Martin MAC Aura PXL adds to the industry standard line of Martin wash lights with multi-lens and Aura backlight technology. Within the MAC family, it is positioned to support applications between the MAC Aura XB and MAC Quantum Wash fixtures and incorporates a newly designed front lens that is less "busy" with fewer, but bigger "bubbles", compared to the MAC Quantum Wash. This allowing for a tighter, higher intensity, narrow beam as well as beautiful wide wash fields.

This fixture is also an industry first wash light to feature individual pixel control down to every single Aura backlight LED, which apart from being a versatile workhorse wash light also makes the MAC Aura PXL the most creative fixture in the market.

The compact size and low weight, trusted Martin build quality and feature set, and simple and clever setup and control options make the MAC Aura PXL ideal for rental customers and lighting designers working in concert/touring, TV shows and corporate, as well as customers supporting the high-end nightclub market.

KEY MESSAGES

TRUE WASH LIGHT WORKHORSE

From a tight, high intensity, narrow beam to beautiful wash fields, incorporated into a compact and lightweight package, the MAC Aura PXL suits every application.

BUILT FOR PIXEL MAPPING

With an all solid state color mixing system, instant color and intensity response, 19 individually controlled main beam pixels and also 141 individually controlled Aura backlight pixels, the MAC Aura PXL is a great choice for pixel-mapping. The color palette can also be set to fully match the color space of any other P3-driven product in the rig, allowing the fixture to fit in seamlessly.

BRIGHT, VIBRANT COLORS

The RGBW system delivers very vibrant colors with a brightness only expected from much bigger fixtures. The calibrated color system excels on subtle pastels and white tones, making any MAC Aura PXL in the rig match on the color point when they must.

P3 INCORPORATED

On top of DMX, Art-Net and sACN, all features of the fixture can be controlled by Martin's P3 protocol for setup and programming and allows a rig of fixtures to deliver cohesive content that blends together with video content on panels or creative LED products. You can even blend seamlessly between console and media input sources via the P3 mix channel.

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FEATURES

- RGBW solid state color mixing
- 13klm light output
- Calibrated colors
- Instant color mixing via solid state mixing (no moving parts)
- RGBW color mixing with very bright and vibrant saturated colors, as well as nice pastels and white tones
- Variable Color Temperature correction (CTB/CTO)
- Flicker-Free operation – LED driver frequency suitable for all kinds of camera applications
- Pixelated beam/field (19 pixels)
- Pixelated Aura backlight (141 pixels)
- 1: 8 zoom – Precise, silent and yet fast zoom
- Beautiful wash field
- Minor color temperature shift from center to edge
- Dimmer and shutter – Fully electronic dimmer/shutter control with various dimming curves and tungsten dimming (red-shift) emulation option
- Low noise cooling system
- Fast and silent pan/tilt and effects operation
- User-selectable output vs. sound level control
- Small overall size (488mm / 19.2in)
- Low weight (15.6kg / 34.4 lbs)
- Ethercon in/out w. P3, Art-Net, sACN
- Built in Ethernet switch with fail-safe bypass

ORDERING INFORMATION

MODELS

- MAC Aura PXL EPS (in cardboard box, polystyrene packaging) P/N 90250035HU
- MAC Aura PXL SIP (in cardboard box with SIP foam flight case insert)..... P/N 90250040HU
- MAC Aura PXL, white finish, EPS (in cardboard box, polystyrene packaging) P/N 90250030HU

INCLUDED ITEMS

- Two omega brackets with 1/4 turn fasteners for rigging clamp attachment



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ORDERING INFORMATION ACCESSORIES

ACCESSORIES

- Cables, 16 A, for connection to power:
 - 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 input cable, SJO0W, 12 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.) P/N 91610173
 - Power input cable, SJO0W, 12 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.) P/N 91610174
- Cables, 16 A, for relaying power in chains:
 - Power relay cable, H07RN-F, 2.5 mm², TRUE1 to TRUE1, 0.45 m (1.5 ft.) P/N 91611784
 - Power relay cable, H07RN-F, 2.5 mm², TRUE1 to TRUE1, 1.2 m (3.9 ft.) P/N 91611785
 - Power relay cable, H07RN-F, 2.5 mm², TRUE1 to TRUE1, 2.5 m (8.2 ft.) P/N 91611796
 - Power relay cable, SJO0W, 12 AWG, TRUE1 to TRUE1, 0.45 m (1.5 ft.) P/N 91610170
 - Power relay cable, SJO0W, 12 AWG, TRUE1 to TRUE1, 1.2 m (3.9 ft.) P/N 91610171
 - Power relay cable, SJO0W, 12 AWG, TRUE1 to TRUE1, 2.5 m (8.2 ft.) P/N 91610172
- Connectors:
 - Power connector, cable mount, Neutrik TRUE1 NAC3FX-W (female) P/N 91611789
 - Power connector, cable mount, Neutrik TRUE1 NAC3MX-W (male) P/N 91611788
- Installation hardware:
 - G-clamp (suspension with fixture hanging vertically downwards only) P/N 91602003
 - Quick Trigger Clamp (suspension with fixture hanging vertically downwards only) P/N 91602007
 - Half-coupler Clamp P/N 91602005
 - Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, black P/N 91604006
 - Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, silver P/N 91604007

RELATED ITEMS

- Martin™ RDM 5.5 Splitter P/N 90758150
- Martin Companion Cable P/N 91616091
- Martin Companion Software Suite (including firmware uploader) Free download from www.martin.com



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TECHNICAL SPECIFICATIONS (PRELIMINARY)

PHYSICAL

Length	232mm (9.1in.)
Width	410mm (16.1 in.)
Height	516mm (20.3in.) maximum 488mm (19in.) head straight up
Weight	15.6kg (34.4lbs)

DYNAMIC EFFECTS

Pre-programmed effects	Two ranges of FX
Beam color mixing	RGBW, independently variable 0 - 100%
Aura color mixing	RGB, independently variable 0-100%
Beam and Aura electronic color wheel	Virtual color wheel. Open, indexing, continuous rotation, random color. 36 pre-programmed solid colors
Beam and Aura color temperature control	Variable 10000 - 2000 K
Beam and Aura Dimmer/shutter	0 - 100% continuous electronic dimming, Choice of four dimming curves
Zoom	Motorized
Pan	540°, coarse & fine control and speed
Tilt	268°, coarse & fine control and speed
Position correction system	Absolute position monitoring

CONTROL AND PROGRAMMING

Control options	DMX, RDM, Art-Net, sACN, P3
16-bit control	Dimming, pan and tilt
Setting and addressing	Control panel with backlit LCD display and 4 buttons or via RDM or P3
DMX channels	Compact mode 17; basic mode 32; extended mode 89; ludicrous mode 512
Fixture Identification	User-settable ID number
DMX compliance	USITT DMX512-A
RDM compliance	ANSI/ESTA E1.20
Transceiver	Opto-isolated RS-485
Fixture software update	USB memory device or over DMX link

OPTICS

Zoom range	1:8
Full beam angle Half Peak	Narrow 5° Wide 40°
Full beam angle Tenth Peak	Narrow 7° Wide 55°
Light source	Primary LED 19* 40W RGBW LED; Aura LED 141*0.42W RGB LED
Max total Primary LED engine power	Approx.570W; Max total Aura LED engine power: approx.60W
Minimum LED lifetime	20,000 (to >80% luminous output)

PHOTOMETRIC DATA

Light engine luminous output	19000 lumens
Fixture luminous output:	
Narrow beam	11000 lumens
Wide beam	13000 lumens
Fixture Center intensity:	
Narrow beam	1 Million cd
Wide beam	30 kcd
CRI (Color Rendering Index)	>74
CQS (Color Quality Scale)	82
TM-30 Rf (IES TM-30-15 Fidelity Index)	79
TM-30 Rg (IES TM-30-15 Gamut Index)	115
TLCI (Television Lighting Consistency Index)	62
CCT	6500 Kelvin
LED refresh rate	Beam LED 1200 Hz Aura LED 1200 Hz

CONSTRUCTION

Housing	High-impact flame-retardant thermoplastic
Color	Black
Protection rating	IP 20

INSTALLATION

Installation mounting points	Two quarter-turn brackets for rigging
Orientation	Any
Minimum distance to combustible material	0.2 m(8 in.)
Minimum distance to illuminated surfaces	0.4 m (16 in.)

CONNECTIONS

AC power input	Neutrik powerCON TRUE1
AC power throughput	Neutrik powerCON TRUE1
DMX data in/out	3-pin & 5-pin locking XLR
Network data in/out	Neutrik EtherCon

ELECTRICAL

AC power	100-240V nominal, 50/60 Hz
Power supply unit	Auto-ranging electronic switch mode
Idle Power Consumption	77 W (all effects static, zero light output)
Half-cycle RMS inrush current at 230 V, 50 Hz	15.9A

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TECHNICAL SPECIFICATIONS (PRELIMINARY)

TYPICAL POWER AND CURRENT

Typical power data, full intensity at 6500 K:

100 V, 60 Hz.....	5.0A, 500 W, PF 0.99
120 V, 60 Hz.....	4.1A, 500W, PF 0.99
208 V, 60 Hz.....	2.4A, 500W, PF 0.97
230 V, 50 Hz.....	2.2 A, 500W, PF 0.97
240 V, 50 Hz.....	2.1A, 500 W, PF 0.97

Measurements made at nominal voltage with all effects active & LEDs at full intensity. Allow for a deviation of +/- 10%. PF = power factor.

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)

Maximum surface temperature, steady state, at 40° C ambient 53° C (128° F)

Total heat dissipation [calculated, +/- 10%] 1563 BTU/hr

APPROVALS

EU safety EN 60598-2-17 (EN 60598-1), EN 62471, EN 62493

EU EMC EN 55015; EN 55032; EN 55035; EN 61000-3-2,-3; EN 61547

US safety UL 1573

US EMC FCC Part 15 Class B

Canadian safety CSA C22.2 No. 166

Canadian EMC..... ICES-003 Class B, ICES-005 Class B

Australia/NZ RCM

Global CB Certification/IECEE IEC 60598-2-17 (IEC 60598-1)

