

# 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
- 10,5 klm 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

- Power input cable, H07RN-F, 2.5 mm<sup>2</sup>, 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 mm<sup>2</sup>, 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.) ..... P/N 91611786
- Power input cable, SJ00W, 12 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.) ..... P/N 91610173
- Power input cable, SJ00W, 12 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.) ..... P/N 91610174
- Power connector, cable mount, Neutrik TRUE1 NAC3FX-W (female) ..... P/N 91611789

### FLIGHT CASES

- Three-unit flight case for MAC Aura PXL/MAC Allure ..... P/N 91515052  
*\*Please order SIP variant fixtures to obtain the required SIP foam flight case inserts*
- SIP flight case insert MAC Aura PXL/MAC Allure ..... P/N 91611860

### 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](http://www.martin.com)

### 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



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### TECHNICAL SPECIFICATIONS

#### 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, color mix, 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
DMX/RDM Transceiver .....	Opto-isolated RS-485
Ethernet Transceiver .....	10/100Mbit
Fixture software update .....	USB memory device, over DMX link or over Ethernet link

#### OPTICS AND SOURCE

Light source .....	Main Beam LED: 19* 40W RGBW LED; Aura LED: 141*0.3W RGB LED
Max total primary LED engine power ..	Approx.570W
Max total Aura LED engine power .....	Approx.50W
Minimum LED lifetime .....	50,000 hours (to →70% luminous output)
LED refresh rate .....	Beam LED 1200 Hz Aura LED 1200 Hz
Zoom range .....	1:8
Beam angle at half Peak .....	6 ° - 40°
Field angle at one-tenth Peak .....	7° - 59°

#### PHOTOMETRIC DATA

Light engine luminous output .....	19000 lumens
Fixture luminous output:	
Wide beam .....	10500 lumens
Narrow beam .....	8500 lumens
Fixture Center intensity:	
Narrow beam .....	8500 lumens
Wide beam .....	30000 cd
CCT .....	6500 Kelvin
CRI (Color Rendering Index) .....	>73
CQS (Color Quality Scale) .....	85
TM-30 Rf (IES TM-30-15 Fidelity Index) .....	77
TM-30 Rg (IES TM-30-15 Gamut Index) .....	117
TLCI (Television Lighting Consistency Index) .....	61

#### 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 .....	2.4 m (95 in.)

#### CONNECTIONS

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

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### TECHNICAL SPECIFICATIONS

#### ELECTRICAL

AC power .....	100-240V nominal, 50/60 Hz
Power supply unit .....	Auto-ranging electronic switch mode
Maximum total power consumption .....	560 W
Maximum total current at 100-120V .....	6.4A
Maximum total current at 200-240V .....	2.8 A
Idle Power Consumption .....	81 W (all effects static, zero light output)
Half-cycle RMS inrush current at 230 V, 50 Hz .....	15.9A

#### 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)



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## DIMENSIONS

### PHYSICAL

Length	232mm (9.1in.)
Width	410mm (16.1 in.)
Height	516mm (20.3in.) maximum 488.4mm (19.2in.) head straight up
Weight	15.6kg (34.4lbs)

