MAC Aura XIP

WASH LIGHT W/ SMART OUTDOOR PROTECTION & AURA FILAMENTS

SPEC SHEET

MAC Aura XIP is a premium moving head wash light that features a radical aura filament effect. It's Martin's latest addition to the MAC Aura family of workhorse wash lights and the first product in the market to be rated for outdoor use, with close to zero compromises in weight, size, noise levels and aesthetics. It raises the bar for optical quality, featuring an even wash field with soft edges, minimal stray light, high intensity mid-air beams and improved light engine control.

12 Radical RGBW filaments deliver a brighter aura backlight effect as well as the ability to show iconic aura filaments that can also be individually controlled. Full pixel control with video mapping capabilities onto beam, aura or both promise new and exciting eye candy looks for creating intriguing stage effects.

MAC Aura XIP's smart outdoor design combines ingenuity and efficiency by intelligently sealing vital electronics away from the elements while exposing the cooling system for a lighter, quieter and more versatile unit that can be used anywhere, anytime, reinventing the universal indoor/outdoor-rated concept.

Built to be a true workhorse, the extensive feature package of the MAC Aura XIP includes exceptionally quiet operation to benefit theater and other indoor settings. With LED frequency control it emits a flicker-free even wash light, and features green-magenta shift control to match other lights and cameras in its vicinity. The MAC Aura XIP features variable calibrated color temperature control, 200+ built-in FX macros, rapid movement and 6.3 - 50.4° zoom range. RGBW color mixing delivers bright and vibrant colors as well as soft pastels and white tones that are all factory-calibrated using Martin's full gamut color calibration. It offers DMX, Art-Net / sACN / P3 connectivity for multiple control options.

Weighing just 8.9 kg, MAC Aura XIP is the smallest and lightest outdoor-rated wash light in its category, which dramatically reduces transport costs and environmental impact. It also offers easier handling and rigging with handles on the head and base, a battery-powered display and Omega bracket attachment points.

While the MAC Aura XIP offers lighting designers a range of possibilities with its aura filament effect, narrower beam and better wash quality with improved light engine control; rental customers will appreciate a workhorse that is lighter and more versatile with optical improvements and a sealed design, allowing the product to be used virtually anywhere and require less maintenance.

The MAC Aura XIP is truly a wash light workhorse that works equally well in a range of applications; from quiet and demanding theater, broadcast and other indoor applications to brutal working applications such as outdoor festivals and touring.

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FEATURE HIGHLIGHTS

RADICAL NEW AURA FILAMENT EFFECT AND BEAM PIXEL CONTROL

12x RGBW filaments deliver a brighter aura backlight effect, with the possibility to show iconic aura filaments that can also be individually controlled. Featuring pixel control with video mapping capabilities onto beam, aura or both with easy setup mapping and addressing via a Martin P3 controller, the MAC Aura XIP promises new and exciting eye candy looks that create intriguing stage effects.

WORKHORSE VERSATILITY

The MAC Aura XIP is lightweight, compact and silent enough for the most demanding indoor applications such as theater, television and corporate events. While being robust and waterproof for use at outdoor festivals, concerts and events, it breaks the barriers of previous workhorse fixtures with its sealed design requiring less maintenance.

OUTDOOR CAPABLE WITH ZERO COMPROMISE TO INDOOR USE

MAC Aura XIP is the first fixture in its class to feature innovative smart outdoor-proofing technology. The fixture is fully waterproof for weather conditions such as rain, snow, sand or ice with close to zero impact on the fixture's size, weight, output, noise and aesthetics, making it a truly versatile workhorse that can avoid "indoor-only" and "outdoor-only" labels.

OPTICALLY ROBUST

The MAC Aura XIP features remarkable optical upgrades such as a narrower zoom creating a higher intensity beam and less stray light. It has LED frequency control for flicker-free projection in broadcasting and green/magenta shift control over white point improving skin tone optical performance.

CLEAN AND EVEN WASH FIELD

The MAC Aura XIP has an extremely even wash field with zero hotspot and a soft edge to create a better stage wash. The lack of stray light removes the need for beam control accessories such as top hats in many applications. It has the cleanest wash field in its class, emitting rich saturated colors with RGBW color mixing to deliver exceptionally bright and vibrant colors, soft pastels, and white tones.

EASIER HANDLING

The MAC Aura XIP is built to be a workhorse with handles on the head and base and Omega bracket attachments for easier handling and rigging. It also includes a battery-powered control panel on the base for easy fixture addressing in pre-flight. Its sealed design requires less maintenance (as less dust and pollution can enter the product) than IP20 alternatives.

FEATURES

- **Light Engine:** 7 x 60 W RGBW LEDs Beam + 12 x 4 W RGBW LEDs Aura
- **High Output:** 6,000 lumens
- **High Intensity:** 360,000 cd
- **Pixelated Beam:** 7x LEDs
- **Pixelated Aura:** 12x Filaments
- Tight beam and beautiful wash field
- Calibrated using Martin's Full Gamut Color Calibration
- **CTC Control:** 1,000 - 12,850 K
- Green Magenta Shift Control
- Optional tungsten emulation mode
- Variable LED Frequency Control
- More than 200 built-in FX macros with control of foreground color, background color, speed and direction
- Ultra-quiet cooling system
- Smart outdoor rating for any weather condition
- High-speed pan, tilt and zoom
- **Zoom:** 6.3 - 50.4°
- **Control:** DMX, Art-Net, sACN & P3
- **Weight:** 8.95 kg (19.73 lbs)
- **Dimensions:** 338 x 380 x 226 mm

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ORDERING INFORMATION

- MAC Aura XIP in Cardboard (in cardboard box, with cardboard inlay): ..... P/N MAR-90250100HU
- MAC Aura XIP in dual SiP (in cardboard box with dual SiP foam flight case insert): ..... P/N MAR-90250105HU
- MAC Aura XIP white in Cardboard (in cardboard box, with cardboard inlay): ..... P/N MAR-90250110HU

INCLUDED ITEMS

- Two omega brackets with 1/4 turn fasteners for rigging clamp attachment
- SoftLens
- Multi-Language Safety and Installation Manual

ACCESSORIES

TRANSPORT AND STORAGE

- Flightcase for 6 x MAC Aura XIP: .....P/N MAR-91515057
- Additional dual SiP Foam Flightcase Insert for MAC Aura XIP:..... P/N MAR-91611861HU

CONSUMABLES

- CR123A 3-volt lithium battery: ..... P/N 05801011

POWER INPUT CABLES

- Power Input Cable, H07RN-F, 2.5 mm2, bare ends to TRUE1 NAC3FX-W TOP (female), 1.5 m (4.9 ft.):..... P/N 91611797
- Power Input Cable, SJOOW, 12 AWG, bare ends to TRUE1 NAC3FX-W TOP (female), 1.5 m (4.9 ft.):..... P/N 91610173

POWER LINKING CABLES

- Power Relay Cable, H07RN-F, 2.5 mm², TRUE1 to TRUE1, 2.5 m (8.2 ft.):..... P/N 91611796
- Power Relay Cable, SJOOW, 12 AWG, TRUE1 to TRUE1, 2.5 m (8.2 ft.):..... P/N 91610172

POWER CONNECTORS

- Cable Connector, Neutrik powerCON TRUE1 TOP Female:..... P/N 91611789HU
- Cable Connector, Neutrik PowerCON TRUE1 TOP Male:..... P/N 91611788HU

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 Companion Cable (for firmware update over DMX):..... P/N 91616091
- Martin Companion Software (for firmware update over DMX): Free download from www.martin.com

TECHNICAL SPECIFICATIONS

DYNAMIC EFFECTS

Beam Dimmer/Shutter: ..... 0 - 100% continuous dimming, regular and random strobe, instant open and blackout

Beam Dimming Options: ..... Choice of four dimming curves

Beam Color Mixing: ..... RGB, independently variable 0 - 100%

Beam Color Temperature Control: ..... Variable 1,000 - 12,850 K

Beam Tint Control:..... Variable green-magenta shift Δuv -0.05 – +0.05

Beam Virtual Color Wheel: ..... 48 color presets, continuous rotation & random color

Zoom: ..... Motorized with 1:6 zoom ratio

Pan: ..... Motorized 540°

Tilt: ..... Motorized 220°

Beam PixelMapping: ..... Individual RGB control of each of the 7 Beam pixels

Beam P3 Mix:..... Videomapping of fixture with variable crossfade between DMX control and video control

Aura Dimmer/Shutter: ..... 0 - 100% continuous dimming, regular and random strobe effects, instant open and blackout

Aura Dimming Options: ..... Choice of four dimming curves

Aura Color Mixing:..... RGB, independently variable 0 - 100%

Aura Color Temperature Control:..... Variable 1,000 - 12,850 K

Aura Tint Control:..... Variable green-magenta shift Δuv -0.05 – +0.05

Aura Virtual Color Wheel: ..... 48 color presets, continuous rotation & random color

Aura PixelMapping: ..... Individual RGB control of each of the 12 Aura filaments

Aura P3 Mix:..... Videomapping of fixture with variable crossfade between DMX control and video control

Pre-Programmed Effects:..... Two ranges of FX on Beam, Aura or Combination; independent or synchronized/combined

LED Frequency Control: ..... Variable LED PWM control

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TECHNICAL SPECIFICATIONS (Cont.)

CONTROL AND PROGRAMMING

Control Protocols: ..... DMX, RDM, Art-Net, RDM over Art-Net, sACN and P3

Protocol Detection: ..... Automatic

DMX Modes: ..... Compact, Basic, Extended, Ludicrous, XB Standard & XB Extended

DMX Channels: ..... 20, 36, 57, 93, 14 & 25

16-bit Controllable Parameters: ..... Beam & Aura Dimming, Beam Color Mixing, Zoom, Pan and Tilt

Setting and Addressing: ..... Display Menu, RDM, RDM over Art-Net or P3

Local User Interface: ..... Backlit LCD Display with battery-powered operation

Fixture Identification: ..... User-settable ID number

DMX Compliance: ..... USITT DMX512-A

RDM Compliance: ..... ANSI/ESTA E1.20

Art-Net Compliance: ..... Art-Net 1, 2, 3 and 4; including RDM over Art-Net

sACN Compliance: ..... ANSI E1.31 - 2016

Martin P3 Compliance: ..... P3 System Controller Software 5.1.0 or newer

DMX/RDM Transceiver: ..... Galvanic-isolated RS-485

Ethernet Transceiver: ..... 10/100Mbit (with fail-safe bypass)

Firmware Update: ..... Via USB type C memory device, via DMX using Martin Companion or via Ethernet using P3 System Controller

OPTICS

Front Lens Diameter: ..... 196 mm (7.72 in.)

Zoom Range: 1:6

Full Zoom Range at Half Peak (Beam Angle): ..... 6.3° - 35.3°

Full Zoom Range at Tenth Peak (Field Angle): ..... 8.8° - 50.4°

Beam Light Source: ..... 7 x 60 W RGBW LED

Aura Light Source: ..... 12 x 4 W RGBW LED

Max. Total Beam LED Engine Power: ... 296.5 W

Max. Total Aura LED Engine Power: ..... 35.1 W

Minimum LED lifetime: ..... > 50.000 hours (to > 70% luminous output)*

**Figure obtained under manufacturer's test conditions*

PHOTOMETRIC DATA

Light Engine Luminous Output: ..... 11,000 lumens

Fixture Luminous Output Wide: ..... 6,000 lumens

Fixture Luminous Output Narrow: ..... 4,500 lumens

Peak Luminous Intensity Narrow: ..... 360,000 cd

CCT: ..... Variable 1,000 K - 12,850 K (+/- 200 K)

CRI (Color Rendering Index) high output mode: ..... ≥ 71

CQS (Color Quality Scale) high output mode: ..... ≥ 80

TM-30 Rf (IES TM-30-15 Fidelity Index) high output mode: ..... ≥ 78

TM-30 Rg (IES TM-30-15 Gamut Index) high output mode: ..... ≥ 117

TLCI (Television Lighting Consistency Index) high output mode: ..... ≥ 57

Beam LED Refresh Rate: ..... Variable 2,400 Hz - 3,000 Hz and 24,000 Hz mode

Aura LED Refresh Rate: ..... 1,200 Hz

Binning: ..... Tight color and flux binning

Calibration: ..... Full Gamut Color Calibration of Beam and Aura

Color Modes: ..... Extended Color Mode and Calibrated Color Mode

** All Photometric Data measured in steady state (30 minutes warm-up time) at 25°C ambient*

** All Photometric Data measured at 6500 K white*

CONSTRUCTION

Housing: ..... High-impact flame-retardant thermoplastic

Color: ..... Black

Protection rating: ..... IP 54

INSTALLATION

Mounting points: ..... 2 pairs of 1/4-turn points for 106 mm (4.17 in.) center-to-center omega brackets and single M12 threaded hole for rigging clamp

Location: ..... Indoor or Temporary Outdoor use

Orientation: ..... Any, except with display facing upwards in outdoor application

Minimum distance to combustible materials: ..... 0.2 m (7.87 in.)

Minimum distance to illuminated surfaces: ..... 1.0 m (39.37 in.)

CONNECTIONS

AC mains power in/thru: ..... Neutrik powerCON TRUE1 TOP

DMX and RDM data in/thru: ..... Neutrik 5-pin locking XLR TOP

Ethernet (Art-Net, sACN and P3) in/thru, including fail-safe bypass: ..... Neutrik etherCON TOP

Firmware from flash memory: ..... USB 2.0 type C port

ELECTRICAL

AC power: ..... 100-240 V AC nominal, 50/60 Hz

Power Supply Unit: ..... Auto-ranging electronic switch mode

Typical half-cycle RMS inrush current at 230 V, 50 Hz ..... 7.0 A

Typical earth-leakage current: ..... 0.43 mA

Power Factor: ..... 0.99 @ 100 V / 120 V, 0.97 @ 208 V / 230 V / 240 V

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TECHNICAL SPECIFICATIONS (Cont.)

ELECTRICAL (Cont.)

Max current draw: ..... 3.9 A @ 100 V / 120 V ,
1.8 A @ 208 V / 230 V / 240 V

Typical current draw: ..... 2.9 A @ 100 V , 2.4 A @ 120 V ,
1.4 A @ 208 V , 1.3 A @ 230 V ,
1.2 A @ 240 V *

POWER CONSUMPTION

Maximum: ..... 340 W

Typical: ..... 292 W *

Idle: ..... 47 W *

Hibernation ..... 32 W *

** Measurements made at nominal voltage. Allow for a deviation of +/- 10%.*

Typical: full output white, no effects moving, regulated fan speed.

Idle: no output, no effects moving, regulated fan speed.

Hibernation: no output, motors de-energized, fans stopped, wake-up procedure to re-use fixture.

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: ..... 60° C (140° F)

Total heat dissipation (calculated, +/- 10%): ..... 972 BTU/hr.

ACOUSTIC DATA

Sound Pressure Level (LpA) @ 1 m (default regulated fan mode, full output): ..... 34.4 dB(A)

Sound Pressure Level (LpA) @ 1 m (constant fan mode ultra low): ..... 25.2 dB(A)

ENVIRONMENTAL

RoHS: ..... Compliant

REACH: ..... Compliant

WEEE: ..... Compliant

Proposition 65: ..... Compliant

Efficacy (max output): ..... 21.3 lm/W

LWR*: ..... 670 lm/kg (304 lm/lbs.)

LWR = Lumen-to-Weight Ratio

APPROVALS

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

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

EU EMC: ..... EN 55015; EN 55032; EN 55035; EN 61547; EN 61000-3-3

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

United Kingdom: ..... UKCA

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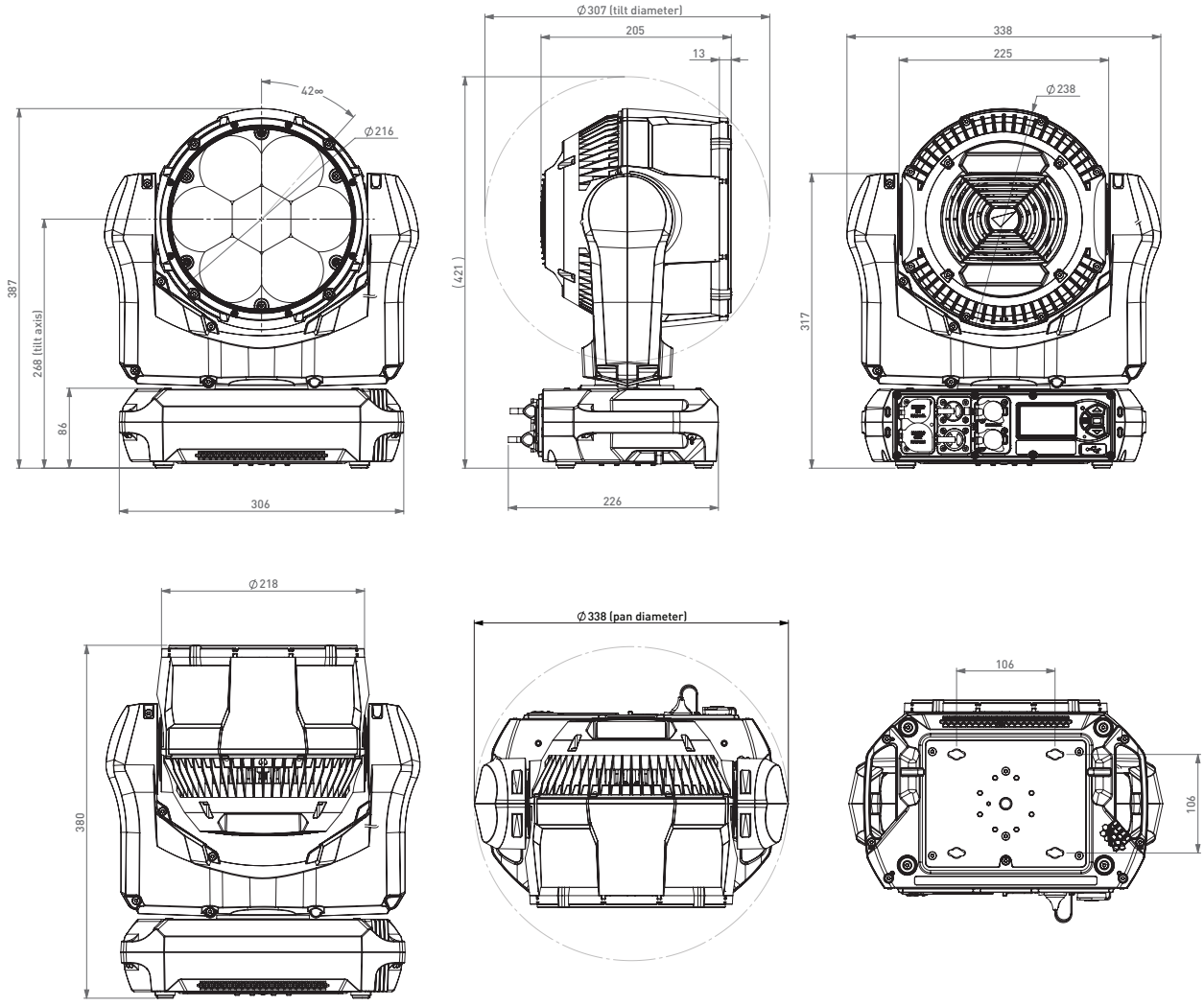
DIMENSIONS

PHYSICAL

Width (across yoke): ..... 338 mm (13.31 in.)
Width (base): ..... 306 mm (12.05 in.)
Height (head straight up): ..... 380 mm (14.96 in.)
Height (maximum): ..... 421 mm (16.57 in.)

Depth (head): ..... 205 mm (8.07 in.)
Depth (base): ..... 226 mm (8.90 in.)
Minimum center-to-center distance in side-by-side installation: ..... 350 mm (13.78 in.)
Weight: ..... 8.95 kg (19.73 lbs)



All dimensions are in mm

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