# **AXON EQ**

Approach Centerline, Siderow LED Elevated, Unidirectional



### **Compliance with Standards (current version)**

FAA AC 150/5345-46 and FAA Engineering Brief No. 67,

ETL certified

ICAO Annex 14, Volume 1

NATO STANAG 3316

**IEC** 61827

EASA CS-ADR-DSN

STAC PRO/STAC/SE/ENIS/600S

UK CAP 168UFC 3-535-01Canada TP 312Australia MOS 139

CE

UKCA

#### Uses

#### ICAO & FAA

- Approach Centerline & Cross Bar
- Approach Siderow

#### **Features and Benefits**

#### Efficiency

- AXON EQ features ILCMS remote and onboard environmental sensors for the LINC 360 system, enabling high data capacity and radio degradation resistance. This results in top-notch communication platform for control, status, and health/usage monitoring.
- AXON EQ can be upgraded with plug-in modules and configured via LINC 360 or CORTEX CLOUD for additional features.
- AXON EQ version available with optional Cellular monitoring module.
- Option of low intensity omnidirectional approach.
- Infra Red for EFVS / NVG compatibility. Highly configurable to suit operational requirement.
- LED is PWM-modulated at 400 Hz to optimize performance and eliminate human flicker perception, regardless of brightness levels.

- Lights are fully dimmable and conform to FAA EB 67D and ICAO Annex 14 dimming curve
- Dedicated aiming device allows easy leveling and azimuth aiming of the light.
- Central barrel screw with two opposing locking screws ensure easy and stable leveling.

#### Sustainability

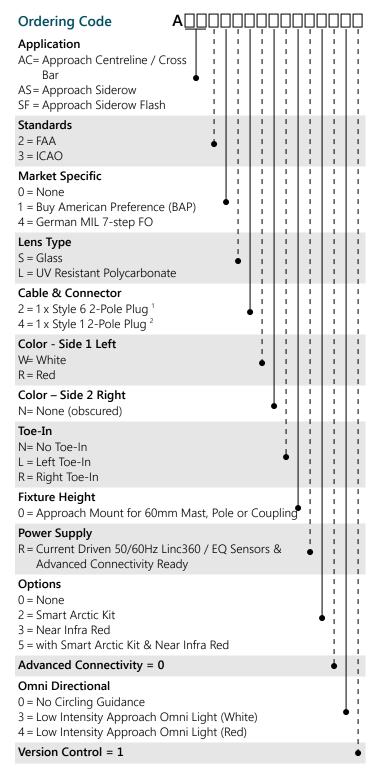
- Independent Product Carbon Footprint calculation to support in product lifecycle analysis.
- Modular housing maximizes parts commonality and enables midlife upgrades for enhanced functionality instead of requiring a new product.
- Options for either glass or UV-resistant polycarbonate outer lens.
- A single fixture family covers all elevated approach, runway and stop bar applications.
- IP68 & IP69K rated enclosure designed for harsh environments; all fastenings are stainless steel.
- This product is a direct replacement for ADB Safegate LED elevated fixtures, thanks to its mechanical and photometric backwards compatibility.
- Finishing: Stainless steel hardware, aluminum body, phosphated aviation yellow electrostatic polyester powder coating.
- Based on the LED manufacturer's ratings & calculations, we guarantee a LED life expectancy L70 higher than 50,000 operation hours
- Aerodynamic and lightweight weight designed to withstand heaviest jet blast.

#### Safety

- Identifiable daytime recognition, with large surface area coloured optical module surround.
- Modular mechanical design consolidates and strengthens product components for faster, easier maintenance and reconfiguration.
- SMART Arctic kit with option of heater output down to 4.1A.
- Failed-LED Detection as required by Engineering Brief 67D.
- The product meets the lightning protection criteria of ANSI/ IEEE C62.41-1991 and FAA Eng. Brief 67's Location Category C2 requirements, which outlines a 1.2/50 - 8/20 μs combination wave, peaking at 10,000 V and 5,000 A.



## **AXON EQ**



- <sup>1</sup> 2 Individual Wires with Separate Earth
- <sup>2</sup> Jacketed SO 2 Core Cable with Separate Earth

## **Power Supply**

- AXON EQ with integrated ILCMS with OFDM technology for use with LINC 360 system
- AXON EQ Optional Cellular monitoring, future upgradable and feature configurable

## **Toe-in Coding**



Toe-in determined by standing on top of the light fixture looking in the direction of the beam.

#### Maintenance and Installation

The light is made of a body, with an approach mount for 60mm mast or frangible coupling for ground mounting.

## **Operating Conditions**

Operating temperature  $-60 \,^{\circ}\text{C}$  to  $+55 \,^{\circ}\text{C}$  /  $-76 \,^{\circ}\text{F}$  to  $+131 \,^{\circ}\text{F}$ Storage temperature  $-60 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$  /  $-76 \,^{\circ}\text{F}$  to  $+176 \,^{\circ}\text{F}$ Humidity Up to 100%





## **Dimensions and Weight**

 Dimensions
 TBC
 TBC

 Weight
 Min 2.7 kg / 6 lb (8 in)
 TBC

## **ANNEX**

#### Elevated Approach Fixtures Without Arctic Kit (Heater)

Fixture type	Fixture load	Isolation transformer		CCR load
		Wattage	Load	CCIVIOGU
Approach Centreline / Cross Bar	29 VA			
Approach Side Row	26 VA			

## Additional Overhead VA per Function

Fixture type	Additional fixture VA	
SMART Arctic Kit	5 VA	
Circling Guidance - White	4 VA / 8 VA	
Circling Guidance – Red	3 VA / 6 VA	
Infra Red	1.5 VA	
Cellular Module	5 VA (4G/5G wireless module)	

For more information about the product, including manuals and certifications, please see the Product Center on the ADB SAFEGATE website: www.adbsafegate.com.

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