

Meets traditional airfield requirements for taxiways and general purpose marking.

- •ICAO and FAA compliant
- •Greater than 10 cd of intensity
- •Dusk-to-dawn or on-demand operation
- •NVG compatible IR LEDs available

# Applications

Taxiway and apron edge Construction, barricades and fences Temporary or permanent markings Helipads Hazard marking

## **Compliant Output**

FAA L-861T and ICAO Annex 14. The A650 Wireless Blue is compliant with the requirements of ICAO Annex 14, Volume 1, Sixth Edition (2013).

### **Easy Installation and Relocation**

No specialized work crew required. Lights are immediately operational with limited air traffic disruption. The A650 can be quickly relocated for temporary or emergency applications.

### Self-contained and Low Maintenance

All components are incorporated within a compact, stand-alone unit. The A650 features a replaceable battery pack that extends the service life beyond five years, reducing the total cost of ownership and resulting in significant cost savings.

### **Unprecedented Reliability**

Energy Management System (EMS) monitors and adapts the brightness to environmental conditions for consistent operation and long life under the toughest conditions.

### **Designed and Tested to Tough Industrial Standards**

MIL-STD-202G Humidity, Immersion, Vibration, Shock; MIL-STD-810G: Solar Radiation, Salt Fog; EN 60945: ESD, EMI, EMC; IP68; L70. The A650 is acceptable for barricade and construction applications at Commercial Part 139 Airports under FAA Advisory Circular AC 150/5370-2E.

### **User Friendly**

Easy configuration and programming options including: on-board user interface, infrared remote and device manager software through USB connection or optional wireless control system offering secure 900 MHz.





Wireless



**Non-wireless** 

**REPRESENTED IN YOUR REGION BY:** 

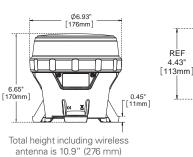


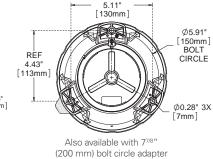


SPECIFICATIONS High-efficiency cells with bypass and blocking diode function Maximum power point tracking (MPPT) for optimal energy Solar Panel collection Tool-less, replaceable and recyclable best-in-class battery pack with extreme temperature range Battery status feedback of Good, Charge or Bad (Replace) Battery High power LED Light Source Colour-specific temperature corrected LED drivers provide consistent intensity under all operating conditions Greater than 10 cd intensity, steady-on (see photometric plots) Intensity 256+ (non-wireless Flash Patterns Steady-on mode and flash patterns (wireless) Premium grade UV resistant, polycarbonate/polysiloxane co-Construction polymer body and lens material Double O-ring sealing with waterproof vent Blue, Red, Yellow, Green and White Colours ICAO and SAE25050 (FAA) compliant chromaticity NVG-compatible infrared (IR) LEDs (wireless only) -43 to 51 °C (-45 to 124 °F) ambient temperature The A650 will function up to 190 °F (88 °C) internal and surface **Operating Temperature** temperatures Storage Temperature -43 to 80 °C (-45 to 176 °F) Colour Indicator Yes, FAA Eng. Brief 67 compliant Weight 1.6 kg (3.5 lb) Wind Loading 644 kph (400 mph) When enabled, ALC will dynamically reduce brightness in Automatic Light Control response to unusually low amounts of sunlight to ensure (ALC) continued operation 900 MHz ISM (wireless) Radio Receiver Range Up to 4 km (2.5 m) (wireless)

DIMENSIONS

SIDE VIEW

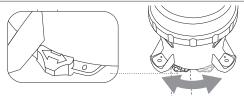




**BOTTOM VIEW** 

REF

SWITCHED VIEW\*

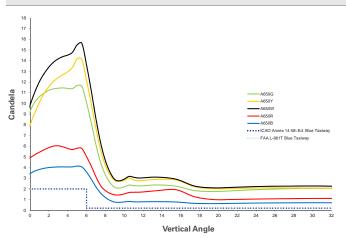


Specifications subject to local environmental conditions. Specifications may be subject to change. US and International patents apply. Other patents pending.

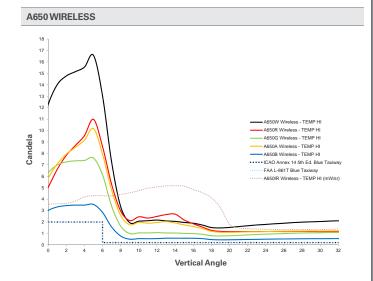
"Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.

#### PHOTOMETRICS

A650 NON-WIRELESS



Note: Intensity dependent on location. Based on equatorial location of 12-hour night duration and steady-on (001) flash code.



CONFIGURATION			
MODEL	OUTPUT <b>V</b>	SWITCH V	CONTROL V
A650	RED GREEN WHITE YELLOW BLUE	NON-SWITCHED SWITCHED*	NON-WIRELESS WIRELESS*

\*A650 Wireless version must have switch.



The management system governing the manufacture of this product is ISO 9001:2008 certified.

Carmanah is a Canadian public corporation - TSX:CMH © 2015, Carmanah Technologies Corp. Document: AVIA\_A650\_Spec\_Sheet\_RevG