



Applications

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

- Easy installation and relocation: no specialized work crew required, limited air traffic disruption and lights are immediately operational. The A650 can also 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 also 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.
- Intelligent settings: the first solar product to incorporate intelligent deployment location settings that allow the A650 to be tuned to its location, protecting it against improper configuration.
- Unprecedented Reliability: microprocessor 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 toughest 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. The A650 Wireless Blue is compliant with the requirements of ICAO Annex 14, Volume 1, Fifth Edition dated July 2009.
- 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

CE SFC



REPLACEABLE AND RECYCLABLE BATTERY PACK DUSK-TO-DAWN OR ON-DEMAND OPERATION NVG-COMPATIBLE IR OPTIONS

FEATURES:

INTELLIGENT DEPLOYMENT LOCATION SETTINGS

THE A650 IS COMPLIANT WITH FAA/ICAO

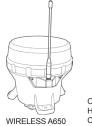
UP TO 10 CD OF INTENSITY

PHOTOMETRICS TAXIWAY SPECIFICATION AND



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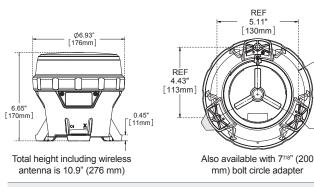
HANDHELD CONTROLLER

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TECHNICAL FEATURES AND SPECIFICATIONS				
Solar Panel	High-efficiency cells with bypass and blocking diode function. Maximum power point tracking (MPPT) for optimal energy collection.			
Battery	Tool-less, replaceable, and recyclable best-in-class battery pack with extreme temperature range. Battery status feedback of Good, Charge or Bad (Replace).			
Light Source	High power LED. Colour-specific temperature corrected LED drivers provide consistent intensity under all operating conditions.			
Intensity	Up to 10 cd intensity, steady-on (see photometric plots).			
Flash Patterns	256+ (non-wireless)			
	Steady-on mode and flash patterns (wireless)			
Construction	Premium grade UV resistant, polycarbonate/ polysiloxane co-polymer body and lens material. Double O-ring sealing with waterproof vent.			
Colours	Blue, Red, Yellow, Green and White. ICAO and SAE25050 (FAA) compliant chromaticity. NVG-compatible infrared (IR) LEDs (wireless only)			
Operating Temperature	-45 to 124 °F (-43 to 51 °C) ambient temperature. The A650 will function up to 190 °F (88 °C) internal and surface temperatures.			
Storage Temperature	-45 to 176 °F (-43 to 80 °C)			
Colour Indicator	Yes, FAA Eng. Brief 67 compliant.			
Weight	3.5 lb (1.6 kg)			
Wind Loading	400 mph (180 m/s)			
Automatic Light Control (ALC)	When enabled, ALC will dynamically reduce brightness in response to unusually low amounts of sunlight to ensure continued operation.			
Radio Receiver	902-928 MHz FHSS (wireless)			
Range	Up to 4km (wireless)			

TECHNICAL DRAWINGS AND DIMENSIONS

SIDE VIEW



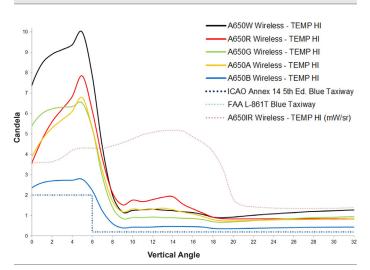




PHOTOMETRIC PERFORMANCE A650 NON-WIRELESS 10 A650G A650Y A650W A650R A650B ·····ICAO Annex 14 5th Ed. Blue Taxiway ----- FAA L-861T Blue Taxiway Candela 6 8 10 12 14

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

A650 WIRELESS



CONFIGURATION					
MOD	EL	OUTPUT V	SWITCH V	CONTROL V	
A65	D	RED GREEN WHITE YELLOW BLUE	NON-SWITCHED SWITCHED*	NON- WIRELESS WIRELESS*	

*A650 Wireless version must have switch.

Specifications may be subject to change

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US Patent No 6,573,659, Other patents pending. "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.

BOTTOM VIEW

Ø5.91" [150mm] BOLT

CIRCLE

Ø0.28" 3X [7mm]