

A704-5 Handheld Controller



900MHz Radio Transceiver Antenna
Allows for control of multiple groups of lights.

Backlit Controller Keypad
LED indicators with adjustable intensity allow for maximum visibility day and night.

VHF Input
Controller can be interfaced with a VHF receiver for pilot activated lighting.

Rugged Weatherproof Design
Tested to IP 67, and able to operate in temperatures ranging from -40°C to +85°C.

AC Input
Controller can be plugged into AC outlet for charging or an external power supply.

A704-5 Handheld Wireless Controller shown with A704-5 wireless airfield light and night vision goggles (not included)

Airfield Lighting Control from the Ground or Air

Carmanah's new A704-5 Handheld Wireless Controller allows full remote control of any number of Carmanah's A704-5 solar-powered LED airfield lights. Using a secure, 256-bit encrypted 900MHz signal, the controller reliably communicates with the lights over a range of up to 4 kilometers. The controller's rugged LED-backlit keypad offers three backlighting intensity settings for easy use day or night.

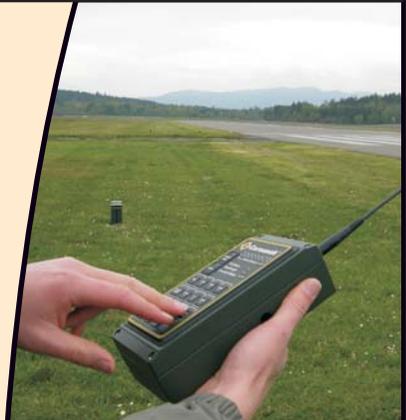
Carmanah's Handheld Wireless Controller contains a radio modem, supporting electronics (based on the MSP430 processor), a weatherproof keypad and LED indicators. It also supports:

- An external interface suitable for connecting to an off-the-shelf, stand-alone aviation band VHF receiver, to facilitate pilot-controlled lighting operation, also referred to as radio control of airfield lighting or ARCAL mode.
- An external serial interface (military-style connector) for future applications with sophisticated laptop control

Features include:

- The ability to withstand aggressive use and extreme environments – tested to IP 67 and operates reliably in temperatures ranging from -40° to 85°C
- The ability to operate on a continuous basis for 24 hours on a single charge
- Powered by a rechargeable lithium-ion battery (included); recharges via an AC/DC wall plug
- LED-backlit keypad for clear visibility day or night

Compact, lightweight and durable, Carmanah's Handheld Wireless Controller is designed to withstand extreme temperatures and meets the environmental requirements of MIL-SPEC-810.



A704-5 Handheld Wireless Controller



A704-5 Wireless Airfield Light

CHANGE THE WORLD WITH US™



A704-5 Handheld Controller



SPECIFICATIONS

OPERATION

Transmit power	500mW or 1W
Max. Range ¹	4km
Operating temperature range	-40 to + 85C

CONSTRUCTION

Housing	Die cast aluminum
Dimensions	4" X 8" X 3" (without antenna)
Weight	3 lb
Antenna	1/2 wave dipole, removable
Keypad	Variable intensity LED backlit, silicone
Waterproof	Tested to Condition B, MIL-STD-202F, Method 104A, immersion

BATTERY

Type	SAFT Lithium ion, MP long cycle life series, 3.75V, 5300mAh
Continuous use (1 operation/min)	12h
Standby	330h
Long Term Storage Without recharging	1250h
Recharge time	6h

For more information about Carmanah's Handheld Wireless Controller or A704-5 solar-powered LED airfield light, please contact our Aviation Lighting Division.

¹ 1W version. Exact range depends on local RF conditions.
All specifications are subject to change without notice.

