

# MID WAVE INFRARED SIGNAL BEACON

## FOR LOCATING IN DENIED OR CONTESTED ENVIRONMENTS

Allows operators to covertly report and signal their location day or night while remaining completely invisible to eyes, NVG's, and commercial cameras or sensors. Detectable at extreme distances.



## FEATURES

Ideal for locating individuals or equipment from air or space through the noise of the battlefield. The MWIR Beacon provides a waterproof, covert (not visible to eye, NVG, SWIR, LWIR sensors), deployable signaling system that enables communication, location, rendezvous, and extraction of personnel operating on land or water where the operating environment might be denied or contested. The MWIR Beacon is small enough to mount easily to personnel, equipment, poles, and ground equipment and is visible to air assets using cooled MWIR sensors from low altitude up to low earth orbit. The MWIR beacon forever changes how we conduct search, identify assets and track movement on the battlefield.

## PRODUCT DESCRIPTION

Description	Handheld covert beacon
Emission	Mid Wave Infrared (3-5um)
Quantity	1 Each

## CONSTRUCTION

Quantum Cascade Laser	QCL 4.05/4.6um
Housing	Aluminum/ Sapphire Crystal

## PHYSICAL PROPERTIES

### OPTICAL

IR Wavelength	MWIR (3-5um)
Detection Range	>50 NM (30k feet AGL) and low earth orbit Visible to sensors day and night
Compatibility	Cooled MWIR sensors
Run Time	8+ hours continuous (uses 123 batteries)

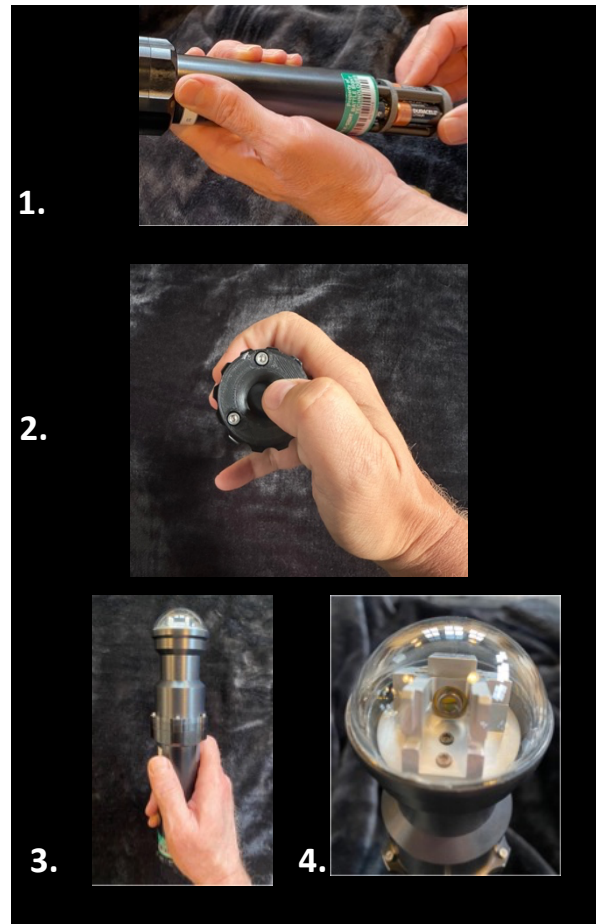
### MECHANICAL

Height	228.6 mm (9 Inches)
Width	44.5 mm (1.75 Inch)
Weight	715 Grams (25.2 ounces)
Surface	Tactical black oxide
Operation	Easy push On/Off

### ENVIRONMENTAL

Immersion	Waterproof 3 meters for 30 minutes
Operating Temperature	-17°C to 70°C
Safety	Class 1 eye safe

## OPERATING INSTRUCTIONS



**STEP 1.** Remove threaded end cap from device and insert 123 battery carriage. Replace end cap securely.

**STEP 2.** Holding collar firmly in one hand, twist the bottom to the right (clockwise) to the "ON" position. Table inside sapphire dome will rotate indicating operation has commenced.

**STEP 3.** Hold device aloft or anchor on the ground with clear sapphire dome oriented up.

**STEP 4.** Laser signal rotates 360 degrees at 1 Hz

See the MWIR Beacon in action - <https://youtu.be/IHYNmEIo8Qk>



Patent Pending.

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