

# McQ RANGER® Surveillance Sensor

McQ RANGER® is a small, low cost, easily deployable surveillance sensor that accurately detects and classifies personnel, vehicles, watercraft, and aircraft to extended ranges.

McQ RANGER®  
Model RA-1001



McQ RANGER® SAT  
Model RA-1103



## McQ RANGER® Features

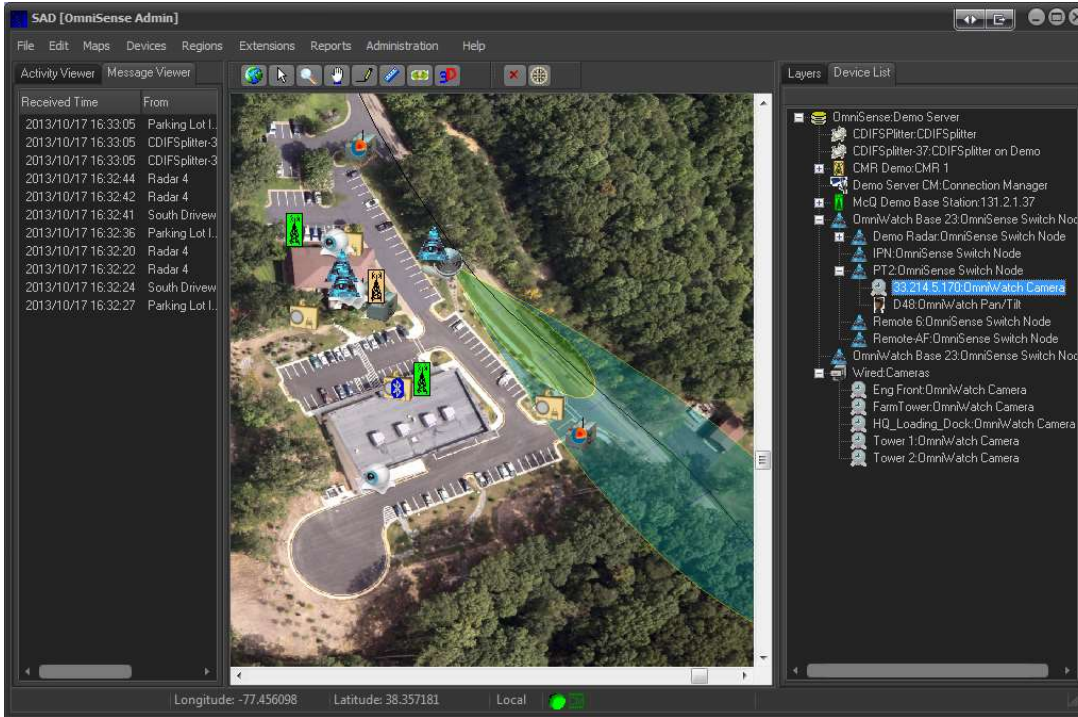
- Multi-modal sensing capability
  - Sensitivity levels configurable for mission
  - Rural Mode for long range performance
    - Seismic People and Vehicles
    - Acoustic People and Aircraft
  - Urban Mode for noisy environments
    - Seismic People
    - Acoustic Speech
    - Magnetic Direction of Travel
- Two variants for communications
  - Standard RANGER: McQ 900 MHz TNet
  - RANGER SAT: Iridium Short Burst Data
    - Detection capability from anywhere
- GNSS Receiver (GPS, Galileo, GLONASS)
- AES 128 or 256 bit Encryption available
- Supported by TAK and other 3<sup>rd</sup> party displays
- 30+ day life (mission dependent)
- IP67 waterproof enclosure

## Applications

- National Border Areas
- Oil or Gas Pipelines
- Electric Distribution Networks
- Parks and Recreational Areas
- Government Limited Access Areas
- Private Property
- Military and Law Enforcement



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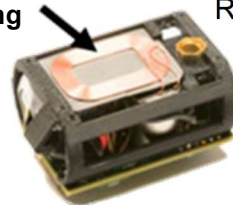


Map-based displays for PC and Android provide sensor positions, real-time detection data, and command and control.

Specifications	McQ RANGER®	McQ RANGER® SAT	Units
<b>RF Communications</b>	<b>McQ TNet</b>	<b>Iridium SBD</b>	
Frequency Range	902 to 928	1616 to 1626	MHz
Transmit Power	1	1.6	W
Antenna Gain	2 dBi	2.8 dBic	
<b>Dimensions</b>			
Length	72.1	80.8	mm
Width	51.3	90.7	mm
Height (body)	33.5	34.3	mm
Height (antenna connector)	44.0	38.9	mm
Weight	145	285	g
Operating Temperature	-20 to 65	-20 to 65	°C
IP Rating	67	67	

Internal batteries are recharged with wireless charging pads.

**Inductive Charging Coil**



## Part Numbers

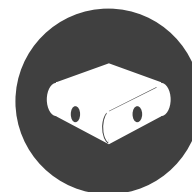
RA-K1001 McQ RANGER® Sensor Kit  
 RA-K1103 McQ RANGER® SAT Sensor Kit



Tough sensors for an insensitive planet  
 An ISO 9001:2015 Registered Company

Specifications may change due to product enhancements. For more information on any of our products or services please visit our website: [www.mcqinc.com](http://www.mcqinc.com).

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