



## Navtech Radar CIR sensor



### Overview

Navtech Radar's OEM sensor is a compact, light-weight, fully ruggedized sensor that has been specifically developed for applications in adverse environments and mission critical applications. Capable of providing high-resolution imaging in all weather, lighting and environmental conditions, the versatile sensor can be used for a variety of applications, from measurement and ranging to anti-collision and obstacle detection. The 360° scanning sensor enables remote or automated operation 24 hours a day.

Its robust design is vibration, heat and impact resistant to cope with operation in demanding environments. Radar is unaffected by external conditions such as heavy rainfall, fog, thick dust storms or complete absence of light, making it a reliable solution for applications where visibility might be compromised. The sensor can be mounted at any angle for optimum performance.

The sensor can be easily integrated into any software package, requiring only a power and Ethernet connection to transfer raw data that can be interpreted to suit the user's needs. The option of on-board processing allows for minimal infrastructure and bandwidth requirements.

With a 5-year maintenance interval, regular cleaning and maintenance are unnecessary in most environments. Servicing is straightforward and can be carried out in situ by trained users.

### Benefits

- 360° scanning capability
- 24/7 operation in all weather, lighting and environmental conditions
- Zero maintenance or cleaning with a 5-year service interval
- High-resolution imaging
- Easy to integrate with other equipment using Software Development Kit
- Proven to withstand extreme temperatures, vibrations, impact, dust, debris and water ingress
- Web-based user interface allows for remote monitoring
- Option of on board processing reduces infrastructure and bandwidth requirements
- Compact design allows for easy shipping, handling and installation

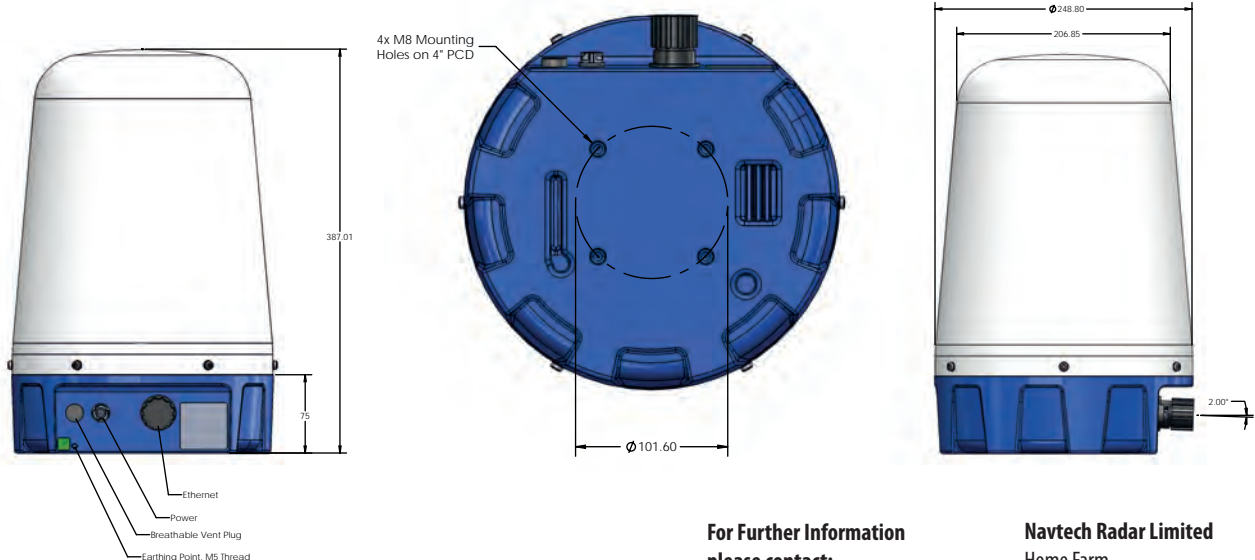


# Technical Specifications

Capabilities	CIR sensor		
Maximum Range (radius)	200m	50m	
Range Resolution	25cm	6cm	
Beamwidth-Azimuth	1.8°		
Beamwidth-Elevation	1.8°, with a 25° cosec fill-in option		
Scan Rotation Rate	1Hz	2Hz	4 Hz
Update rate (per second)	400	800	1600
Bandwidth	3mbps	6mbps	12mbps
Field of View	360°		
Interface	1Gbps Ethernet		
Supply Voltage	24 Volts DC		
Power Consumption	18 Watts		
Mass	6Kg		
Operating Frequency	76 - 77 GHz		
Environmental	IP 67 BS EN 60068-2-52:1996 Test Kb Severity 3		
Compliance	CE Marked EN 301 091-2 V1.3.2 EN 301 489-3 V1.4.1 EN 301 489 V1.9.2 IEC 60950-1 IEC 60950-22		
Vibration Resistance	3G over 5-1000Hz frequency		
Operating Temperature	-20 °C to + 60 °C		

\*Dedicated IP network recommended.

Note: Dimensions measured in mm.



For Further Information  
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