



**TELEDYNE
DEFENCE**

A Teledyne Technologies Company

PHOBOS
Low Cost Tactical Threat Warning
System
QR020



Features

- 2.0 – 18GHz Instantaneous Frequency Range
- 4 Switched Ports Providing 360° Coverage
- Network Enabled
- Very Low Power Consumption
- Hand Held Display Device
- Very Small Size
- Low Cost

Applications

- UAVs
- AFVs
- Light Utility Aircraft
- Fast Patrol Craft
- Remote Sites

Product Description

The Phobos tactical threat warning system from Teledyne Defence Limited (TDL) comprises a state of the art high sensitivity radar warning receiver and a highly portable hand held display device. The combination of these two elements provides the user with exceptional detection performance whilst delivering true tactical flexibility.

The system design utilises next generation de-interleaving and emitter identification processing coupled with TDL established measurement techniques to ensure outstanding performance and exceptional reliability.

4 switched ports provide instantaneous quadrant direction finding and full 360° coverage whilst the use of MIL-STD 2525 symbology ensures ease of object recognition. The hand held display utilises a windows CE HMI base platform and benefits from full colour VGA polar display. Both visual and audio warning facilities are also a feature of the hand held unit.

The TDL Phobos, has been engineered to ensure that weight, physical size and power consumption have all been kept to a minimum and Phobos offers significant reduction of each. In turn, design for manufacture has been a key driver delivering the QR020 at an attractively low cost base.

Please contact the sales team for further information.

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Specification

Frequency Range:	2.0GHz to 18GHz	
Coverage	360°	(4 switched 90° sectors)
Frequency Resolution	25MHz	(,15MHz rms accuracy)
Amplitude Resolution	0.2dB	
Sensitivity	-57dBm	
Dynamic Range	62dB 42dB	(Auto attenuation selected (Auto attenuation off)
Minimum Pulse Width	75nS	(maximum pulse width of 650pS / CW)
Recovery Time	500nS Max	
Pulse Density	> 1 million pulses per second	
Library Capacity	>5000 emitter mode lines (capable of expansion)	
Track Table	>500 simultaneous tracks (capable of expansion)	
Track Display	500 simultaneous displayed (30 with a handheld PDA display)	
Response Time	<1 second from antenna to display	
DC power	9 to 36V dc	
Power Consumption	24W typical	(in full operating mode)
Standby Mode	<10W	(low power standby mode)
Size	190 x 150 x 43mm	(Volume ,1.25 litres)
Weight	1.6kg	