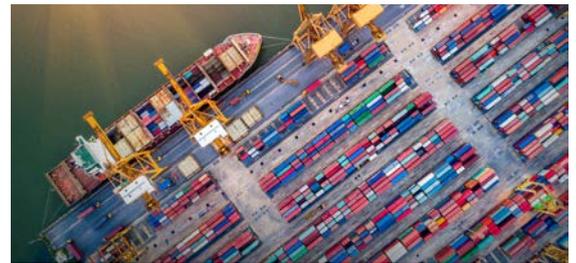*tyco*

Data Sheet

Tyco Radar Detection for Enhanced Perimeter Security

Key Features

- Up to 1000 meter range enables quicker threat detection
- Auto PTZ slew-to-cue to point pan/ tilt/zoom (PTZ) cameras to a targeted location
- Low false alarm rate
- Extreme power efficiency at less than 4w
- Easy installation with less hardware and integrates with various VMS platforms
- Works in all weather and lighting conditions

Low-cost Perimeter Security Solution Improves Surveillance

An ideal answer for advanced perimeter security needs, Tyco Radar Detection offers long-range protection, which means quicker detection of breaches for areas requiring upgraded perimeter safety, such as power plants, transportation hubs, critical infrastructure and other government, industrial and commercial sites. Tyco Radar Detection is an end-to-end site solution providing a cost effective integration with existing video management systems.

Superior Performance

With a high level of power efficiency, on-board signaling and processing, and superior performance in all weather and lighting conditions, Tyco Radar Detection is a site solution that ensures 24/7 perimeter security coverage for sites of all sizes. Using its slew-to-cue capabilities, the radar can point pan /tilt /zoom (PTZ) cameras to a targeted location for improved surveillance. The radars are available with 250, 500, and 1,000-meter range sensors, with accessories and management software also available for purchase.

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Powerful Integration Capabilities

Tyco Radar Detection easily integrates with American Dynamics VideoEdge video surveillance software. This scalable software solution enables the user to leverage high-performance video streaming, audio and analytic metadata. It also offers increased versatility for performance, budget and configuration preferences including chassis flexibility, RAID options, hard drive types and sizes, and redundancy. Tyco Radar Detection can also integrate with exacqVision software, providing an easy-to-use, flexible and scalable solution that offers video analytics for license plate recognition, heat mapping and intrusion detection. With exacqVision, the user can effectively monitor video, audio and data in real time.

Easy Installation

Tyco Radar Detection has low power consumption, PoE connection, no moving parts and wide coverage in azimuth and elevation which makes it simple to install, cost-effective and highly reliable. Keeping installation and maintenance costs low, as well as reducing the potential for user error, makes this an ideal choice for any size application. This device also has a built-in tracker enabling wireless, solar powered installation for further cost savings.

Ensure Reliability and Business Continuity with a Cybersecurity Program

The Tyco Radar Detection has been designed to be resilient against Cyber threats. Our products are gated, analyzed, tested and required to meet or exceed the rigorous standards of the Johnson Controls Cyber Solutions Product Security Program for every consecutive release. This holistic approach is aimed at providing peace of mind to our customers. Our security mindset begins at initial design concept and is supported through deployment, including rapid incident response to meet comprehensive and evolving cybersecurity environments.

Specifications

	250m	500m	1000m
Sensor type	High resolution solid state ground-based radar	High resolution MIMO digital beam-forming radar	High resolution MIMO digital beam-forming radar
Frequency	C-Band	C-Band	C-Band
Detection range	Up to 250m	Up to 100m Drone, 400m Human & 600m Vehicle / Boat	Up to 200m Drone, 800m Human & 1,000m Vehicle / Boat
No moving parts	MTBF of 50,000 hours	MTBF of 50,000 hours	MTBF of 50,000 hours
Built-in tracker	Extremely low required bandwidth (<1kbps)	Extremely low required bandwidth (<1kbps)	Extremely low required bandwidth (<1kbps)
Scan rate	2 scans per second	2 scans per second	2 scans per second
Azimuth coverage	120°	120°	100°
Elevation coverage	30°	30°	30°
High Range accuracy	<1.0m	<1.0m	<1.0m
Azimuth accuracy	1°	1°	1°
Target detection speed	0.3 - 30m / sec	0.3 - 30m / sec	0.3 - 30m / sec
Power	48v, 3.5W	48v, 3.5W	48v, 3.5W
System interface	Ethernet, POE - IEEE 802.3at Type 1 (802.3af) & Type 2	Ethernet, POE - IEEE 802.3at Type 1 (802.3af) & Type 2	Ethernet, POE - IEEE 802.3at Type 1 (802.3af) & Type 2
Dimensions (W x H x D)	250 x 150 x 59 mm 9.8 x 5.8 x 2.3 in	250 x 150 x 59 mm 9.8 x 5.8 x 2.3 in	250 x 300 x 80 mm 9.8 x 11.8 x 3.15 in
Weight	1.5 Kg / 3.3 lbs	1.5 Kg / 3.3 lbs	3 Kg / 6.6 lbs
Environmentals	IP67	IP67	IP67

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Approvals	FCC, UL 60950	FCC, UL 60950	FCC, UL 60950
Operating temperature	–45°C to +85°C –49°F to 185°F	–45°C to +85°C –49°F to 185°F	–45°C to +85°C –49°F to 185°F

Tyco provides network video recorders and video management systems from American Dynamics and Exacq, offering the foundation for a fully integrated video system. Purchasing each aspect of the solution from the same vendor reduces potential product lifetime issues while streamlining setup and support.

Technical Specifications

Application Server	
Hardware and Software Requirements	
Name	**Description**
CPU	Intel® Core™ i3 or better
RAM	8GB or more
Network	Ethernet 100 Mbit or better
Hard Disk	10GB or more free space
Operating System	Windows 7 Home (64 bit) English
	Windows 7 Pro (64 bit) English
	Windows 8.1 Pro (64 bit) English
	Windows 8.1 Enterprise (64 bit) English
	Windows 10 Pro (64 bit) English
	Windows 10 Enterprise (64 bit) English
	Windows Server 2012 (64 bit): Standard and Datacenter English
	Windows Server 2012 R2 (64 bit): Standard and Datacenter English
	Windows Server 2016 (64 bit): Essentials, Standard and Datacenter English

Client Server	
Hardware and Software Requirements	
Name	**Description**
CPU	Inter® Core™ i3 or better
RAM	4GB or more
Network	Ethernet 100 Mbit or better
Graphic Adapter	Onboard GFX, AGP or PCI-Express, minimum 1024x768 (1280x1024 recommended), 16-bit color or better
Hard Disk Space	1GB or more free
Operating System	Windows 7 Home (64bit)
	Windows 7 Pro (64bit)
	Windows 8.1 Pro (64bit)
	Windows 8.1 Enterprise (64bit)
	Windows 10 Pro (64bit)
	Windows 10 Enterprise (64bit)
Software	Internet Explorer 11, Google chrome 42 or above, Edge 42 or above

Ordering Information

Model	Description
TRADAR-250F	Tyco Radar Detection, 250m range, 5.8GHz Sensor, 1.2m resolution
TRADAR-500I	Tyco Radar Detection, 500m range, 5.4GHz Sensor, 0.4m resolution
TRADAR-500F	Tyco Radar Detection, 500m range, 5.8GHz Sensor, 1.2m resolution
TRADAR-1000F	Tyco Radar Detection, 1000m range, 5.8GHz Sensor, 1.2m resolution
TRADAR-15MCBL	Tyco Radar Detection, outdoor PoE, 15m Cable
TRADAR-WMBRKT	Tyco Radar Detection, Wall Mount Bracket
TRADAR-CMBRKT	Tyco Radar Detection, Corner Mount Bracket
TRADAR-PMBRKT	Tyco Radar Detection, Pole Mount Bracket
TRADAR-MASS	Tyco Radar Detection, MASS Management Software (base License, Site Install, 1 PTZ Sensor)
TRADAR-MASS-PTZ	Tyco Radar Detection, ADD PTZ Sensor Integration (price is for 1 ADD sensor)
TRADAR-MS-SPRT	Tyco Radar Detection, MS Expert On-Site (4 days)
TRADAR-MSA-1238	V-Tracker GPU Server

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit www.tyco.com or follow us on LinkedIn, Twitter, and Facebook.