



HENSOLDT SPEXER® 2000 3D Radar

C-UAV and Critical Asset Protection

The rapidly emerging threat from small, cheap and easily available UAVs, seems to be permanently in the news. This threat is now of rising concern to all security services - military, homeland and civilian. Recent high profile incidents at airports, critical infrastructure and high traffic public events have resulted in significant financial losses. Forward operating bases (camp protection) and vehicle based C-UAV defence systems are prominent military applications.

This creates huge interest in solutions to counter this serious, emerging threat. HENSOLDT Spexer Radars are delivering early and precise detection data with associated target classification as a basis for engagement of asymmetric threats.

- Easy to operate with automatic target classification. Detection of small and slow moving targets in urban areas.
- Detection of fast maneuvering targets.
- Automatically distinguishes birds from drones.
- Easy to integrate in Command & Control Systems (via web interface).
- Flexible installation.
- Software defined radar, fit for future.
- Long-term supply and supportability.
- Field-proven.

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Maximum Detection Ranges			
UAV	9 km		
Micro UAV	6 km		
Pedestrian	20 km		
Light vehicle	22 km		
Light aircraft	27 km		
Technical Specification		Spexer 2000 3D MkII	Spexer 2000 3D MkIII
Radar Technology		Full coherent pulse Doppler Radar	Full coherent pulse Doppler Radar
Frequency Range		X-band radar	X-band radar
Azimuth Coverage		120°	up to 360° (single antenna 120°)
Elevation Coverage		15°	up to 90°
Track While Scan		> 300 targets	> 300 targets in 120°
Input Voltage		24 V DC	24 V DC
Power Consumption		< 550W	Antenna: 1.700 W Processing: 400 W
Size		Antenna: 1.0 m x 0.7 m x 0.25 m Processing: 0.7 m x 0.4 m x 0.3 m	Antenna: 0.6 m x 0.5 m x 0.16 m Processing: 0.6 m x 0.4 m x 0.3 m
Weight		System: 130 kg	Antenna: 39 kg Processing: 43 kg
General Information		Key Features	
<ul style="list-style-type: none"> • More than 180 radars sold • In-service with 8 nations • Integrated in soft and hard kill effectors 		AESA Multi-Panel	
		Spectral based micro doppler target classification	
		Operation in high clutter environment (e.g. urban areas, rainy weather)	
		Electronical Counter Countermeasures (ECCM)	
		Military qualified (MIL-STD-810, MIL-STD-461)	

Applications

