



## HENSOLDT SPEXER® 2000 2D

SPEXER® 2000 2D is a high-performance surveillance radar for the automatic detection and classification of ground, sea and low-flying air targets.

It was developed for the specific requirements of security scenarios; with its primary fields of application in border security systems, as well as the protection of critical infrastructure and perimeter.

SPEXER® 2000 2D has already proven its remarkable performance in integrated security systems in numerous regions of the world, where it is successfully being used to detect traditional as well as asymmetric threats.

# SPEXER® 2000 2D

## Main Applications and Capabilities

- X-Band Pulse-Doppler Radar based on AESA technology
- Surveillance of large areas and long distances
- Multi-mode capability: Time-multiplex and parallel operation (multi-sector scanning, point surveillance, target tracking)
- Ready for operation in a network of multiple radars or in combination with cameras

## Benefits

- Detection, tracking and automatic target classification of even very small and slowly moving targets, e.g. pedestrians or UAVs
- Capable of working under harsh climatic conditions, where other sensors such as cameras would fail
- High update rate ensuring very early warning/a high level of situational awareness

## Features

- Optional radome for extreme climatic conditions
- Fixed installed or transportable system
- Very low average radiated power: 8 Watts
- Graceful degradation, very high MTBF and low lifecycle cost



Functional Data	SPEXER® 2000 2D		
<b>Type</b>	Pulse-Doppler Radar based on AESA technology		
<b>Frequency</b>	X-band		
<b>Instrumented range</b>	40 km (24.9 mi; 21.6 NM), optionally 80 km (49.7 mi; 43.2 NM)		
<b>Detection ranges</b>	Pedestrian (0.5 m <sup>2</sup> RCS)	11.2 mi	18 km
	Light vehicle (2.0 m <sup>2</sup> RCS)	13.7 mi	22 km
	Truck (10.0 m <sup>2</sup> RCS)	22.4 mi	36 km
	Light aircraft (3.0 m <sup>2</sup> RCS)	16.8 mi	27 km
	Low-level helicopter (5.0 m <sup>2</sup> RCS)	22.4 mi	36 km
	UAV (0.2 m <sup>2</sup> RCS)	5.6 mi	9 km
	Small boat, rubber dinghy (1.5 m <sup>2</sup> RCS)	10.8 NM	20 km
<b>Coverage</b>	Electronic scanning 120° in azimuth (opt. mechanical rotation 360°); 4.3° elevation beam width; opt. +/-20° mechanical elevation tilt		
<b>Dimensions</b>	Width: 1.0 m (39.4 in), Height: 0.7 m (27.6 in), Depth: 0.6 m (23.6 in)		
<b>Interface</b>	Data/Control: 1 Gbit Ethernet LAN electrical (fibre optical interface optionally) for radar control and data output of plots, tracks and equipment status; integrated LAN interface for camera control		