TPS-732 V5 RADAR

HIGH END COASTAL SURVEILLANCE

ELECTRONICS DIVISION

The TPS-732 V5 is a Coastal Surveillance Radar, designed to provide excellent detection features combined with silent mission capability.

Programmable transmitting powers (down to hundred mWs) and proprietary complex waveform/frequency management combine true Low Probability of Interception (LPI) capabilities, with surveillance and tracking requirements against surface and air targets.

Unmatched features like super-resolution modes, zoom, Range Profile Imaging While Scan and Over-The-Horizon Surveillance mode set the standards for what the most demanding Coastal Surveillance needs. With its Very high Gain, double beam Antenna Group and powerful Up Mast Solid state Transmitter, TPS-732 V5 is the highest performances Radar in its category.

The TPS-732 V5 is based on a modern X-band, fully coherent, solid state architecture delivering state-of-the-art processing and new waveform generations.
It is built upon long experience in designing and delivering Coastal and Naval Surveillance Radars to the most demanding clients.

TPS-732 V5 general architecture includes local console and dedicated cabinets for waveform and plotter/tracking generation.
Three different Operating Modes specifically designed to respond to particular missions, are available and selectable by the operator.

KEY FEATURES

- LPI Pulsed Radar with Power Management
- Compact, modular, lightweight
- Solid state transmitter, intrinsic coherent architecture
- Digital compressed pulses
- Frequency agility, PRF jittered
- High resistance to ECM
- Sector blanking transmission
- Plot Extraction/Track-While-Scan option
- Dual polarization (Linear/Circular)
- Drones and low level air targets elevation coverage (Cosec2)

OPTIONS

- Integrated IFF antenna Option
- Range profile Option
- ISAR Option

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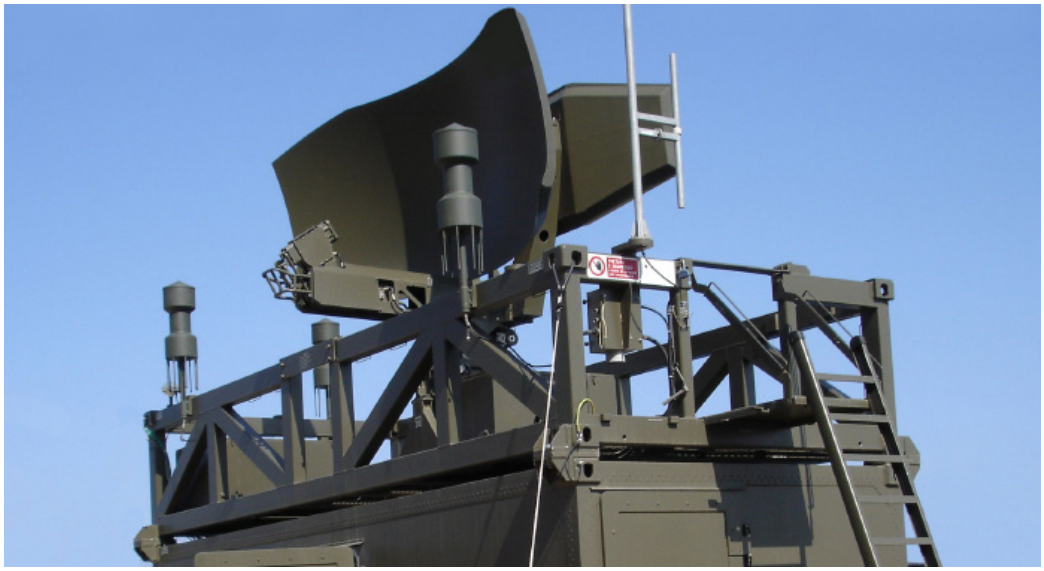

TECHNICAL DESCRIPTION

OPERATING MODE	INSTRUMENTED RANGE [NM]	DESCRIPTION
› Mode 1	≥98	Standard Surveillance Mode, mainly used in surface surveillance to detect small surface targets from few meters range up to almost full scale.
› Mode 2	≥54	Surveillance over strong clutter and fast moving targets to detect drones up to more than 25 km.
› Mode 3	≥150	Optimised over-the-horizon performance in presence of anomalous propagation and to detect clutter free air target at very long distances.

CABINET GROUP

	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
› TX-FER	475	500	390	45
› RTX-PRO	450	625	400	37
› LCP	613	442	330	22
› ASU (middle-end)	700	1875	550	50
› ASU (hight-end)	640	1400	720	200

	Swinng Circle (mm)	Height (mm)	Depth (mm)	Weight (kg)
› Antenna	2400	2300	2000	<600

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