



# SELEX GALILEO

A Finmeccanica Company



## TPS-730 HARBOUR/COASTAL SURVEILLANCE RADAR

TPS-730 is an I-band solid state scalable surveillance radar designed to provide high resolution detection combined with low power emissions.

It can be supplied in various configurations ranging from very compact for easy installation to larger versions designed for long range capability and thus is ideal for all ground based naval surveillance applications: Harbour Protection, Vessel Traffic Surveillance (VTS) and long range coastal surveillance.

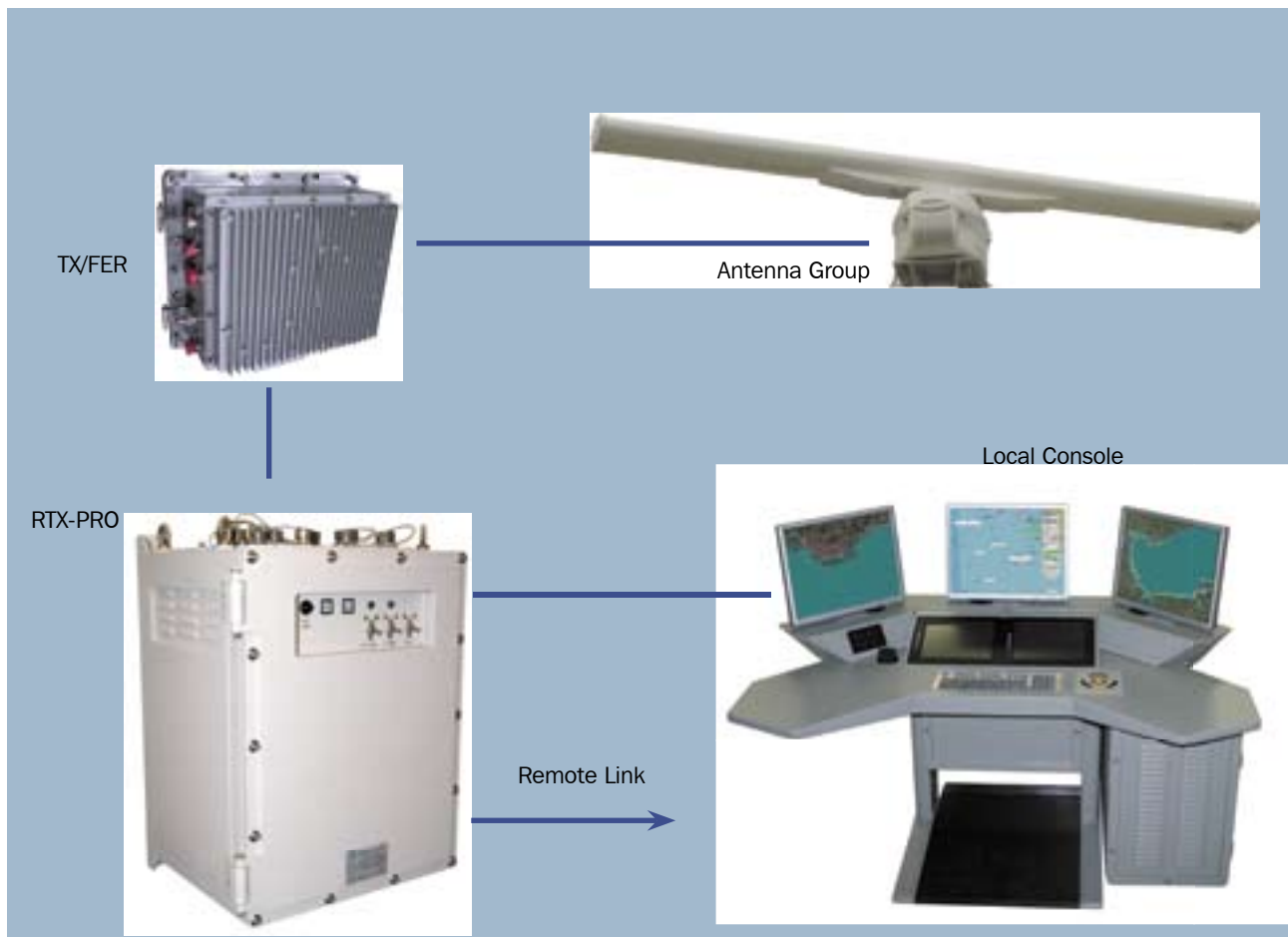
### GENERAL DESCRIPTION

TPS-730 is based on a state-of-the-art coded pulse LPI technique developed for navigation radars. It is low power driven by an advanced digital receiver and waveform generator, allowing for simultaneous long range detection and minimum range coverage.

### KEY FEATURES

- Compact, modular and lightweight
- LPI pulsed radar with Power Management
- No blind zones
- Solid state transmitter, intrinsic coherent architecture
- Digital compressed pulses
- Frequency agility, PRF Jittered
- High resistance to ECM
- High resolution modes
- Remote raw video and tracks data
- Excellent performance in rain and sea clutter
- Advanced signal processing
- Scalable architecture using a wide range of antenna and options
- Integration with E-O multi-sensor platforms featuring visual tracking slaved to designated radar track.

**TPS-730 LOW POWER EMISSION PERMITS A SAFE INSTALLATION IN HIGHLY POPULATED ENVIRONMENTS. DUE TO PROVEN CLUTTER MAPPING ALGORITHMS TPS-730 IS ALSO CAPABLE OF OPERATION IN GROUND SCENARIOS.**



#### CONFIGURATION UNITS

- Transceiver TX-FER
- Digital Receiver- Processor RTX-PRO
- Operator Local Console
- Antenna Group

#### OPTIONS

- High resolution in range (up to 1.5 metres)
- Range profile/Imaging
- Additional Doppler processing package to detect small, moving naval targets in heavy clutter and to improve air targets detection
- High manoeuvring advanced target tracker
- AIS tracks Fusion

#### ANTENNA GROUP OPTIONS

- 6, 9, 12 and 19 feet end fed slot array
- 21 feet microstrip antenna with Cossec<sup>2</sup> lobe pattern
- 3.5 m x 1.5m high gain reflector antenna with Cossec<sup>2</sup> lobe pattern for long range, optimised air surveillance

#### MAIN FEATURES

- Range scales from less than 1nmi Up to 96nmi for OTH surveillance
- 6m resolution on lower range scales
- 6m zoom on longer range scales
- Less than 50W max power reduced further with Power Management
- Remote control and video through LAN
- Local tracking data processor minimising communication with MCC and maximising tracking performance
- Advanced signal processing
- Adaptive CFAR for sea and rain clutter
- STC and Noise AGC for enhanced dynamic range
- Lobe integration
- Anti rain processing
- Operational availability > 99%, 24/7
- Integration with E-O multi-sensor platforms featuring visual tracking slaved to designated radar track.