TEDUNG

Passive ELINT System

Lurking in The Dark

TEDUNG is a Passive ELINT System engineered for modern Electronic Warfare (EW) operations. Operating within the 0.95 GHz to 18 GHz frequency range, the system searches, detects, identifies, and tracks radar emissions across air, land, and maritime domains without emitting signals, enabling covert surveillance, early threat detection, and enhanced real time situational awareness. Designed with a robust master-slave architecture, TEDUNG functions as both an operational and analytical platform, providing advanced signal processing, comprehensive electromagnetic analysis, and seamless connectivity to the Electronic Warfare Command Centre (EWCC). The system delivers reliable performance across diverse terrains, ensuring secure communications, resistance to jamming, and greater operational self reliance for the defence sector.

Key Features

- Be wary of potential threats arising from suspicious aerial presence.
- Early preparation in any possibilities.
- Gather radar signatures.
- Integrate seamlessly with any command control system.
- Utilize search-free techniques by receiving signals from all radar directions
- Cover a 500km (Line of Sight) radius.
- Employ passive detection methods.
- Display real-time geo-location of targets.
- Identify airborne, landed, and maritime targets based on their radar emissions, whether in motion or stationary.

Technical Specifications

Parameter	Specification
Frequency Range	0.95 - 18 GHz
Bandwidth for Analysis	500, 100, 50, 20, 10, 5, 2, 1 MHz
Space Scanning	In azimuth = 360° In elevation = 15°
Detection Range	500 km (LOS)
Position Finding Method	Time Differential of Arrival (TDOA)
Mean Position Error	2 % of the range
Number of Simultaneously Tracked Targets	Up to 200
Remote Interface	Ethernet
Deployment Time	45 mins
Dimension	1050 mm (H) x 595 mm (OD)
Weight	65 kg (antenna and radome)

