

Doppler Tracking System

Model DPLRF-10

System Overview

Doppler Tracking System provides accurate measurements of the trajectories of aircraft, guided weapons, separation of aircraft, and target encounters by using a combination of CW and FMCW signals with Doppler effects. The system allows us to gain essential information such as distance, speed, and angle of the target within the beam-width. The trailer or container are complied with ISO standard that makes easy to move the system by ship or land.

Characteristics

- Operate both on land and sea
- Test distance : up to 40km
- Target tracking and real-time signal analysis
Track targets through real-time signal processing and collects/saves its signals.
- Post processing signal analysis
Analyze targets according to RAW data in the data storage.
- Self-inspection
Perform initial self-inspection and RF path inspection (transmission path inspection, reception path inspection)
- Calibration
Internal calibration/Reception path calibration
- Multi-warhead detection tracking algorithm
The detection tracking algorithm that measures the ballistic and event phenomena of multiple targets in the end zone.
- Video recording/GPS

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Specifications

Item	Descriptions
Operating mode	CW, FMCW, CW+FMCW
Beam width	Narrow, Normal, Wide
Tracking mode	Track mode/Salve mode
Target tracking distance	40Km
Number of detected targets	Max 5
Frequency	X Band
Post-processing accuracy	Distance : 10m @SNR 12dB Speed : 20m/s @SNR 12dB Angle : 0.1deg @SNR 12dB
Calibration kit	Doppler frequency adjust +50 kHz Horizontal (H) polarization Battery operation

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