

Radar Cross Section(RCS) Measurement System

RCS-1808-20



AWT's RCS measurement system offers significant improvement in combat survivability through the reduction of RCS.

It analyzes the radar section of a moving stealth battleship, chaff, helicopter and other relevant targets.

We help achieving accurate measurements of RCS while providing customizable options.

Descriptions

- Analyze of stealth performance of battleship, chaff and helicopters in real-world environments.
- Evaluate whether new battleship meets the proposed requirements and utilize the data for RCS reduction.
- Analyze RCS vs Time, RCS vs Angle, HRRP, Hourglass, RCS vs Frequency, Chaff RCS vs Time
- Consist Tx/Rx Antennas and an operation console
- Process HRRP data from battleship or helicopters
- Provides accurate calibration using calibration tools, corner reflectors, Helicite.
- Using measured CHAFF RCS data for developing guided missile tactics
- IBIT/CBIT/RBIT

Specifications

Category	Specification
Operating mode	Single pulse, SFW, Chirp, Multi mode
Frequency range	8 GHz ~ 18 GHz
Frequency type	Fixed, Chirp
Polarization	HH, HV, VV, VH
RCS measurement distance	5 km ~ 20 km
Target RCS measurement	0 dBsm@10 km (↑ SNR : 14dB)
Bandwidth of narrowband signal	1 / 5 / 10 / 20 MHz
Target tracking technologies	RF Tracking, Video Tracking(RGB/IR), GPS Tracking, Manual Tracking
Monopulse tracking distance	Within 20 km
Optical / IR tracking distance	Within 20 km
Post-processing data	Analysis / Report data

