

3D Active Phase Array Radar (APAR)

DZRD E2000 is an Active Phased Array Radar that can be installed on mobile vehicles or on the ground to achieve low-altitude airspace "low, mall, slow" UAVs in all-weather regional detection, access to target's information in real-time with three-dimensional tracking.

Operating frequency: 6GHz±150MHz
Detection power: 1RCS : 0.01m2:≥1.8Km
Detection dead zone: ≤150m
Detection range: 30° (Elevation) 360°(Azimuth)
Speed range: 2m/s~50m/s (Distance ≤10m)

Accuracy of measurement

- Azimuth angle ≤0.5°
- Elevation angle ≤0.5°
- Distance ≤10 m

Resolution:

- Azimuth angle ≤4°
- Elevation angle ≤1m/s

Update rate: Speed 5s

Turntable horizontal speed: 15°/s~120°/s

Power consumption: ≤150W

Weight: ≤27Kg

Temperature range: -20°C~+55°C (-40 ° with capacity)

Features

- Rapid update rate with continuous 360 degree coverage
- Automatic and simultaneous performance of search and track
- Low elevation search to detect very small targets at the horizon
- Multi-beam volume search and track while scan for non engaged targets
- Integrated search and track for high accuracy and short reaction time
- Ku-band technology with very large bandwidth for low elevation detection and to counter multipath effects
- Adaptive processing for optimal waveform selection
- High robustness against jamming, using innovative ECCM1

