

GD-200S S-band Surveillance and Tracking Radar



With the ultimate long-range view, the Glocom's S-band radar gives you the ability to detect, predict, plan, and protect – before severe attack strikes.

Key Features

- S-band frequency
- Phased-array Multifunction Radar to support Air Defenses
- Algorithms developed and specifically tuned for performance at S-Band
- Superior performance designed for adverse weather conditions
- Interoperability with complementary Air & Missile Defense Systems
- Incorporated IFF system using Mode 1, 2, 3/A, C, Mode 4, 5
- High reliability, maintainability and availability

The Glocom's GD-200S Radar System is a transportable ground-based, multi-functional solid-state phased array radar. Incorporating Glocom's long-term experience in surveillance and tracking radars and utilizing the company's state-of-the-art phased array technology, The GD-200S Radar System is designed to autonomously detect and simultaneously track dozens of ballistic missiles and airborne targets covering long ranges, under all weather conditions and in the presence of undesired echoes. The modular, solid state, active array technology implemented in the radar, including multiple advanced transmit/receive modules, provides high redundancy, high reliability and high availability.

The mission of detecting and tracking long-range aircraft/ballistic targets, identification of aircraft, anti-jamming and guided missile acquisition/tracking is able to be carried out only by a single GD-200S radar.

Operational in the Air Force, this advanced radar enhances the country's air defense capabilities.

General Specifications

Frequency	S-band
Bandwidth	400MHz
Maximum Search Range	≥400km
Maximum Acquisition Range	General Fighter (4m ²): ≥300km, Missile, UAVs (0.1m ²): ≥120km
Maximum Tracking Range	General Fighter (4m ²): ≥250km, Missile, UAVs (0.1m ²): ≥100km
Effective Tracking Range	General Fighter (4m ²): ≥200km, Missile, UAVs (0.1m ²): ≥80km
Minimum Acquisition Range	≤10km
Minimum Tracking Range	≤5km
Azimuth Search Coverage	360° @ Antenna Rotating, ±45° @ Antenna locking
Elevation Search Coverage	-5° ~ +70°
Resolution	Range: ≤ 250m, Azimuth: ≤ 2.5°, Elevation: ≤ 2°
Tracking Accuracy(1σ)	Range: ≤ 5m, Azimuth: ≤ 0.15°, Elevation: ≤ 0.1°
Acquisition Update Time	12±0.5s@Antenna Rotating, 6±0.5s@Antenna locking
Tracking Update Time	(0.1~1s)
Target Number	100
Simultaneous tracking number	10
Radar Dimension	7.92m×3.3m×3.185m @ Marching, 7.92m×4.075m×8.2m @ Combat
Radar Weight	20.8t
Azimuthal Rotation Speed	10rpm (60° /s)
Setup & Tear-down time	≤15min
Combat Preparation Time	≤5min
Continuous Operating	6h

Array Antenna System

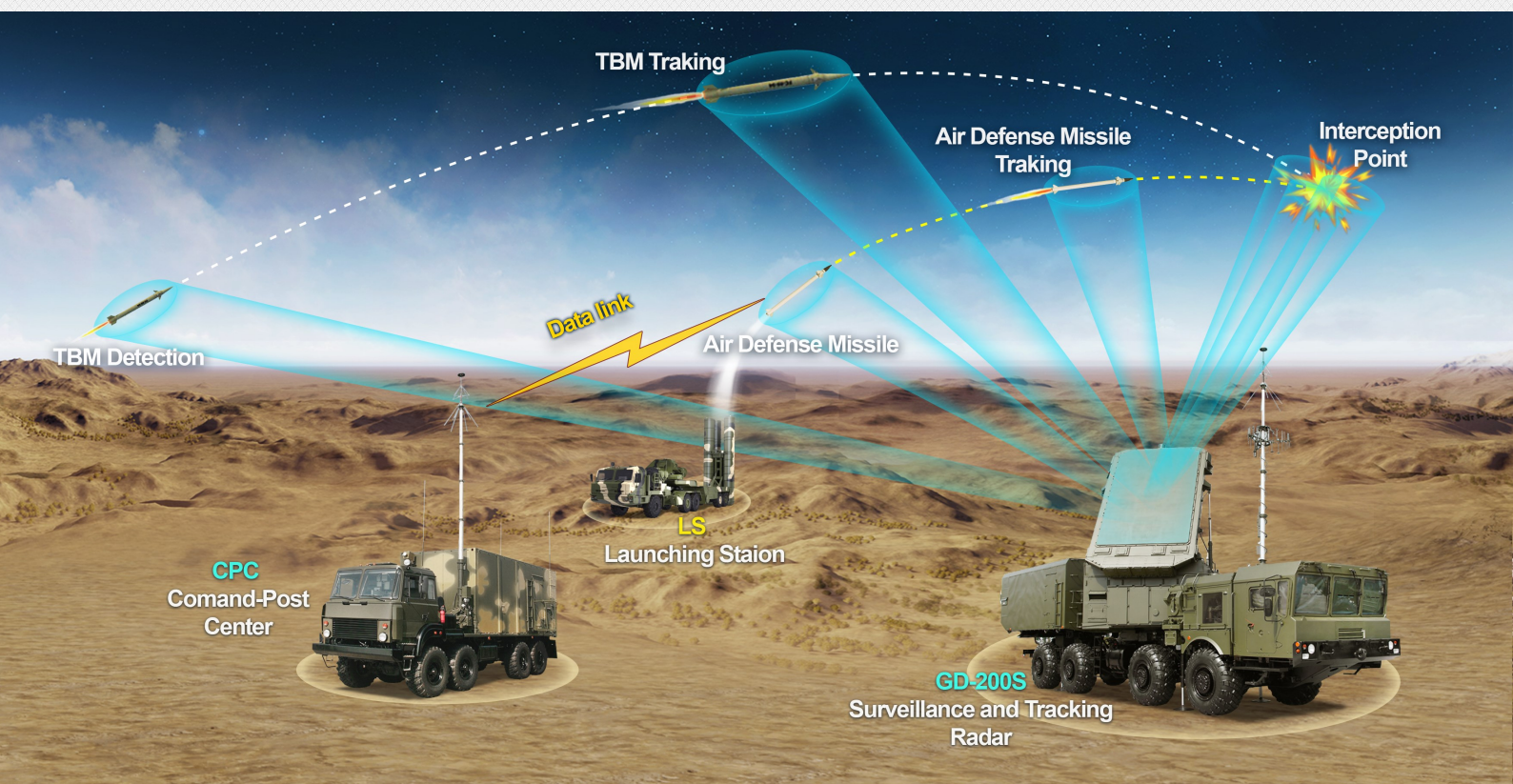
Beam width (Antenna Normal Steering)	Azimuth 2.4° (Tx), 2.4° (Rx) Elevation 1.6° (Tx), 1.5° (Rx)
Tx Gain	≥39dB
Rx Gain	≥40dB
Pulse Power	≥55kW
Size	3.2m(W)×5.09m(H)

IFF Interrogator

Dimension	470mm×400mm×400mm
Weight	35 ± 0.5kg
Operating Mode	Normal Mode: Mode 1, 2, 3/A, C, Secure Mode: Mode 4, 5
Tx Frequency	1030 ± 0.2MHz
Peak Power	2kW ± 1dB (2 channels)
Rx Frequency	1090 ± 0.5MHz
Dynamic range	≥60dB
Surveillance Range	≥300km
Azimuth Accuracy	≤0.5° (at all azimuth angles)
Range Accuracy	≤100m
Range Resolution	≤200m

IFF Phased Array Antenna

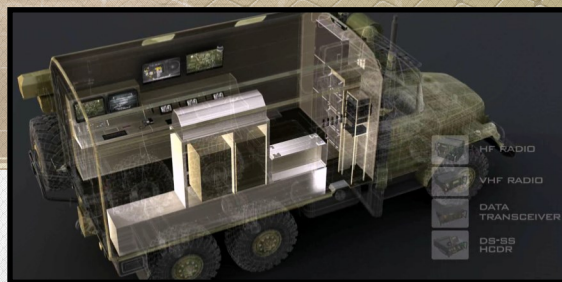
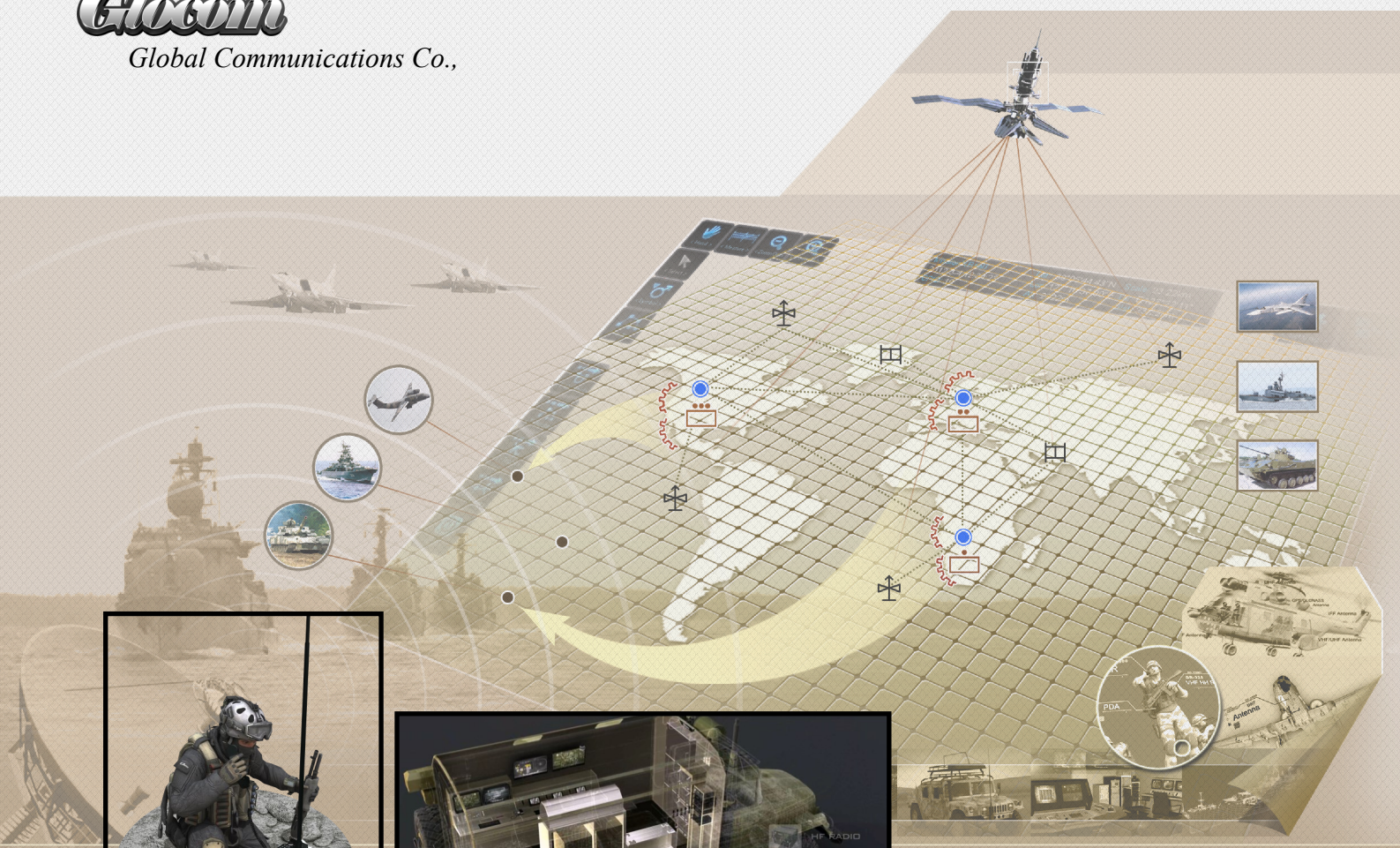
Frequency	1020~1100MHz
Polarization	Vertical
Antenna Gain	≥16dBi(Azimuth:0°), ≥45dBi (Azimuth:45°)
Azimuth Beam Scan Range	-45° ~ +45°
Effective Azimuth Beam width	≤ 8° @Azimuth 0° , ≤10° @Azimuth 45°
Elevation Beam Width	(3dB) 55±5°
Sidelobes	≤15dB (at all azimuth angles)
Size	2124mm×360mm×150mm
Weight	≤70kg



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