

# RSB91

# ReTCRAM

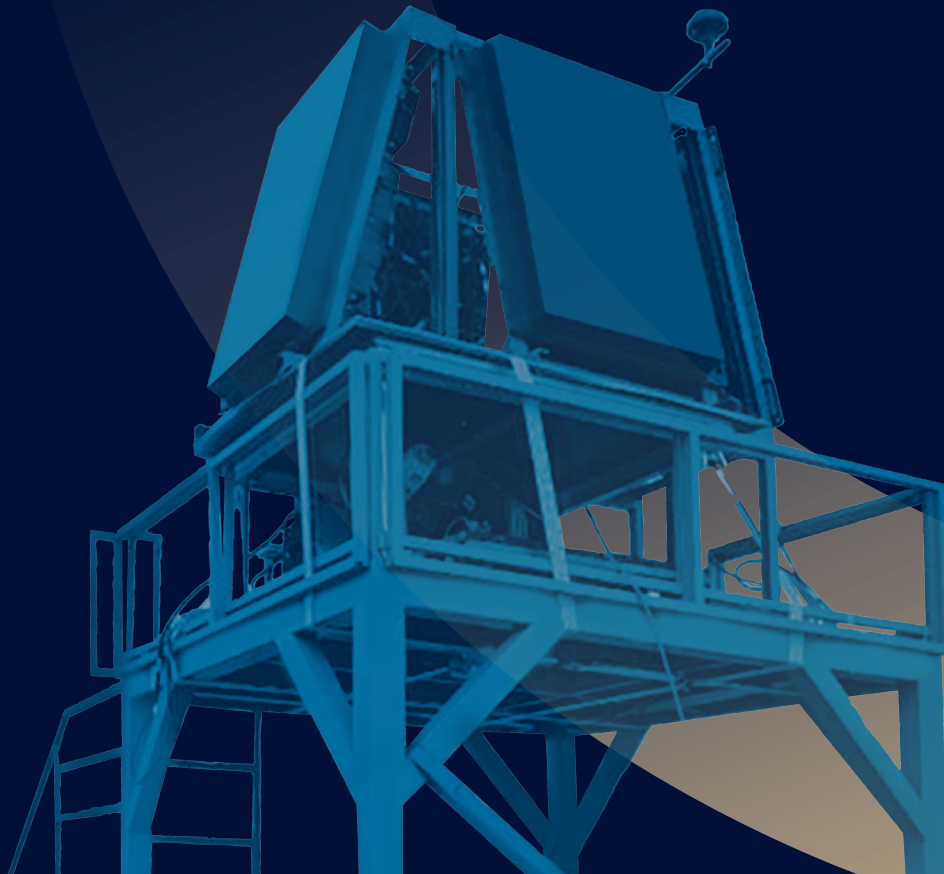
ReTCRAM is a state-of-the-art Counter-Rocket, Artillery, and Mortar (C-RAM) radar system designed for fast and precise localization of tactical, light, small, and mobile weapons. Optimized for maneuvering forces at brigade level and below, as well as special forces, it provides an effective response against indirect fire weapons. The system offers early and selective alerts for friendly forces and robust detection capabilities for aerial platforms.

## HIGHLIGHTS

- Searching and tracking of short-range Rockets, Artillery, and Mortar (RAM) threats
- Alerts for friendly forces
- Precise weapon location
- Detection and tracking of aerial platforms including low-flying fighter aircraft, helicopters, UAS, gliders, hovering platforms, and low RCS RAM shells

## MISSIONS

- Weapon Locating (WLR)
- Hostile Weapon Locating (HWL)
- Friendly Fire Ranging (FFR)
- Air Defense & Counter-Unmanned Aerial Systems (AD & C-UAS)

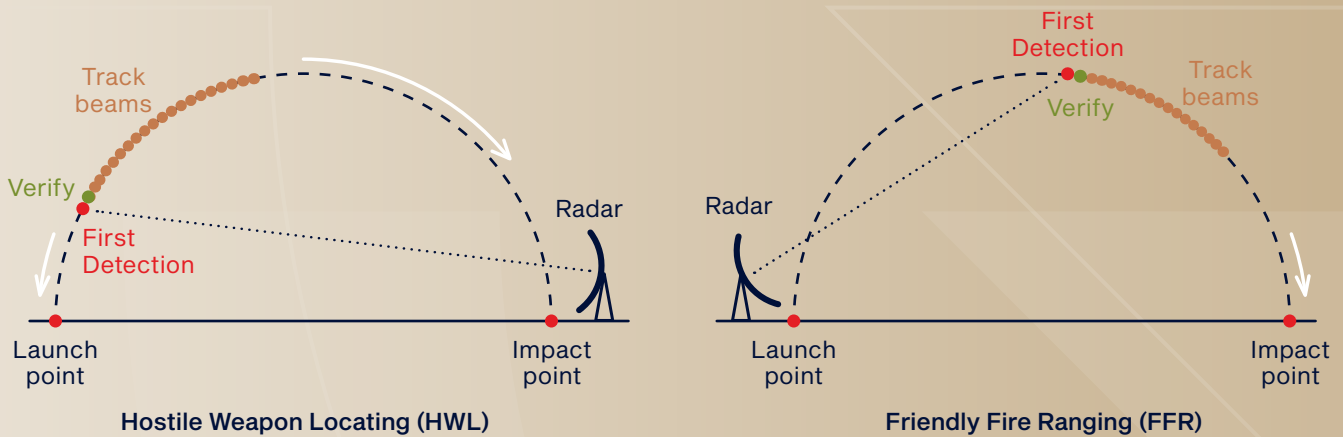


## KEY FEATURES

- Full AESA solid-state advanced technology
- Electronic beam steering in elevation and azimuth
- Rapid area monitoring with multiple received beams
- Monopulse processing for accurate coordinates
- Advanced signal processing for clutter suppression
- High mobility with mobile or stationary installation options
- 1 to 4 antenna sets

## KEY BENEFITS

- Reliable early warning against threats
- High resistance against jamming (ECCM)
- Easy integration with existing air defense and C2 systems
- Valuable reaction time for threat response
- ITAR-free



| Technical Parameter  | Description/Value                   |
|--|-------------------------------------|
| Operating Frequency [GHz]  | S-Band: 3,1-3,4                     |
| Transmitter Type   | Solid State, GaN                    |
| Peak Transmission Power [watt] per wall                                    | 5760                                |
| Average Transmission Power [watt] per wall                                 | 576                                 |
| Pulse Compression Technique  | Digital LFM                         |
| Antenna Type   | Planar, Fully Phased Array (AESA)   |
| IFF  | Fully uly Integrated with the radar |
| Requirement (System) [KVA]   | 12 KVA, 3 Phases                    |
| Overall readiness time (from transport to operational) [min]               | 30 (crew of 2)                      |
| Environmental Conditions   | As per MIL-STD-810F                 |
| Operating Temperature [°C]   | -32 to +50 (Up to 90%RH @ 30°C)     |
| Storage Temperature [°C]   | -40 to +85 (Up to 90%RH @ 30°C)     |
| Maximum operating wind [km/h]  | 100                                 |
| Weight (Pallet + equipment)  | Less than 3 tons                    |
| Instrumental Range [Km]  | 200                                 |
| Minimum Range [Km]   | 1.5                                 |
| Target Height [m]  | Up to 10,000                        |
| Elevation Coverage [deg.]  | 60° (up to 75 for priority targets) |
| Azimuth Coverage [deg.]  | 360° (by four antennas)             |
| Detection range of big fighter aircraft (RCS of 6 m <sup>2</sup> ) [Km]*   | 80                                  |
| Detection range of small fighter aircraft (RCS of 2 m <sup>2</sup> ) [Km]* | 60                                  |
| Detection range of small UAV (RCS of .5 m <sup>2</sup> ) [Km]*             | 42                                  |
| Detection range of mini UAV (RCS of .1 m <sup>2</sup> ) [Km]*              | 25                                  |

\*The declared detection range performance is for P<sub>D</sub> of 90% and P<sub>FA</sub> of 10<sup>-6</sup>