The Precision Fire Control Radar can integrate with a variety of weapon systems, providing precision tracks to support the fire control mission.

SRC’s Precision Fire Control Radar (PFCR) is a 3-D, fully active electronically scanned array (AESA) fire control radar capable of integrating with a variety of weapon systems. The radar is designed to detect and track targets of interest including unmanned aircraft systems (UAS), manned aircraft, vehicles, personnel and rocket, artillery and mortar (RAM) threats. The multi-mission radar system delivers enhanced force protection capabilities and situational awareness to the Warfighter by supporting various missions including counter-UAS, short-range air defense (SHORAD) and air surveillance.

**PRECISION TARGETING**

The PFCR provides accurate target location, including altitude and velocity of airborne and ground-based threats in a configurable hemispherical volume of coverage (360° in azimuth and 90° in elevation). Upon target detection and classification, the radar delivers firing coordinates to an integrated weapon system and tracks both the target and integrated weapon munitions to determine and recalculate firing coordinates on-the-fly.
VERSATILE
Supporting the evolving mission of the Warfighter, the PFCR is vehicle mountable and operable both at-the-halt and on-the-move, in all-weather conditions. The radar can be integrated to direct various weapon systems, including turret mounted guns, loitering munitions and high energy laser systems. The PFCR can simultaneously operate in search and track modes, with a high update precision track capability, giving the radar the ability to track and direct fire toward a threat while scanning for additional threats or friendly tracks.

The Precision Fire Control radar system is currently under development.

APPLICATIONS
• Counter-UAS
• Short-Range Air Defense (SHORAD), Maneuver-Short-Range Air Defense (M-SHORAD), Very-Short-Range Air Defense (V-SHORAD)
• Fire control
• Air surveillance
• Force protection

BENEFITS
• Performs air surveillance and precision tracking simultaneously
• Multi-mission capable with a modular antenna design to adapt to evolving mission parameters
• Tracks outgoing rounds and other small radar cross section (RCS), high-speed targets simultaneously with low-speed longer range targets
• Seamless integration with a variety of weapon systems
• Increased situational awareness and protection for the Warfighter

SPECIFICATIONS
• Weight: 100 lbs (45 kg) per panel
• Input power: 2.5 kw per panel
• Operating frequency: X band
• Operating temperature: -40° C to 65° C
• Azimuth coverage: 90° Steerable
• Elevation coverage: 90° Steerable

FEATURES
• 3-D AESA radar
• Air cooled
• Multi-mission
• Track-while-scan (TWS)
• High update precision track
• Integrates to cue cameras, weapons and other sensor systems with high accuracy
• Detects, classifies, and provides target location accuracy
• Detects low, slow and small (LSS) threats
• Built-in-test for automatic fault isolation
• Lightweight
• Low life cycle cost
• Tower, vehicle mount and tripod configurations
• Low false alarm rate
• Automatic target tracking and classification – tracks hundreds of targets simultaneously
• Advanced 3-D display

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