

# **LSTAR® (V)3**

The *LSTAR (V)3* system is a low-cost, tactical radar designed to **fill critical gaps in air surveillance to protect vital infrastructure and other high value assets**

Protecting borders and high value assets is of increasing importance as threats become more technologically advanced. The application of unobtrusive and smart technology to monitor the airspace is essential to protect against non-traditional threats.

The *LSTAR® (V)3* system, SRC, Inc.'s lightweight surveillance and target acquisition radar, is designed to fill critical gaps in air surveillance. Its unique 3-D and 360 degree electronic scanning capability provides reliable detection and tracking of a wide variety of aircraft (fixed wing, rotary wing, etc.) within an instrumented range of 35 kilometers or more.

The *LSTAR (V)3* system's small size allows for easy transportation and rapid emplacement, making it ideal for low-profile operation. The *LSTAR (V)3* system also features a rugged enclosure that protects it from hurricane force winds and other severe environmental conditions.



***THE LSTAR (V)3 SYSTEM  
PROVIDES RELIABLE DETECTION  
AND TRACKING OF A VARIETY  
OF AIRBORNE TARGETS***



# LSTAR® (V)3

## APPLICATIONS

- Border air surveillance
- Unmanned aircraft systems (UAS) sense and avoid
- Local airspace management
- Critical infrastructure protection
- Wind farm gap filler

## BENEFITS

- Low lifecycle cost
- High mean time between failure (MTBF)
- Easily transportable and rapid emplacement
- Few false alarms in challenging clutter environments
- Full remote operation
- Ideal for integrated solutions
- Cueing of visible/IR camera
- ADS-B or secondary surveillance radar

## SPECIFICATIONS

- Azimuth coverage: 360°
- Elevation coverage: 0 - 30°
- Instrumented range: > 35km
- System weight: < 227 kg/500 lb
- System size:
  - 40 in/102cm diameter
  - 85 in/216cm high (adjustable)
- Temperature range: -32°C to 49°C
- Power requirements:
  - 1,800 W
  - 110/240 VAC
  - 50-400 Hz



## FEATURES

- Provides 360 degree coverage with non-rotating, electronically steered antenna
- Configurable for < 360 degrees, focused sector coverage
- Provides 3-D target position
- High-resolution, fully coherent Doppler waveforms and processing
- Flexible installation options (tripod or pedestal, rooftop or tower, vehicle mount)
- Flexible power options (AC grid, generator, or 24 VDC vehicle)
- Supports IP networks
- ASTERIX or custom interfaces
- Rugged packaging with no moving parts and minimal maintenance
- Small footprint with low power consumption
- Full integrated logistics support



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