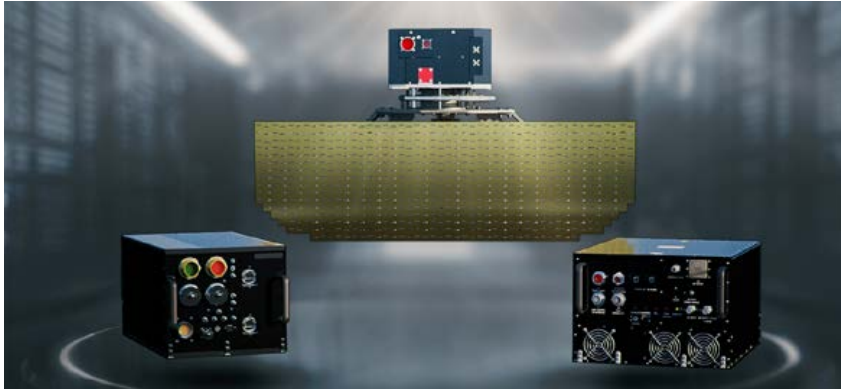


SharpSight® multidomain surveillance radar



Superior multimission performance

Proven modern, commercial off-the-shelf hardware for all-weather surveillance, backed by over 60 years of radar innovation

Benefits

- Long-range/small-target detection from high altitudes
- Proven on multiple aircraft and platform types
- Software-defined architecture, enabling rapid capability upgrades
- 360-degree multimode radar
- Multiple antenna options
- Air cooled
- Tracks more than 1,000 targets

Optimized for high-altitude, small-target detection

Built upon more than 60 years of maritime and overland surveillance radar innovation, the Raytheon SharpSight multi-platform, multidomain, software-defined surveillance radar is designed for crewed and uncrewed airborne and elevated platforms.

By fusing the capabilities of two of our proven radar families – the Highly Integrated Synthetic Aperture Radar (HISAR) and SeaVue Multi-role Radar (SVMR) – SharpSight is optimized for high-altitude, small-target detection and designed to meet the most challenging multimission needs, now and into the future.

Capable of delivering in demanding intelligence, surveillance and reconnaissance (ISR) environments, SharpSight excels in a wide variety of mission scenarios and offers system-level reliability on par with active electronically scanned array (AESA) systems. As a software-defined radar, SharpSight is field upgradable and designed for continual growth and longevity.

Features

- Maritime moving-target indicator (MMTI)
- Ground moving-target indicator (GMTI)
- Airborne moving-target indicator (AMTI)
- High-resolution synthetic aperture radar (SAR)
- High-resolution inverse SAR (ISAR)
- Color weather

SharpSight multidomain surveillance radar

Multimission support

SharpSight provides cost-effective multimode radar performance across maritime, land and air mission segments:

- Anti-surface warfare (ASuW)
- Coastal monitoring, maritime and littoral surveillance
- Border protection
- Anti-piracy
- Interdiction operations – drug trafficking, smuggling and terrorism
- Economic exclusion zone monitoring and enforcement
- Search and rescue
- Long-range surveillance
- Overland mapping and imaging
- Environmental monitoring and biological detection

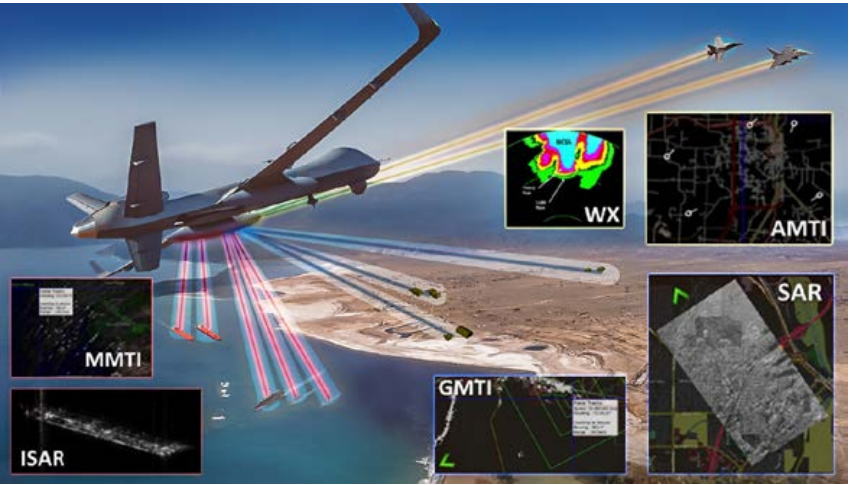
Antenna options

SharpSight features an assortment of antenna apertures in different sizes and shapes to optimize platform-specific mission performance.

Operator interface

SharpSight is easily integrated with host platform mission systems and displays. For platforms without an integrated mission system, SharpSight includes Rough Widow, a full-featured graphical user interface (GUI) for radar command, control and display.

For additional information, contact SharpSight@rtx.com.



Specifications

Frequency	X-band
Range coverage	320 nmi
Azimuth coverage	360 degrees
Elevation coverage	+5/-15 degrees
Total weight	129 kg (284 lbs.)
Input power	Three-phase 400 Hz
Targets that can be tracked	>1,000
Cooling	Air cooled

Raytheon
2501 West University Drive
McKinney, TX 75071
sharpsight@rtx.com

Connect with us

