

RANGEVUE™

Beyond Visual Line of Sight Situational Awareness For UAS

UAS pilots are challenged to execute missions while operating safely in complex and dynamic airspace

ACCURATE TRACKING OF MANNED AIRCRAFT AND UAS

UAS operating in the National Airspace System (NAS) are required to stay safely away from any manned aircraft flying in their vicinity at all times. To accomplish this, remote pilots need to have real-time, highly accurate and reliable electronic surveillance systems to monitor the airspace around their UASs.

Consumer-oriented solutions cannot meet the high-performance expectations for aviation-grade situational awareness. This forces UAS pilots to implement additional safety measures that limit the efficiency and value of their own flight operations and diminishes the benefits of flying unmanned aircraft.

WHAT IS RANGEVUE?

RangeVue is the only aviation-grade, airspace situational awareness tool that integrates UAS operations safely into the NAS. It combines comprehensive surveillance visibility, reliability of service, and scalability for local or nation-wide deployment.

RangeVue uses subscription-based surveillance data feeds from the Federal Aviation Administration's (FAA) national sensor networks and augments them with locally deployed infrastructure. This optimizes the system for the particular operational airspace at a low-cost. With RangeVue, UAS operators, UAS fleet managers, public safety agencies and regulators have complete awareness of their airspace.



Integrates UAS into the National Airspace System

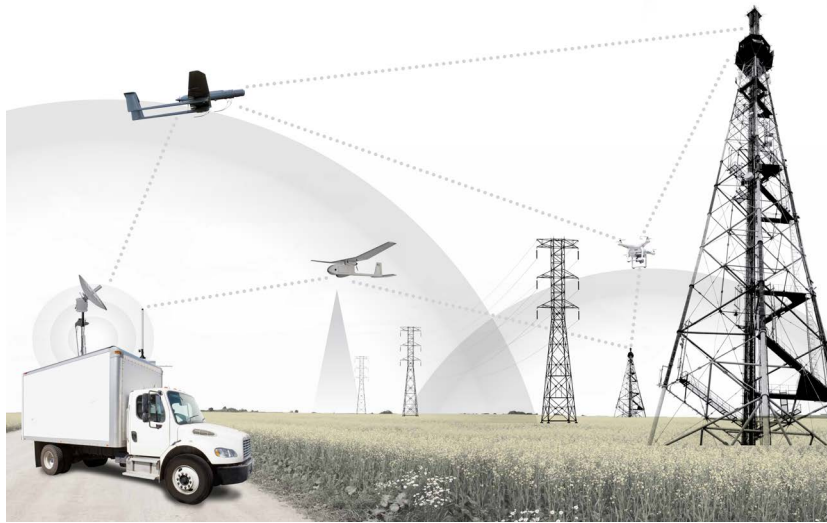
BENEFITS

- > **Comprehensive situational awareness:** Provides a detailed, real-time surveillance picture for high and low altitude aircraft and UAS
- > **Performance reliability:** Uses redundant sensing technologies and networks for the most dependable service
- > **Surveillance accuracy:** Displays precise location information using advanced algorithms and surveillance data sources
- > **Scalable solution:** System can be configured and cost-optimized for any scale operation
- > **Leading UAS industry in field deployments:** Supports FAA-approved beyond visual line of sight (BVLOS) activities
- > **Program management excellence:** Uses aviation-grade technology backed by leading air traffic solutions experts

AVIATION-GRADE SITUATIONAL AWARENESS

RangeVue provides operators with both real time and historical situational awareness information across the National Airspace System. This allows remote pilots to operate aircraft with full visibility into all unmanned and manned aircraft in a given area. The system offers event playback and flexible geofencing capabilities. RangeVue also uses unique sense and avoid and alert capabilities to improve safety and efficiency in operations.

UAS NETWORK OF SERVICES



COMMAND AND CONTROL SITUATIONAL AWARENESS DETECT-AND-AVOID

LEVERAGES NEXT GENERATION SURVEILLANCE INFORMATION

RangeVue can leverage the L3Harris surveillance data feed, which combines the FAA surveillance network, federal systems, and commercial systems to create a comprehensive view of operations. It also integrates data from locally deployed Surveillance assets for improved efficiency and safety.

FAA Surveillance Network systems:

- > ADS-B NextGen surveillance network
- > ASSC surveillance system
- > ASDE-X surface data
- > En Route and terminal radars
- > Wide area multilateration systems (WAM's)

Locally deployed surveillance assets:

- > Local ADS-B sensors
- > Ground primary radars
- > UAS GCS telemetry

FEATURES

- > Comprehensive data feeds from the FAA's NAS-wide sensor networks with subscription
- > Integrates ground and airborne primary radar data feeds
- > Enables alerting & guidance capability for collision avoidance
- > Displays geofencing and "no-fly" areas
- > Customizable user interface
- > Aeronautical maps and Google Earth views
- > Archiving and playback capability

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