



USMC Terrestrial Collection Systems – Ground Sensors Remote Surveillance Imager (TCS-GS RSI)

Aries Defense, a division of Sigma Defense, delivers mission-proven tactical surveillance and networking solutions that provide real-time situational awareness to Marines operating at the tactical edge. Selected by the U.S. Marine Corps, Aries supports the Terrestrial Collection Systems Ground Sensors (TCS-GS) program of record as part of the Remote Surveillance Imager (RSI) capability set.

Aries Defense enables MEF commanders to task, view, and re-task terrestrial sensors across air, ground, and maritime platforms through a unified, network-resilient ISR architecture without custom integration, manual configuration, or platform-locked kits. The solution consists of:

- **NEOS™ Dual** delivers immediate, mission-relevant sensor video and data anywhere, creating a unified operational picture without overloading the network.
- **CheckPoints** enables autonomous, beyond-line-of-sight perimeter awareness without adding operators, so units move and act with confidence.
- **R50** delivers long-range threat detection and tracking turning standoff distance into decision advantage.



“The RTK proved invaluable in training and real-world operations...allowing recon teams to maintain a COP, extend security, and preserve force without additional manpower.”

— USMC recon team

NEOS™ Dual

NEOS Dual is a lightweight, DIU Blue-certified edge processing and data transport system for Group 1–2 UAS and dismounted operations that sits between the ground control station and the network, instantly converting raw sensor video and data into standard, network-ready formats. With plug-and-play simplicity, it securely streams live, usable video over radios, LTE, or satellite links—without a TAK server—so operators can immediately share real-time situational awareness with any network or teammate. NEOS supports the mission with:

- **FMV Distribution** from sUAS / UAS directly to the network



- **Surveillance and Reconnaissance** pushed to ATAK for automated detections
- **FIRES and Forward Observer Support** for rapid ID and mission coordination
- **FOB and Vehicle Perimeter Security** with video monitoring, analysis and alerts
- **Situational Awareness** with a shared operational picture

CheckPoints — 360° Force Protection

CheckPoints is a compact, dual-camera surveillance system designed to enhance force protection by giving Marines instant blind-side and rear-flank visibility without adding manpower. Integrated directly into ATAK, it delivers continuous situational awareness through live video, automated alerts, and silent cues, allowing units to maintain 360° security while staying focused on the mission.

- **360° Force Protection** with dual visible and thermal feeds
- **Silent Alerting** via motion detection maintains EMCON
- **Plug-and-Play Deployment** with auto-connect to tactical radios and networks
- **Manpower Efficiency** eliminates need for additional rear security



Recon V OverWatch Kit (R50)

R50 integrates Aries Defense's OverWatch system with the Teledyne FLIR Recon V thermal binocular to deliver long-range, networked ISR for Marines operating in austere and contested environments. Designed for dismounted teams and fixed observation posts, R50 extends surveillance beyond line of sight, enabling commanders to detect, identify, and share threats faster while maintaining low bandwidth use and EMCON discipline

- **Networked Reconnaissance** via shared ISR assets across TAK and MCH
- **Multi-Network Resilience** FMV auto routed over MANET, SATCOM, LTE, or laser
- **Low-Bandwidth Optimization** Performance in degraded and denied environments
- **Flexible Deployment** Backpackable or mountable for edge surveillance

Contact Us

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