

SNC[®]

SHADE[™]



Leveraging the Stratosphere

In order to maintain pace with evolving defense requirements, Sierra Nevada Corporation (SNC) is postured to leverage the stratosphere via high altitude platforms that provide critical data in a timely manner to key operational decision makers and tactical warfighters. Synchronized High Altitude Distributed Environment (SHADE) capabilities are a force-multiplier for mission command by providing extended communications, lethal / non-lethal fires, intelligence, surveillance, electronic warfare, cyberspace operations and enhanced situational awareness.

Operational Focus with Integration Expertise

Provide a Multi-Domain (MD) architecture and capability on a mix of survivable, attritable, or expendable platforms in order to maintain operational advantage and overmatch against an adversary with Anti-Access Area Denial (A2AD) capabilities. The SHADE agile and adaptive near space sensor-platform pairings will deliver the right information at the right time to key decision makers via assured and efficient data transport as a critical enabler for integrated mission command, fires, intelligence, Electronic Warfare (EW) and cyberspace operations.

Capabilities will directly enable commanders to achieve decisive advantage in lethal, high-intensity operational environments against peer adversaries. SHADE is a critical component of MD, providing relevant intelligence and sensor-to-shooter links essential to integrated effects for cyber operations and EW. SHADE will leverage more capable, Long Range Precision Fires (LRPF), flexible and integrated platforms, payloads, data transport and enhanced analysis using artificial intelligence (AI) and machine learning (ML) to maximize the capability available to commanders and reduce operational risk to the force.

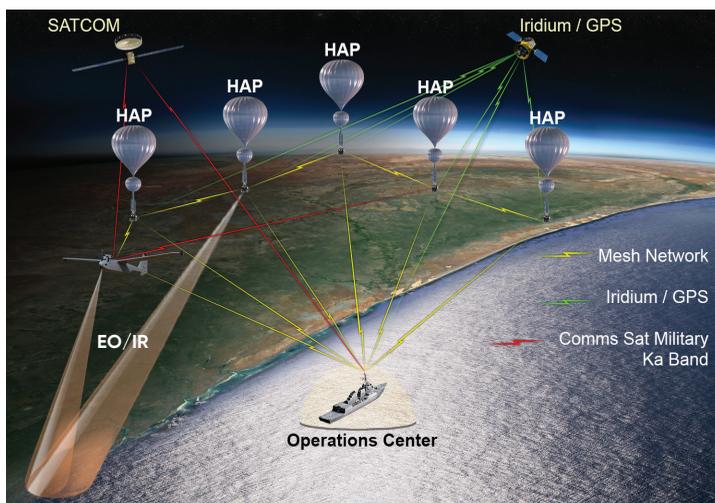
Operational Value:

Enhanced & responsive ISR capabilities in contested areas / maritime domains in resource-challenged areas

- Responsive and deployable within hours/days vs weeks/months to JTF urgent operational needs
- High Altitude Platform (HAP), UAV, and USV (w/ sensors mounted on each) provide ISR and a Common Operational Picture (COP) through a robust tipping & cueing architecture
- Payload-agnostic, long dwell Anti-Access Area Denial (A2AD) cross-queuing AND bi-static capability implementing SAR, SIGINT, ELINT, LTE, or TTL packages
- SHADE constellation functions as a low cost satellite surrogate architecture

Discriminator

A modular C5ISR tactical architecture that provides direct support to the ground and maritime forces to enable mission success. This modular architecture will provide the end user with enhanced situational awareness through various payloads, sensors, data links and communication networks. The SHADE employment concept is to provide a dynamic response to an evolving threat by developing a tool kit of plug-and-play sensors that can be rapidly deployed and controlled by both a decentralized ground force operator or by a centralized Command and Control (C2) node.



Specifications

Size:	Modular platform supports payload integration
Weight:	110 lbs (2023: 220 lbs)
Power:	250 Watts Sustained, 1kW Peak (2023: 350 Watts Sustained, 2 kW Peak)

Start a conversation with us today.

Call us at **303.795.0604** or
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