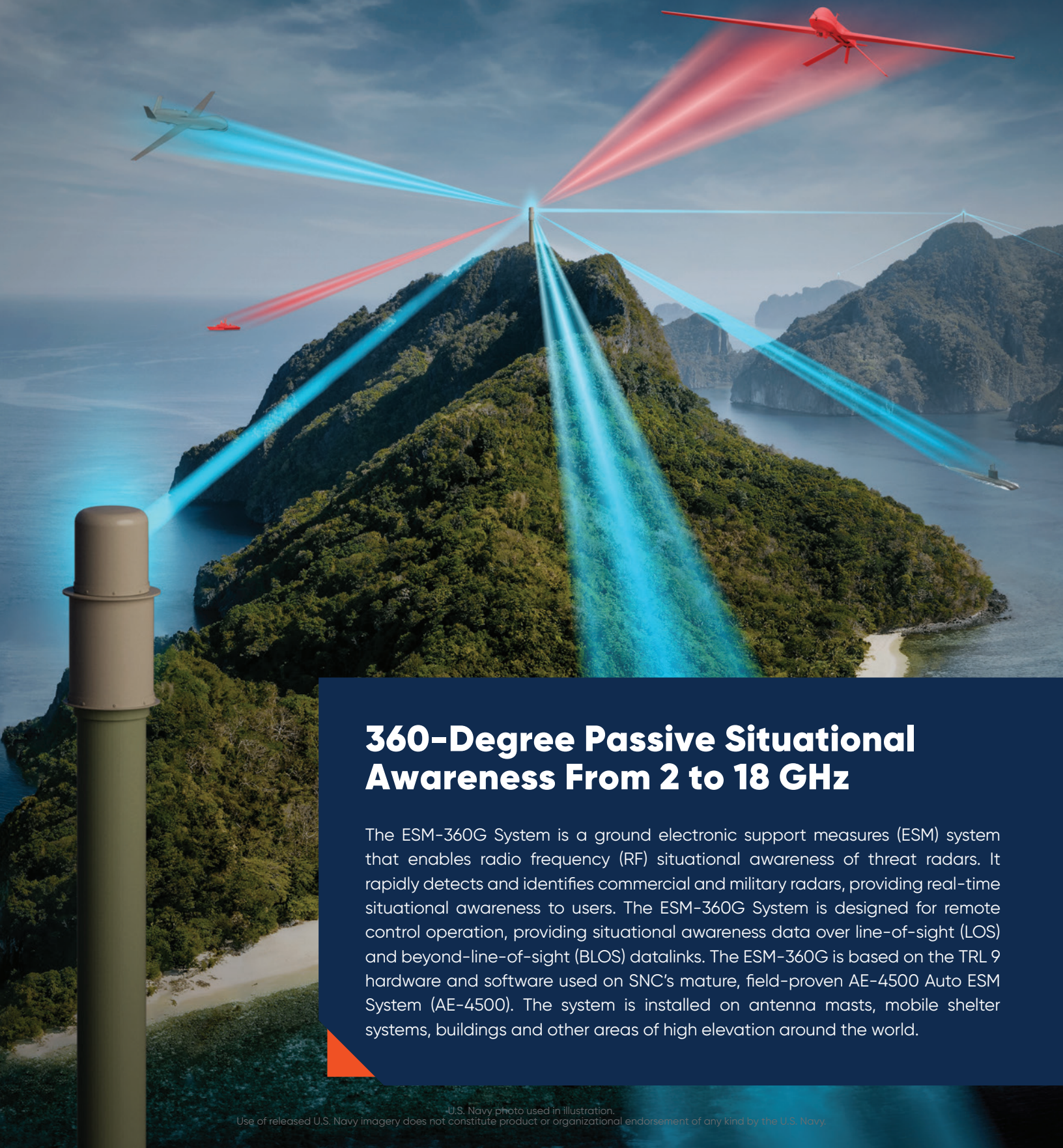# snc®

ESM-360
Ground System

360-Degree Passive Situational Awareness From 2 to 18 GHz

The ESM-360G System is a ground electronic support measures (ESM) system that enables radio frequency (RF) situational awareness of threat radars. It rapidly detects and identifies commercial and military radars, providing real-time situational awareness to users. The ESM-360G System is designed for remote control operation, providing situational awareness data over line-of-sight (LOS) and beyond-line-of-sight (BLOS) datalinks. The ESM-360G is based on the TRL 9 hardware and software used on SNC's mature, field-proven AE-4500 Auto ESM System (AE-4500). The system is installed on antenna masts, mobile shelter systems, buildings and other areas of high elevation around the world.

ESM-360G System

Receiver Processor Assembly (RPA)

OVERVIEW

The ESM-360G provides identical data outputs using the same scan plan and threat database inputs as the AE-4500. The system uses one Quadrature Antenna Assembly (QAA) to provide 360-degree instantaneous azimuth coverage. The QAA receives and provides RF signal conditioning for 2 to 18 GHz signals. The other hardware in the ESM-360G System is identical to or modified from the AE-4500. The parameter measurement range, resolution and accuracy are the same as the AE-4500.

SYSTEM SPECIFICATIONS

• Frequency Coverage	2 to 18 GHz
• Instantaneous DF Coverage	360 degrees
• QAA Size	24" (H) x 10" (Diameter)
• RPA Size	8.75" (H) x 6.25" (W) x 14.5" (D)
• System Weight	60 lbs
• System Power	+28 V, 420 Watts
• Operating Temperature	-55° to +65° C
• Control Interface	Gigabit Ethernet LAN

The ESM-360G System is easily installed onto a wide range of ground platforms to provide single platform geolocation. The ESM-360G is designed to enhance the AE-4500 by providing additional detection and direction-finding coverage to sectors beyond the reach of the AE-4500. Using the same pre-mission planning, in-mission operation and post-mission analysis tools – the two ESM systems provide data over a narrowband datalink to a common, map-based graphical user interface, delivering real-time situational awareness and simplified operations.

FEATURES

Remote, Unattended Detection & Identification

Passive, Networked Geolocation

Boots from & Stores Data to Encrypted NAS

Low-Risk / Low-Cost. Control, PDW Data, EDW Data, Scan Plan, Threat Database & GUI are the same as the AE-4500

EQUIPMENT

• QAA - Quadrature Antenna Assembly (2 to 18 GHz)
• ILA - In-Line Amplifier (Optional)
• RPA - Receiver Processor Assembly

11/21/2025