"Ruggedized" Sierra PRO 1616V3

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# LOCKHEED MARTIN RECEIVES 75th "RUGGEDIZED" SIERRA PRO™ ROUTING SWITCHER FOR ITS Q-70 PROGRAM

AN/UYQ-70 Console

Sierra Video is pleased to announce the shipment of our 75th customized video routing switcher as part of Lockheed Martin's Q-70 console program. The "ruggedized" wideband routing switcher was designed to withstand intense levels of shock and vibration.

Lockheed Martin's Q-70 consoles are designed for surface ships and submarines, and a central goal of the program is to modernize as well as streamline combat networking systems. Q-70 consoles provide flexibility, adaptability, and cost-savings to the US Navy by incorporating open system architectures, commercial technology, planned technology refresh and cross-platform commonality.

## COTS SOLUTION

Sierra Video's Sierra PRO routing switcher was customized for the Q-70 program, providing a key Commercial-Off-The-Shelf (COTS) component to the console's video, radar, and sensor data monitoring functions. According to Lockheed Martin, the use of COTS equipment, including the Sierra PRO routing switcher, in place of specialized hardware has saved the U.S. Navy more than $1.5 billion over 15 years.

The 2RU 16x16 RGB routing switcher was developed specifically for naval applications that experience high levels of shock. Custom features in the "ruggedized" Sierra PRO routing switcher include specialized insulation, card-retention components, and fixed fasteners. The initial requirement was that the routing switcher be able to withstand 20G of shock. According to Mike Morgan, Director of Government Accounts for Sierra Video, the routing switcher inadvertently exceeded expectations by a long shot: "The Sierra PRO unit was initially slated for testing at 20G, but was inadvertently tested at 100G, really putting it through the ringer. However, when the test team examined the unit every component remained perfectly intact – a real testament to this rugged design."

Added Morgan, "We're incredibly proud of this milestone: the 75th unit to be included in the Q-70 program. It is a sign of Sierra Video's excellence in accommodating the most rigorous applications with creative, yet solidly reliable, custom products."

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