

# **VPX-BASED NEXT-GENERATION VIDEO PROCESSING UNIT**

## **VPU™**

The L3Harris VPU™ provides stunning real-time enhancement to turret video and greatly increases the effectiveness of personnel, equipment and assets on air, land or sea by significantly enhancing video detail and clarity. The VPU™ delivers optimized video from electro optical infrared turret systems. The latest image processing algorithms sharpen edges, increase contrast, reduce turbulence and reduce operator workload and fatigue.

### **KEY FEATURES:**

#### **Standard compliant interfaces:**

- > Three channels high-definition serial digital (HD-SDI) interface video, four channels H.264/H.265 compressed video, ethernet command, control and data
- > Meets AS6129 and AS6135 specifications
- > Delivers MISB-compliant metadata
- > Aligned with SOSA requirements

#### **Advanced image processing:**

- > Configurable telemetry overlay
- > Local area contrast enhancement
- > Turbulence mitigation
- > Super resolution
- > Edge sharpening
- > Histogram equalization
- > Multi-sensor image fusion
- > Seespot boresight management

#### **Modular design follows open system architecture principles**

#### **ARINC 404A ATR form factor**

### **OPTIONAL FEATURES:**

- > Human interface via MX hand controller or USB game controller
- > MX remote control system interface
- > Encrypted solid-state drive for video and data recording
- > Passive target location via DTED database
- > Automated multi-target tracker

### **BENEFITS:**

- > Enhances mission effectiveness by significantly improving image clarity
- > Greatly reduces detail-limiting effects of atmospheric turbulence
- > Provides system control interfaces, man-machine interfaces and video annotation functions

### **THE VPU™**

- > Delivers MISB-compliant H.265 compressed streaming video with integrated metadata
- > Hosts the modern, streamlined VeeConn man-machine interface, simplifying common operator tasks
- > Packs these features into a ruggedized ATR enclosure, based on the latest VPX standards
- > Operates with all Sonoma and Wescam turrets
- > Incorporates modern Intel CPU and NVIDIA GPU

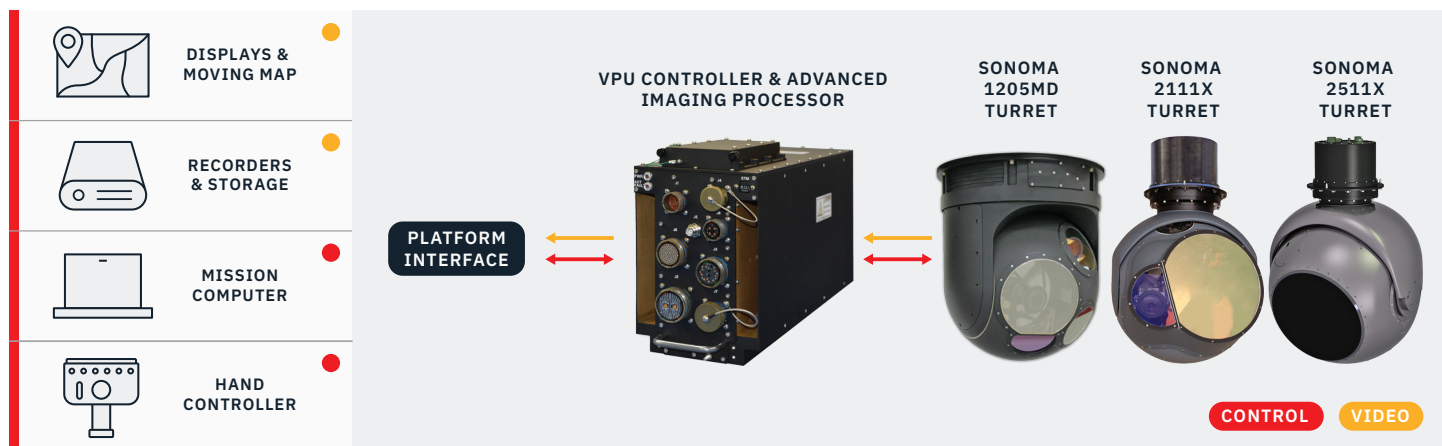


## Video Processor Unit

### DIMENSIONS AND FEATURES

- > 35 lb, 6.4" (W) x 9.0" (H) x 16.0" (D)
- > 250 W (typical), 350 W (maximum)

- > MIL-STD-461,
- MIL-STD-810, RTCA/DO-160



#### VPX-Based Next-Generation Video Processing Unit

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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