

## **SPARTIN™-AA**

### **Rugged Multi-Band Universal Receiver/Transceiver Antenna System**

The SPARTIN-Antenna Adapter (SPARTIN-AA) is an environmentally protected, portable, DC-powered adapter and extended range antenna that allows any L and S band radio, using its own encryption and waveforms, to remotely receive and/or transmit on seven different bands with Beyond Visual Line of Sight (BVLOS) range.

#### **PRODUCT DESCRIPTION**

VideoScout® is a family of video Processing, Exploitation, Dissemination (PED), management systems designed to capture, display, exploit, disseminate, and manage critical video intelligence from a variety of manned and unmanned sensors. The SPARTIN-AA further expands the VideoScout family of systems by providing users with a compact universal extended range portable antenna system designated for ground operations.

The SPARTIN-AA allows any L and S band receiver or transceiver to receive and/or transmit analog and digital signals in the UHF, L, S, C-low, C-high, Ku-low, and Ku-high bands with extended BVLOS range.

The SPARTIN-AA supports any length of off-the-shelf coaxial cable with a maximum insertion loss of up to 15 dB (approximately 100–500 feet depending on cable type) between the adapter and the antenna.

#### **SPARTIN-AA**

- > **Adapter Power Input:** The SPARTIN-AA operates with a 9 to 33 VDC input and a maximum current draw of 20 Amps
- > **Adapter Power Output:** The SPARTIN-AA provides a filtered 16V or 24V, 40 Watts
- > **Adapter Control:**  
The SPARTIN-AA is set up/controlled via a militarized USB connection using Insyte Software



#### **SPARTIN ANTENNA**

The SPARTIN antenna is a multi-band transceiver antenna designed to accommodate up to 15 dB of insertion loss over long cable runs and provide integrated multi-band elements.



Allows radios to receive and transmit via the multi-band SPARTIN Antenna

#### **KEY FEATURES**

- > Ruggedized, portable antenna adapter system
- > Can be mounted atop surveillance towers, rooftops, vehicles, or any other desired platform
- > Allows any L/S band radio to receive and/or transmit on UHF, L, S, C-Low, C-High, Ku-Low and Ku-High bands
- > Allows the antenna to be remotely mounted up to 500 feet from the radio

## PHYSICAL SPECIFICATIONS

- > External interfaces
  - Power input: 9-33 VDC, 71 Watts Maximum, per MIL-STD-1275D
  - Power output: 16V or 24V (specified at time of order), 40 Watts Maximum
  - USB interface: USB 2.0 Slave
  - Receive interface: Provides RF output from the antenna to the radio
  - Transmit interface: Provides RF output from the radio to the antenna
  - Antenna interface: Provides connection to the SPARTIN Antenna
- > SPARTIN-AA size: 7" (w) x 8.5" (d) x 2.28" (h)
- > SPARTIN-AA weight: < 4 lbs
- > SPARTIN Antenna size: 19.5" (h) x 4" (w)
- > SPARTIN Antenna weight: < 4 lbs (excluding optional vehicle mount)
- > Colors: Gray, tan or green

## ENVIRONMENTAL SPECIFICATIONS

- > Altitude (storage): MIL-STD-810H, Method 500.6, Proc I, 40,000 feet
- > Altitude (operating): MIL-STD-810H, Method 500.6, Proc II, 20,000 feet
- > Temperature (storage): MIL-STD-810H, Method 501.7, 502.7, Proc I, -46°C to +85°C
- > Temperature (operating): MIL-STD-810H, Method 501.7, 502.7, Proc II, -40°C to +65°C
- > Temperature shock: MIL-STD-810H, Method 503.7, Proc 1-C,
- > Rain: MIL-STD-810H, Method 506.6, Proc I
- > Humidity: MIL-STD-810H, Method 507.6, Proc II
- > Fungus: MIL-STD-810H, Method 508.8, Annex B
- > Salt Fog: MIL-STD-810H, Method 509.7
- > Dust: MIL-STD-810H, Method 510.7, Proc I
- > Sand: MIL-STD-810H, Method 510.7, Proc II
- > Vibration (operating): MIL-STD-810G, Method 514.6, Proc I, Cat 4

- > Vibration (storage): MIL-STD-810G, Method 514.6, Proc I, Cat 24
- > Vibration (shipboard): MIL-STD-165-1A, Type 1
- > Shock (functional): MIL-STD-810G, Method 516.6, Proc I, 40g, 11ms
- > Shock (transit drop): MIL-STD-810G, Method 516.6, Proc IV
- > Shock (shipboard): MIL-S-901E, Grade A, Class I, Type A
- > Conducted emissions: MIL-STD-461G, CE101, CE102
- > Conducted susceptibility: MIL-STD-461G, CS101, CS114, CS115, CS116
- > Radiated emissions: MIL-STD-461G, RE102
- > Radiated susceptibility: MIL-STD-461G, RS101, RS103
- > Electrostatic discharge: MIL-STD-461G, CS118
- > Safety: IAW MIL-882 for system safety



SPARTIN-AA  
(front view)



SPARTIN-AA  
(rear view)

SPARTIN Multi-Band Transceiver Antenna  
(with optional vehicle mount, PN: 430-1504-00X)

SPARTIN-AA (PNs: 700-1500-001 = Gray, 700-1500-002 = Tan, 700-1500-003 = Green)

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