**REQUIREMENTS STATEMENT**

**NAVAL WARFIGHTING DEVELOPMENT CENTER (NAWDC)**

**JOING CLOSE AIR SUPPORT (JCAS) BRANCH**

**ROVER 6S, RUGGEDIZED LAPTOP PC & ACCESSORIES**

**Background:**

Naval Aviation Warfighting Development Center (NAWDC) Joint Close Air Support (JCAS) Branch personnel have an evolving requirement to view aircraft targeting pod video downlink (VDL) during live fly range events from a Tactical Operations Center (TOC) and from observation posts (OP) at varying distances from target areas in the Fallon Range Training Complex (FRTC). Having the capability to view that information greatly enhances situational awareness, shortens the time to complete the mission, and greatly enhances safety.

**Scope:**

The ROVER 6S with the Enhanced Antenna Kit and Laptop will allow JCAS personnel to view the VDL from a greater distance than traditional hand held devices and it will work more effectively in a “noisier” radio frequency (RF) environment, such as NAS Fallon. An additional benefit is that this specific equipment is used throughout the DoD. Having the ROVER 6S in the JCAS inventory will allow local and visiting personnel to train with it for familiarization and proficiency.

**Requirement:**

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| --- | --- | --- | --- | --- | --- |
| **Item #** | **Manufacturer** | **Part Number** | **Description** | **QTY** | **Unit** |
| 1 | L3 Harris | 6000077200 | ROVER 6S Transceiver with KIV 700A Encryption Module integrated, Dual -Output Battery Eliminator (DOBE), transit case, mounting hardware and cabling (Antenna kit required and sold separately). | 1 | Each |
| 2 | L3 Harris | 6000077152 | ROVER 6 Enhanced RX and TX Kit (with KuDA OTM and E-CLS2 Antennas | 1 | Each |
| 3 | Panasonic | Laptop PC Kit | Windows based, ruggedized Laptop PC (FZ-G2 Panasonic Toughbook), Ruggedized power options, pre-loaded with Flightlens software. | 1 | Each |

A ruggedized laptop / tablet that will function in inclement weather while in the field (laptop or tablet mode), in side-by-side vehicles (tablet mode), in trucks (laptop or tablet mode), and in an operations center (laptop mode). Some specifics:

* Be the same device that deployed DoD service members are using so that they train with same equipment they will deploy with.
* MIL STD-810H and 461G… Military compliant with all required standards.
* Multiple interface options to handle different equipment it may be running or connected to (Ethernet, USB-C, USB-A, Serial…) such as GPS receivers, PRC-163, 117F, 167, 160, ROVER 6S, additional VDL radio’s (TAC ROVER-E, TNR, SIR 2.5,HHVDL), laser range finders, output to multiple larger displays (operations center)…
* The largest memory option and a fast processor for mapping/target data.
* Integrated GPS.
* Standard wireless options.
* Long battery life, 10 plus hours.
* Needs to support Flight Lens software that is proprietary to L3Harris and will be used with the ROVER 6S as well as, and often time simultaneously with (not an all-inclusive list, we have the software minus the Flightlens):
  + Tactical radio programs such as:
    - Tactical Chat, Tactical Chat IP
    - PDA-184
    - Windows Tactical Assault Kit (WinTAK)
    - Targeting software:
      * Precision Strike Suite for Special Operations Forces (PSS-SOF)
    - Typical Microsoft Office Software
* Must be able to be loaded with the Naval Special Warfare Mission Planning Software
  + A robust host of programs

In summary, the Panasonic FZ-G2 Toughbook that is included with the ROVER 6S kit fits all these requirements and is what is being currently fielded and is what is desired for use with the ROVER 6S. It will fill additional rolls therefore negating the need to purchase additional equipment.

Video Downlink Receiver with Antenna Requirements Statement:

Naval Aviation Warfare Development Center (NAWDC) Joint Close Air Support (JCAS) personnel have an evolving requirement to view aircraft targeting pod video downlink (VDL) during live fly range events from a Tactical Operations Center (TOC) and while in vehicles and in observation posts (OP) to train NAWDC Joint Terminal Attack Controllers (JTAC) and visiting units. This equipment needs to be the same equipment that Naval Special Warfare (NSW) and the other services deploy with to maximize training effectiveness and efficiency. NAWDC JCAS routinely conducts training with aircraft that are equipped with targeting pods. Having the capability to view that information greatly enhances situational awareness, shortens the time to complete the mission, and greatly enhances safety. The ROVER 6S with the Enhanced Antenna Kit and Laptop will allow JCAS personnel to view the VDL from a greater distance than traditional hand held devices and it will work more effectively in a “noisier” RF environment, such as NAS Fallon. An additional benefit is that this equipment is in use throughout the DoD and having it in the JCAS inventory will allow local and visiting personnel to train with it. The ROVER 6S is in NSW (SOCOM) vehicles, boats, and operation centers. It is in a variety of aircraft as well, for the example the AH-64E attack helicopter. Some specific requirements are:

* 2 channel real time full motion video downlink.
* Multi-band reception and transmission in UHF, L, S, C, and Ku.
* High-definition video encoding / decoding.
* Signal and waveform search.
* Transmit capable.
* Secure encryption/decryption.
* Various power options, battery and “shore” (battery eliminator).
* Man portable.
* Ethernet interface.
* Defense Advanced GPS Receiver (DAGR) compatibility.
* Increased range performance in congested RF environments (NAS Fallon, TOC location).
* Low noise amplifier.
* Interoperability with DoD assets.

In summary, the ROVER 6S with Enhanced Antenna Kit fits every requirement, is what’s being currently fielded, and is what NAWDC JCAS Branch requires for the successful execution of a variety of air to ground mission sets that are routinely conducted.

Quote must include delivery costs.

**ESTIMATED DELIVERY DATE: 120 days ARO (After Received Order)**

**DELIVERY ADDRESS:**

Kevin Sammons

4755 Pasture Road

BLDG 465 / ATTN: KMI Vault

Fallon, NV 89496-5000

**METHOD OF PAYMENT TYPE:** Wide Area Work Flow (WAWF)

**INSPECTION AND INVOICING:** Upon delivery, Government receiving agents will inspect for proper specifications and any other deficiencies. In the event of discrepancies, the vendor will replace items deemed unsuitable.