

Photo-Sonics Cine-Sextant Mobile Optics

Tracking Mount System

November 2, 2020

Statement of Objectives (SOO)

1. Overall Program Objectives

- Upgrade two existing Photo-Sonics Cine-Sextant Mobile Tracking Mounts to the most current configuration of Photo-Sonics Cine-Sextant Mobile Tracking Mount. The current tracking mount configuration is over 10 years old and originally designed to support high speed motion picture film cameras that are no-longer in the 30th Space Communications Squadron inventory. This effort is to 1) update camera integration of new digital camera configurations and 2) upgrade the tracking mount control systems that is no longer commercially supported.

2. Requirements

- Upgrade tracking mount drive control systems.
- Update tracking mount camera interfaces to accept new digital camera technology.
 1. FLIR Camera Systems RS6800, RS6700 and SC8303 model cameras to include the FLIR HSDR CoaXpress and RCLINK connections.
 2. Vision Research Phantom HS Cameras to include the V341 and 4K FLEX camera systems.
 3. Commercially available HD Broadcast video camera systems.
- Integrate the Photo-Sonics PANDA system microwave control link into the tracking mount.
- Provide one RCU with Consolette unit (PANDA) MFR PN 96-1869.
- Update video distribution system to support HD video and to integrate into the tracking mount control system. GFE video equipment will be provided for integration and testing. This will include but not limited to video recorders, monitors and video time insertion units and video switchers.

3. Logistics Objectives

- Vendor is to provide all COTS equipment required to perform the upgrade effort with the exception of the following GFE camera equipment and lens.
 1. FLIR High Speed Mid Wave IR Camera Systems – RS6700, RS8300 and SC8300 camera systems
 2. Phantom High Speed Digital Video Camera Systems – V341, 4K FLEX and V2640 UHS camera systems
 3. IO Industries 2K FLARE IR Camera
 4. Standard HD broadcast video cameras

5. Black Magic Hyper Mini Deck Recorders
6. Black Magic 12 X 12 Video Switcher
7. HD Video timing insertion units

4. Training

- Operator and maintenance training for 20 government personnel is required upon completion of the upgrade service to be conducted at Vandenberg AFB.

5. Period of Performance

- 365 days after acceptance of order by vendor

6. Place of Performance

- Vendor location of business. The government will deliver and pick up the tracking mount system within 150 Miles of Vandenberg AFB. The Government reserves the right to witness acceptance testing at the contractor's location prior to Government acceptance of completed work.

7. POC Information:

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