

## AN/UAS-4A Infrared Surveillance System

Status: STD-A; NSN: 5850-00-930-0159

Reference: TM 11-5850-217-15  
TM 11-5850-218-12  
TB 43-0123

### General Information

The AN/UAS-4A provides facilities for air-to-ground surveillance during both daylight and darkness hours. Unlike an ordinary photographic system, it uses infrared radiation-detection techniques to provide visual displays and photographic film recordings of the surveillance area. The AN/UAS-4A utilizes dual-channel operation to obtain surveillance data. The airborne components consisting of Infrared Detecting Set AN/AAS-14( ) and Radio Transmitter AN/ART-41A are currently installed in the OV-1( ) surveillance aircraft.

The AN/AAS-14( ) collects infrared radiation from the terrain below the aircraft. The collected radiation is processed to provide the airborne operator with a visual (television-type) presentation of the terrain over which the surveillance aircraft is flying. Simultaneous with the visual display, a permanent-record photographic film recording of the terrain below the surveillance aircraft is produced. Present position data, altitude data, and fixed data are printed on the edge of the film to aid image interpreters.

The AN/ART-41A is used to telemeter information, which is gathered and processed by the AN/AAS-14( ), to the ground component of the AN/UAS-4A.

### Technical Characteristics

Power Input-----28 V DC and 115 V AC, 400 Hz, 3-phase  
Power Source-----Aircraft power system  
Weight-----284.7 kg (627.0 lb)

NOTE: For additional information refer to TM 11-5850-217-15 and TM 11-5850-218-12.

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