

Airborne Wide Area Persistent Surveillance System (AWAPSS)

The AWAPSS system satisfies the urgent need for persistent, day/night overhead surveillance of today's asymmetric environments. Blanketing a footprint of 8 kilometers in diameter, AWAPSS delivers near real-time imagery with abundant storage for analysis of current and past events. It can be integrated with fixed-wing, rotary-wing, and unmanned platforms to support a variety of mission scenarios.

Full field of view, 8 kilometers simultaneous day/night



The system offers a variety of capabilities, including mission planning, sensor control, mode selection, tracking, and data analysis.



21 inch (53 centimeter) AWAPSS Turret

Specifications

Sensor type

Dual band sector scan panoramic, auto exposure, par-focalized

Visible resolution, 20K' SR. .75 meters

IR resolution, 20K' SR 1.0 meter

Frames per second Field selectable 1 or 2 hertz

Bits per pixel 12 Vis, 14 IR

Coverage 68 AT x 60 XT degrees

Performance

Flight hours >30,000 hours

Visible brightness range 50 to 8,000 foot lamberts

NEDT 40 milli Kelvin

Persistent image area diameter 8 kilometer

Sensor turret

Size 21" diameter x 27" high (53 centimeter diameter x 68 centimeter)

Weight 212 pounds (96 kilograms)

Average power 500 watts

Features

Provides continuous day/night wide-area motion imagery to detect and track moving vehicle and dismount targets

Integrates with fixed-wing, rotary-wing, and unmanned platforms to support a wide variety of mission scenarios, including urban surveillance, port surveillance, and border surveillance

Provides a complete dissemination suite with ground station, data link, and exploitation capabilities

Extremely compact system incorporates dual-band large format imaging in a 21 inch diameter turret with simple bolt-on platform interface

Satisfies the rigors of military operational environments with self contained control of vibration, temperature and aerodynamic loads

Providing reliable **surveillance** and **image analysis** capabilities since 2010

Full field of view, 8 kilometers simultaneous day/night



20x zoom



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