SATLINK HAWKEYE™

B.L.O.S.

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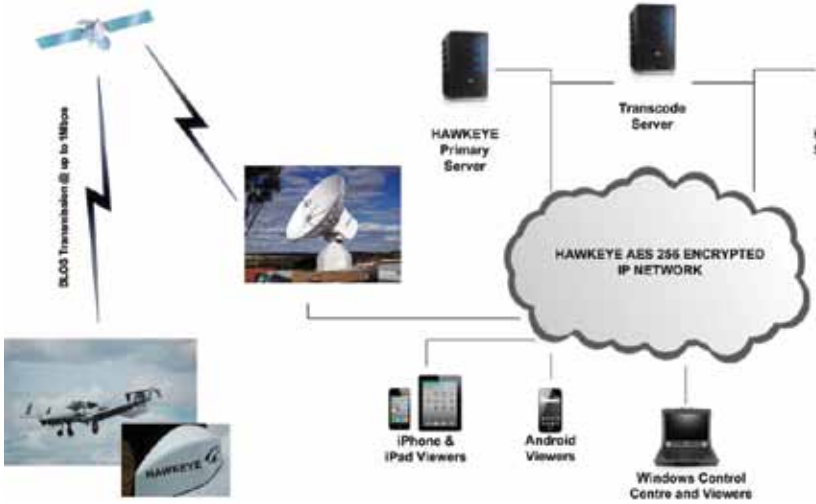
BEYOND.LINE.OF.SIGHT AIRBORNE SURVEILLANCE

ADVANCED TECHNOLOGY LIVE VIDEO

- LOW COST
- LIGHTWEIGHT
- MULTI VIEWER PLATFORMS
- PLATFORM AGNOSTIC
- AES256 ENCRYPTED
- Up to 1Mbps VIDEO

BENEFITS & KEY CAPABILITIES

- LIGHTWEIGHT, WEIGHING LESS THAN 12KGS
- LIVE REAL-TIME LOW LATENCY FULL MOTION VIDEO
- SATELLITE LINK OFFERS UP TO 1MBPS *(PLATFORM SPECIFIC)*
- CAN UTILIZE ANY NTSC (OR PAL) VIDEO SOURCE
- SIMULTANEOUS FULL DUPLEX VOICE & DATA COMMUNICATIONS
- HIGH RESOLUTION IMAGE CAPTURE & SNAPSHOTS
- SECURE IP SERVER ARCHITECTURE
- MULTI VIEWER PLATFORMS FOR MOBILE COMMAND & CONTROL



TECHNICAL SPECIFICATION

Hardware

Physical Size (including connectors):
L 210mm x W 190mm x D 75mm, Weight 1200g

Operating Temperature:
-32ºc to +70ºc, non-condensing

Storage Temperature:
-40ºc to +90ºc

Input Voltage:
DC 9V-36V

Rating:
DO160E

Power Consumption:
7W max
5.5W nominal <1.5W Standby mode <0.1W Sleep mode

Camera Input:
2 x BNC composite input

Video Input Format:
PAL / NTSC / SECAM

Front Panel Connectors

USB Configuration of the unit is via USB. The USB connector has been provided to allow connection to serial based devices.
RJ45 RJ45 Ethernet connector for BGAN and network lines.
Video Input Amphenol BNC connector for Camera 1.
LEDs Used for information on start up and configuration.

Rear Panel Connectors

Video Input Amphenol BNC connector for Camera 2 Power.
A 3 pin amphenol 62GB connector is provided to support aircraft or battery operation.
A 10 pin amphenol 62GB connector is provided to support a Synchronous RS232 serial connection for military radios.
A 10 pin amphenol 62GB connector is provided to support a Asynchronous RS232 serial connection for commercial radios.
A 7 pin amphenol 62GB connector is provided to support RS422 / RS485 for control of cameras or other devices.

Communications

Network Connectivity: 10/100 RJ45 Ethernet connector for ADSL and network lines.
Satellite Connectivity: 10/100 RJ45 Ethernet for Inmarsat Aero SB Lite.
Synchronous Connectivity: 10 pin Amphenol 62GB connector.
Asynchronous Connectivity: 10 pin Amphenol 62GB connector.
PTZ Connectivity: 7 pin Amphenol 62GB connector for camera control via RS422 or RS485. Currently supports Pelco P & D, Canon VC-C4/5, Sony Visca, David Horn.
Other protocols may be integrated on request.
Bandwidths Supported: 4Kbps to 1.5Mbps.

Software

Viewers Supported: Software available for Windows PC, and Windows Mobile 5/6.
Video Frame Sizes Supported: From 128 x 96 up to 352 x 288 (CIF) at frame rates of 0.1 to 25fps (PAL).
High Resolution Image Retrieval: Enhanced definition (up to 704 x 576) over user-definable areas via high quality JPEG.
Encryption: Built in AES 256 encryption in addition to support for IP Sec VPN connections.
Minimum Server Specification: 2GHz Processor, Windows Server 2003 or Linux preferred, 512mb RAM, Sun Java JRE 1.5.0 or later.

KEY POINTS

• Dual Video

Dual video inputs to allow for 2 camera operation and for remote selection of the desired camera feed.

• Form Factor

The unit is designed to be as compact and robust as possible, and has DO160E rating with no moving parts for silent operation. Small enough to be installed where necessary onboard any desired location on the aviation platform.

• Power

One of the key requirements of the unit is low power. Even when encoding at the maximum frame rate of 25fps, the power requirement is less than 8.5 watts and this will reduce significantly when using military radios over reduced bandwidths. Nominal figure 5.5 watts. An additional feature of the system is standby mode, sub 1 watt, plus a sleep mode effectively reducing power requirement to 0.1 watt when not actively in use.

• Communications

Satellite connectivity for Inmarsat Aero SB Lite is available via the RJ45 Ethernet port. Synchronous connectivity for Military Satcom radios such as the AN/PRC117F via the dedicated Synchronous connector or via the RJ45 Ethernet port for Military IP enabled radios. Asynchronous connectivity for commercial radios via the dedicated Asynchronous connector.

• Configuration

The unit is configured via USB key pen which can be undertaken in advance or in the field. The software ensures that the previous configuration is always stored locally and is therefore available should re-configuration fail for any reason.

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