Troll’s DAVIE is a data control device and network hub designed to provide bidirectional voice, video and data to airborne vehicles. The first of its kind, DAVIE integrates air-to-ground microwave data-link signal acquisition, tracking, camera control, video processing and secure IP networking to and from your aircraft.

User friendly and easy to set-up the DAVIE features intuitive operator modes that simplify complex transmission systems while providing advanced users with the ability to further refine their systems. Used primarily to support bi-directional communications, the DAVIE can act like a client or a server so your ground or air crew can optimize the transmission from their site on the network.

Acting as a remote network server or client, the DAVIE provides POWER to, and CONTROL of:

- Antennas and Link Performance
- Calibration and Tracking
- Transmission Frequency, Modulation, Range and Bitrate
- Data Transmission and Reception Priority
- Transmitters and Receivers
- Video and Audio Encoding, Decoding, Recording and Encryption
- Multi-Format Video Transcoding, Fiber Links and Transport Streams
- Routers, Laptops, Digital I/O and other IP Devices in the Air or on the Ground

For the operator, the DAVIE features:

- Large touch screen displays or remote PC control
- Preset modes that quickly allow operators to optimize performance
- Antenna calibration based on the of the receive signal
- On-the-fly ability to send and receive commands as a client or server.

▶ Airborne Microwave Control System
▶ Touchscreen Display
▶ Multi-format Encoding for Efficient Repurposing of Video Content
▶ Operator Modes Make Complex Transmission Tasks Simple to Optimize
▶ Optional Night Vision Mode
▶ Intuitive Software

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- Tracking
- Transmission Frequency
- Modulation
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- Bitrate
- Data Transmission
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- Decoding
- Recording
- Encryption
DAVIE

Data and Video IP Encapsulator

PHYSICAL CHARACTERISTICS

Size: 19” 3U
Weight: 28 pounds
Input Voltage: 120/240 VAC - 28 VDC
Input Current: 1 A nominal, 24 A max with external loads
Output Voltages: 4 X 28 VDC (up to 7 A each or 20 A total)

Output Voltages: 3 X 12 VDC (9 A total)

Video Display: Backlit TFT LCD, 320 X 240 pixels with 64,000 colors
Operating System: Windows
Program Storage: Type 1 Compact Flash
Data Ports: Multiple HD/SD/DVI/ Composit/ASI/Ethernet and Serial

Data Ports: 2 Ethernet 10/100

Data Ports: 2 USB

FEATURES

Data and Video Processor: Highly configurable data and video processor - encodes, decodes, transcodes, encrypts and provides a control interface for bidirectional airborne or ground data link antennas and transmitters
Input Controls: System controlled via touchscreen or USB keyboard can be used for data entry.
BIT (Built In Test): Comprehensive internal testing including monitoring input/output voltages and currents, internal temperature and serial port status, settings and error rates.

OPTIONS

GPS: Built in 16-Channel GPS. Drivers available for external GPS (Consult factory).

Compass System: Analog ARINC-407 compass input available.
Tracking Data: Internal tracking data encoder RS-232 or audio output available. Supports NavTrack, LogicTrack I and II. (Other protocols, consult factory).

Video Input: Supports two HD/SD/Composit inputs (live video) and ASI

Video Output: ASI Output/ 2 DVI / HDSDI

TOUCHSCREEN SOFTWARE INTERFACE

Visit us at our website for product and corporate information sessions. See video imagery of this system.

www.TROLLSYSTEMS.com

Specifications subject to change without notice.