



PacStar 1419 Tactical Video Transcoder



The PacStar 1419 Tactical Video Transcoder powered by Haivision's industry leading Kraken technology. It is designed for tactical users who require small form factor, high performance IP video transcoding. The PacStar 1419 with Kraken ISR provides extreme low latency transcoding of metadata-rich full motion video for military intelligence, surveillance, and reconnaissance (ISR) applications. It is designed for transport stream to transport stream transcoding and transrating to resolve satellite video distribution challenges and securely redistribute digital video broadcasts over bandwidth limited networks.

The PacStar 1419 provides industry-leading video transcoding and transmission for up to 2 simultaneous HD streams. The PacStar 1419 is designed to complement tactical solutions such as the PacStar 2000 and 4000-series tactical systems or other existing tactical solutions.

KEY FEATURES

Transcoding Specifications Capability

- (2) HD streams or (4) SD streams

Sources

- Makito, Barracuda, Piranha Encoders
- 3rd Party Encoders
- Digital Video Broadcast

Input MPEG-2

- MainProfile@MainLevel (SD)
- MainProfile@HighLevel (HD)
- Transport Stream
- 0 kbps - 15 Mbps
- CBR, VBR

Input H.264

- Baseline, Main, High Profile
- Up to Level 4.2 (1080p60)
- Transport Stream
- 0 kbps - 20 Mbps
- CBR, VBR

Output H.264

- Baseline, Main
- Up to Level 4.2 (1080p60)
- Transport Stream
- 0 kbps - 20 Mbps
- VBR, Capped VBR, CBR

Metadata

- KLV Preserved with Sync
- Time Code Preserved with Sync
- CC Preserved with Sync (EIA-708)

- MISP & SMPTE compliant metadata support including MISB standard 0601 and SMPTE 336M-2007
- Proprietary metadata conversion to MISB standard compliant formats

Video Processing

- De-interlacing
- Down Scaling
- Aspect Ratio Conversion
- Frame Rate Decimation

Networking

- Single Program Transport Stream
- Unicast/Multicast
- TS over UDP

Management

- Web User Interface
- ReST API
- SSH
- Console

PHYSICAL SPECIFICATIONS

Processor

- Intel i7, Quad Core

Other System Specifications

- 8 GB DDR3 SO-DIMM
- Serial ATA III interface with 600MB/s transfer rate
- Up to 480 GB removable 1.8" SSD, with activity LED - providing a 100% solid state solution

Connectors

- 3 Intel Gigabit Ethernet ports
- RS-232 9-pin console port
- VGA output (Diagnostics)
- 2 USB 2.0 Ports
- Ruggedized and locking DC input connector

Environmental Specifications

- Dimensions 6.75" x 5.10" x 1.70"
- Weight 2 lbs
- Operational temperature range 0C to 55C
- Now available: Extended low temperature model "-ET" with operational temperature range down to -20C
- MIL-STD 810G Method 514.6 Operational Vibration (General, Rotary Aircraft, Ground Vehicle)
- Remaining MIL-STD 810G tests in process
- Operational temperature
 - Storage temperature -50C to 85C
 - Humidity 0-95% non-condensing

Power Specifications

- Power requirements:
 - 40 watts nominal
 - 60 watts peak
- Power input: 10-36 V DC with indicator LED

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