4 HD Videos & 4K HEVC Codec

The Airborne Lau-K is the new HEVC codec developed by SVP Broadcast Microwave specially designed for transmission of 4 Full HD videos generated by the airborne cameras or one single 4K video.

HEVC offers many advantages over AVC; higher compression rates which results in significant bitrate savings over traditional AVC solutions. This additional efficiency of HEVC encoder makes wireless transmission of 4K possible at lower bitrates.

This ruggerized codec has been designed for live applications such as transmissions from helicopter to ground, helicopter to boat and boat to boat applications.

Latency is critical in many broadcast applications and Lau-K codec has been designed to minimize latency without compromising quality, making this codec suitable for all live events.

The Airborne Lau-K compresses a single 4K UHD input or up to 4 HD of 1080p60 inputs in one unit. Each input can support 2 stereo pairs of embedded audio.

It can be configured as encoder or decoder manually by the end user.

**FEATURES**

- High quality HEVC codec
- Low latency (2 frames)
- 4K UHD
- Supports 4 simultaneous HD 1080p60
- Ruggerized design
- DO-160 pending

**APPLICATIONS**

- High performance Encoder and Decoder
- Airborne and Naval Data Link

www.svpbm.com
## Characteristics

**Video Encoder/Decoder**
- **Modes:** HEVC, AVC and MPEG-2
- **Number of Videos:**
  - UHD = 1 (4K), HD = 4 (1080p/60)
- **Profiles:**
  - 4K UHD (3840 x 2160 pixels) 4:2:2/4:2:0, 8/10-bit
  - 2160p - 23.98/24/25/29.97/30/59.94/60
  - HD: 4:2:2/4:2:0, 8/10-bit
  - 720p - 50/59.94/60
  - 1080p - 50/59.94/60
  - 1080p - 23.98/24/25/29.97/30/59.94/60
- **End to End Latency**
  - Encoder + Decoder: UHD 60p = 66ms
  - UHD 50p = 75ms
  - HD 60p = 55ms
  - HD 50p = 70ms
  - HD 60i = 83ms
  - HD 50i = 98ms

**Stream Inputs**
- **DVB_Ask:** Transport stream to 40Mb/s
- **IP Interface:** Primary: Gigabit Ethernet

**Genlock In**
- **Format:** Tri Level Composite

**Control**
- **Remote:** Web server

**Mechanical dimensions**
- **Size (WxDxH):** 150 x 68 x 162 mm
- **Weight:** 1200 g

**Power**
- **Voltage In:** 9 - 36V (Reverse polarity protected)
- **Consumed Power:** 20 W

### How to Order

**Airborne Lau-K-E**

- **E** = Encoder & Decoder
- **D** = Only Decoder

**Connectors**
- **HDSDI 3G 1-4:** Mini BNC
- **ASI In:** Mini BNC
- **ASI Out:** Mini BNC
- **Genlock:** Mini BNC
- **Audio/Ethernet Control:** Amphenol JD38999/20WC3SSN
- **TS over IP:** CINCH C-RJFTV5E17021G M
- **Power:** Amphenol PT02A-12-3P

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[Image of the product with the product information and how to order details]
Mechanical dimensions

Airborne Lau-K

Design and specifications are subject to changes without prior notice. 12/18