

## DECODER HEVC (H.265) - UHD (4K)

**AVANTOS UHD** is a video decoder designed with the latest technology for professional UHD (4k) Broadcast environments. AVANTOS guarantees reliability, low latency and high video quality processing for distribution and contribution.

### KEY POINTS

- HDR Signalling
- 4 x 3G SMPTE ST-424 outputs
- UDP, RTP with FEC SMPTE 2022-1/2
- Supports HEVC/H.264/MPEG2
- IP Flow forwarding
- Hot-swappable redundant PSU (AC/DC)

### APPLICATIONS

- 4K (UHD) Decoding
- Contribution (4:2:2 , 10 bits)
- Distribution (4:2:0, 8/10 bits)
- Multicast/Unicast
- Decryption BISS 1/E

HEVC (4k) UHD 4:2:2

HEVC (4k) UHD 4:2:0

HEVC HD/SD 4:2:2

HEVC HD/SD 4:2:0

H.264 4:2:2/4:2:0

MPEG-2 4:2:2/4:2:0

IP

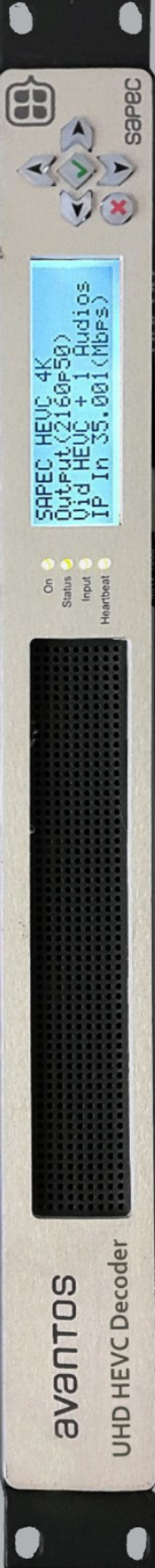
**4K  
ULTRA HD**



Profile	Modelo*	
	VUD5200	VUD5000
HEVC Main10/8@L6	●	●
HEVC Main 422@L6	●	○

\* Model numbers can slightly vary from the examples given according to the final HW/SW configuration of the unit

●	By Default
○	Optional



## TECHNICAL SPECIFICATIONS

### VIDEO OUTPUT

#### Digital outputs

**Num. Outputs:** 4 x BNC

**Impedance:** 75 Ω

#### Formats:

3G-SDI (SMPTE 424M): 1080p50, 1080p60, 1080p59.94

HD-SDI (SMPTE 292M): 1080i50, 1080i59.94, 1080i60,  
720p50, 720p59.94, 720p60

SDI (SMPTE 259M): 625/25Hz, 525/29.97Hz

ST425 UHD mapping (configurable):

Line Image Division into Four Sub Images

Annex b: Square Division

### VIDEO DECODING

#### Standards and profiles

**HEVC Main10/8@L6**

**HEVC Main 422@L6**

Additionally, supports all profiles of

HEVC HD/SD, H.264 HD/SD and MPEG2 HD/SD

#### Types of Bitrate

CBR, VBR

#### Resolutions:

3840 x 2160: 1920 x 1080p (on each 3G-SDI output)

#### Output 1:

**525:** 720 x 480, 704 x 480, 528 x 480, 352 x 480

**625:** 720 x 576, 704 x 576, 528 x 576, 352 x 576

**1080i:** 1920 x 1080, 1440 x 1080, 960 x 1080

**720p:** 1280 x 720, 960 x 720

**1080p:** 1920 x 1080, 1440 x 1080, 960 x 1080

### AUDIO DECODING

#### Embedded outputs

**Num. outputs:** Up to 8 pairs on output 1, 3G-SDI

#### Decoding standards

MPEG-1 Layer II (ISO/IEC 11172-3)

MPEG-4 AAC (LC/HE v1, HE v2)

Pass-through Dolby Digital (AC3) and Dolby Digital Plus (EAC3)

PCM and SMPTE 302M (transparent Pass-through ) 16/20/24 Bits

### INPUT INTERFACE

Video over IP

**Num. Inputs:** 2x RJ-45

**Interface:** 2x 10/100/1000 Mbps

**Encapsulation:** TS over IP: UDP, RTP with FEC SMPTE 2022-1/2  
(Multicast/Unicast)

### OTHER CHARACTERISTICS

#### Management and control

Full configuration via front panel, web interface and SNMP.

#### Power Supply

**Range :** AC 100 - 240 VAC, 50/60Hz or DC 40 - 60 VDC

**Typical consumption:** < 150W

#### Physical characteristics

**Dimensions:** 19" x 1RU x 500 mm

**Weight:** 10 Kg

**Operational temp:** 0°C to 45°C

### HARDWARE OPTIONS

#### Redundant Power supply unit

**Range :** AC 100 - 240 VAC, 50/60Hz or DC 40 - 60 VDC

### SOFTWARE OPTIONS

#### Video Decoding

By a license key installation, is possible to the upgrade the equipment to any supported standard and/or profile.

#### External Synchronism input

**Num. Inputs:** 1 x BNC (Black burst / Trilevel)

#### Additional audio PID licenses

MPEG-1LII and MPEG-4 AAC

#### Decryption

BISS-1 y BISS-E

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