

**Sivac-one COMPACT** is a robust broadcast quality encoding/decoding solution designed in a portable, low weight, **very low consumption** platform to perfectly fit in most demanding live video applications where **simplicity**, **reliability** and **low-latency** are the key requirements.

**Sivac-one COMPACT** is a real-time **HEVC/H.265** video encoder/decoder that can process a 2160p50/60 **4K UHD** video source (**HDR, WCG**) or up to 4x 1080p50/60 FHD with 10-bit pixel depth, 4:2:2/4:2:0 chroma and up to 16 channels of digital audio embedded (stereo).

**Sivac-one COMPACT** offers in addition to a robust and reliable video transport, a latency as low as <150ms (End to End), which makes it an ideal solution for interactive video applications such as field sports contribution, live events, Broadcast news or remote production.

**Sivac-one Compact** offers the versatility of being configured as **Encoder or Decoder**, and a wide range of interfaces to adapt to different needs: 12G/4x3G/HD/SD-SDI, ASI and IP UDP/RTP with **FEC SMPTE 2022-1/2/7** (Multi/Unicast).



### KEY FEATURES

- Encoder or Decoder configuration
- 1xUHD (4K) channel or Up to 4x FHD/HD/SD
- 4x3G or 12G-SDI (UHD mapping ST425)
- HDR, WCG, SMPTE 2022-1/2/7
- ETR-290 Measurement (Decoder)
- Easy operation through intuitive WEB GUI

### APPLICATIONS

- Live Event Contributions
- Remote Production encoding
- Broadcast News
- Low latency video transport

# Sivac - one COMPACT

## TECHNICAL SPECIFICATIONS

### VIDEO INTERFACES (SDI)

**Num. :** 4 x BNC 75  $\Omega$

**Formats:**

12G-SDI (SMPTE 2082): 2160p50/59.94/60

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

HD-SDI (SMPTE 292M): 1080i25/i29.94/i30, 720p50, 720p59.94, 720p60

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

UHD mapping: SMPTE 425-1 Level A and Level B (2 Sample Interleave (2SI) or 4 quadrants)

HDR: HLG10 Backward Compatible, HLG10, HDR10, PQ10.

WCG: BT.2020, BT.709

### EMBEDDED AUDIO

**Num.:** Up to 8 PID (Stereo) (1x UHD)

Up to 16 PID (Stereo) (4x SD/HD/FHD)

### VIDEO ENCODING / DECODING

**Formats and profiles**

1x HEVC UHD Channel: 4:2:2 & 4:2:0, 8 and 10 Bit

[HEVC Main10/8@L6 & Main 422@L6]

4x HEVC SD/HD/FHD Channels: 4:2:2 & 4:2:0, 8 and 10 Bit

[Up to H.265 Main10 422@L4]

**Resolutions**

Up to 3840 x 2160 in UHD

Up to 1920 x 1080p in HD

### AUDIO ENCODING / DECODING

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 (Pass-through) 16/20/24 Bits

### ASI/IP INTERFACES

**Video over IP**

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

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

**Encapsulation:** TS over IP : UDP, RTP with FEC SMPTE  
2022-1/2/7(\*) (Multicast/Unicast), Connection control  
2 simultaneous flows

**ASI output interface:** 2 x HD-BNC (188 bytes TS)

### SOFTWARE OPTIONS

**Video encoding / decoding**

Number of channels and coding mode:

- 1x UHD Encoding / Decoding
- Up to 4x FHD/HD/SD Encoding / Decoding

**Additional Audio PID License**

4xPID MPEG-1LII and MPEG-4 AAC

Dolby Digital (AC3) and Dolby Digital Plus (EAC3) (\*)

**Scrambling:** BISS -1/E

**Logo insertion:** Format: bmp image with alfa channel (transparency)  
X-Y axis. Time interval, visible time

### PHYSICAL CHARACTERISTICS AND CONTROL

**System Management**

Full configuration by webpage and REST FULAPI and SNMP Traps

**Power**

2 DC Power inputs supporting redundancy

**Voltage :** 12 VDC

**Typical consumption:** < 35 W

**Dimensions:** 375mm x 158mm x 43mm

**Weight:** 1.4 Kg (excl. external power supply)

**Operating Temp.:** 5°C to 40°C

(\*) Check availability / Road map

[WWW.SAPEC.ES](http://WWW.SAPEC.ES)

