

H.264 - 4:2:2 Decoder

The new HDE-70 features H.264 and MPEG-2 decoding for high definition (HD) and standard definition (SD) signals. H.264 compression enables HD signal transmission and reception using 40% lower bitrate than conventional MPEG-2 systems. Moreover, HDE-70 works in 4:2:2 with 10 bits.

This device decodes input TS signals of up to 320 Mbps, and offers the highest video quality with minimum end-to-end latency available in the market, 33 ms. For added security, encrypted transmitted signal can be decrypted using BISS or AES decryption technology (optional).

It features Video over IP and remote control via the Ethernet port. Thus, this decoder provides a choice of IP or ASI network interfaces allowing deployment of services over IP networks or traditional video networks.

The HDE-70 has been designed to be 1U rack mountable.

SVP has reached the state of the art and the HDE-70 decoder has been designed to be used in broadcast, security and military field applications.



H.264 4:2:2 10 bits

FEATURES

- Superior decoding quality and performance (NTT technology).
- H.264 HD/SD 4:2:2/4:2:0 decoder.
- Highest video quality available: 1080p/50, 1080p/60, 3G-SDI.
- Lowest Delay in H.264: 33 ms.
- Output signals: Video, HD/SD-SDI, 3G-SDI and HDMI.
- ASI and Transport Stream over IP with FEC.
- 2 stereo audio channels: analogue, AES digital, SDI and HDMI embedded.
- Maximum input bitrate: 320 Mbps.
- BISS-1 and BISS-E encryption.
- AES-128 and AES-256 encryption (optional).
- Extended range AC and DC power supply.
- Alarm and warning monitoring.

APPLICATIONS

- ENG/OB
- SNG
- High-performance decoder.
- Point-to-Point IP radio link

Characteristics

Decoder

H.264:	Profiles: Baseline, Main, High, High 422 Support 10 bits Level: 4.1 - 4.2 Latency: 33 ms
MPEG-2:	Profiles: 422P@HL, MP@HL, 422P@ML MP@ML
Audio decoder:	MPEG-1 Layer I/II
Max. input bitrate:	320 Mbps
Genlock input:	Black burst or tri-level, Genlock loop

Decryption

BISS:	BISS-1 and BISS-E
AES:	AES-128 and AES-256 (optional)

Video

Outputs:	3G-SDI HD-SDI SD-SDI HDMI (1.4a) Composite video (PAL/NTSC)
Formats:	1080p (1920x1080) - 23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60 Hz 1080i (1920x1080) - 50/ 59.94/ 60 Hz 720p (1280x720) - 23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60 Hz 576i (720x576) - 50 Hz 480i (720x480) - 59.94 Hz

Audio

Output :	SDI embedded/ AES Digital / Analogue / HDMI embedded
Analogue:	2 Stereo/ 4 Mono
SDI embedded:	1 Group (4 audio channels)
AES/EBU:	2 Stereo channels

Data Channels

Data channel:	User data or GPS
Data rate:	1,200 to 57,600 bps

ASI and IP

Output and Input:	ASI transport Stream (EN50083-9) Transport Stream over IP (SMPTE2022/CoP3) - FEC Max. TS packets / IP packet: 7
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Control and Monitorization

Control Interfaces:	Front panel and display Web Server SNMP
Monitoring:	Decoding parameters Alarms, warnings and logbook
Video & Audio	TFT Video screen 2" 2 x Stereo loudspeakers Earphone output

Power Supply

AC input:	100 to 240 V
DC input:	11 to 36 V
Consumption:	40 W

Mechanical

Size:	1 RU, 236 mm depth (without connectors)
Weight:	3 kg

Environmental

Temperature range:	-10 to 45 °C
Height:	4,500 m
Humidity:	95%



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How to order

H D E - 7 0 - A



A = AES
0 = No AES

AES Decryption

Design and specifications are subject to changes without prior notice. 01/19