

The UDT-02 is the new multiband and multifunction transmitter developed by SVP Aerospace. Its characteristics, achievable only by SVP, make this transmitter the most advanced in the market today.

It features HEVC, H.264 and Mpeg-2 encoding for 12G, high definition (HD) and standard definition (SD) signals with ultra-low latency. HEVC allows the same video quality, reducing file sizes by up to 50% compared to its predecessor, the H.264.

Among the improvements of this new transmitter is the ability to transmit one 4K UHD signal with HDR at 10-bit 4:2:2 quality or 4 simultaneous 1080p50/59HD signals.



ACCESSORIES



AVF



PA Ultralinear



RTC-04

FEATURES

- Ultra Wide RF: 1 GHz to 4 GHz, 3-4 GHz and 4-8 GHz (Optional).
- DVB-T2 modulation.
- Low Latency (60ms glass to glass) for live applications.
- Transmission of true 4K UHD signals in 12G.

OPTIONS

- Vmount clamping system.
- Remux.
- AES 128 and AES 256 Encryption.
- Integrated GPS Receiver.
- KLV Metadata embedded on SDI.
- Bidirectional camera control with Tally.
- 3-8 GHz band.
- Transmission of 4 simultaneous videos up to 1080p50/59HD.
- TS Over IP Output

APPLICATIONS

- High performance Encoder.
- Camera transmitter (mount clamping system optional).
- Operation in different countries (without changing RF module).

CHARACTERISTICS

RF STAGE DVB-T2 & DVB-T

Frequency range:	1 GHz to 3GHz 3 GHz to 4GHz (Optional) 4 GHz to 8GHz (Optional)
Max. Output power:	100 mW (1 GHz to 3 GHz selectable from -5 to +20 dBm) 50 mW (3 GHz to 8 GHz)

MODULATION

DVB-T2:	COFDM 1K, 2K, 4K mode. QPSK, 16QAM, 64QAM, 256QAM. Constellation rotation.
DVB-T:	LDPC FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6. IG: 1/8, 1/16, 1/32. Bandwidth: 1.7, 5, 6, 7, 8 MHz. Max bitrate: 46.4 Mbps.

VIDEO

Inputs:	1 x 12G-SDI. 4 x 3G, HD, SD-SDI (Optional).
Formats:	2160p – 23.98/24/25/29.97/30/50/59.94 /60 Hz. 1080p – 23.98/24/25/29.97/30/50/59.94/60 Hz. 1080i – 50/59.94/60 Hz. 720p – 23.98/24/25/29.97/30/50/59.94/60 Hz. 576i – 50 Hz. 480i – 59.94 Hz.

AUDIO

Quantity:	16 channels (8 pairs).
Analogue Input:	2 pair Line / Mic level.
Formats:	Embedded or Analogue.
Analogue Max. Level:	24dBu (Balanced).
Phantom Power:	48V Phantom Power.

TEST SIGNALS

Video:	Bars.
Audio:	16 Audio tones.

DATA CHANNELS

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

ASI

Input and Output:	ASI Transport Stream.
Remux (Optional):	ASI Remux.

IP

Output	Transport Stream over IP (Optional)
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ENCRYPTION

BISS:	BISS-1 and BISS-E.
AES (Optional):	AES-128 and AES-256.

ENCODER

Video compression:	HEVC, H.264 and MPEG2.
Profile:	4:2:2/4:2:0, 8/10-bit.
Latency:	UHD 59p = 66ms. UHD 50p = 75ms.
Output Bitrate:	1 Mbps – 90 Mbps.
Encoder+Decoder:	FHD 59p = 55ms. FHD 50p = 70ms. FHD 59i = 83ms. FHD 50i = 98ms.
Audio Encoder:	MPEG-1 Layer1, MPEG-1 Layer2 and AAC-LC.

CONTROL & MONITORIZATION

Control interfaces:	Front panel and display. Web browser. RTC-03.
Monitoring:	Encoding, modulation, frequency and output power, alarms and warnings.
Presets:	7 user defined presets.

POWER SUPPLY

DC input:	10 to 36V. V mount Interface powered by batteries (Optional).
Consumption:	35 W.

MECHANICAL

Size:	196 x 102 x 48,5 mm.
Weight:	1.2 kg (With V-mount battery interface).

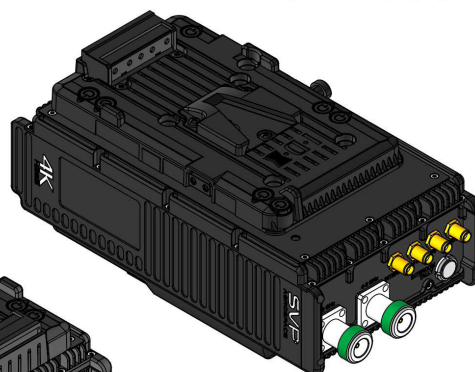
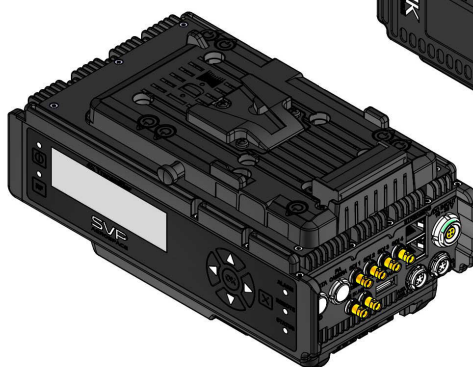
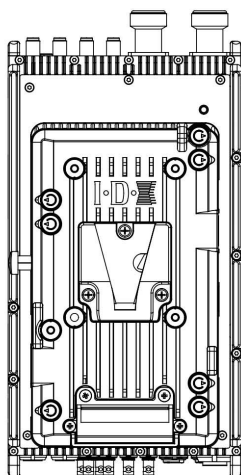
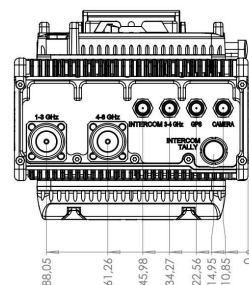
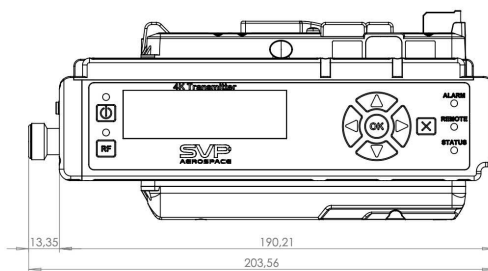
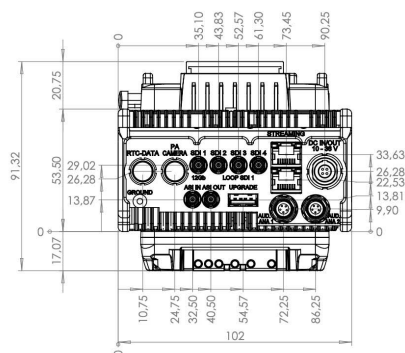
ENVIRONMENTAL

Temperature range:	-20 to 45oC:
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BIDIRECTIONAL CAMERA CONTROL (OPTIONAL)

Frequency range:	403 to 473 MHz.
Output power power:	100mW.
Compatibility:	Panasonic and Sony.
Tally:	Tally RED, Tally GREEN and On Camera.

MECHANICAL DIMENSIONS & HOW TO ORDER



UDT-02-V R A G K C W Q I-UHD

A = Anton Bauer V = V mount	R = Remux 0 = No Remux	A = AES 0 = No AES	G = GPS 0 = No GPS	K = KLV 0 = No KLV	C = Remote Camera Control 0 = No Remote Camera Control	W = 3-8 GHz band 0 = Only 1-3 GHz	Q = Quad Mode 0 = No Quad Mode	IP = TS over IP 0 = No IP	UHD = UHD & HD support HD = Only HD
Camera mount	Remux function	AES Encryption	Integrated GPS receiver	SDI embedded KLV metadata	Remote Camera Control	Wide RF band	Multivideo Option *Only available on UHD option	TS Over IP Option	Video Format Option