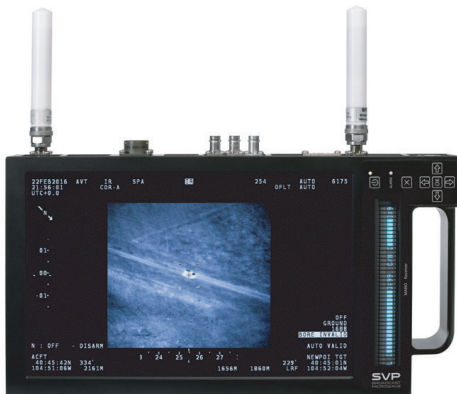


The new MANO Receiver has been designed by SVP Aerospace to perform DVB-T2, DVB-T and ISDB-T demodulations.

It is an H.264 and MPEG-2 HD/SD professional broadcast quality decoder, based on NTT technology.

The video over IP optional output enables connectivity with PC via IP for monitoring of video or/and KLV Metadata with any Mission software.



FEATURES

- NTT H.264 compression technology.
- MRC Diversity 2.
- Highest video quality up to: 1080p/60.
- Autotracking control (with compass).
- Power supply: 11 – 36 V DC or V lock batteries.
- BISS-1 and BISS-E encryption.
- AES-128 and AES-256 encryption (optional).
- 13.3" sunlight readable screen.
- Web Server interface.
- Updatable via USB.
- Anodized milled aluminum block.

OPTIONS

- AES-128 and AES-256 Encryption.
- Autotracking control (with compass).
- Video over IP.
- External Down-Converters (Down converters not included).

INCLUDES

- Hand Held Receiver.
- Two Omnidirectional Antennas.
- One Power Supply.
- Neck Strap.

CHARACTERISTICS

RF STAGE DVB-T2 AND DVB-T

Frequency range:	1.30 to 1.55 GHz. 1.70 to 2.1 GHz. 2.00 to 2.10 GHz. 2.21 to 2.38 GHz. 2.00 to 2.40 GHz. 3.30 to 3.80 GHz. 4.50 to 4.98 GHz. 4.90 to 5.38 GHz. 5.30 to 5.78 GHz. 6.20 to 6.68 GHz. 6.60 to 7.08 GHz. 6.70 to 7.18 GHz.
Diversity:	2 in DVB-T2. 2 in DVB-T. 2 in ISDB-T.
Diversity Technique:	MRC (Maximum Ratio Combining) in DVB-T2, DVB-T and ISDB-T.

DEMODULATION

DVB-T2:	COFDM 1K, 2K, 4k, 8k, 8_ext. QPSK, 16QAM, 64QAM, 256QAM. Constellation rotation. LDPC FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6. IG: 1/4, 19/128, 1/8, 19/256, 1/16. Bandwidth: 1.7, 5, 6, 7, 8 MHz. Max bitrate: 46.4 Mbps.
DVB-T:	COFDM 2K and 8K mode. QPSK, 16QAM, 64QAM. FEC: 1/2, 2/3, 3/4, 5/6, 7/8. IG: 1/4, 1/8, 1/16, 1/32. Bandwidth: 5, 6, 7, 8 MHz. Max bitrate: 31.67 Mbps.
ISDB-T:	COFDM 2K, 4K and 8K mode. QPSK, 16QAM, 64QAM. FEC: 1/2, 2/3, 3/4, 5/6, 7/8. IG: 1/4, 1/8, 1/16, 1/32. Bandwidth: 6, 7, 8 MHz. Max bitrate: 31 Mbps.

DECODER

H.264 – Profile:	Baseline, Main, High, High 422 (it supports 10 bits).
MPEG-2 – Profile:	422P@HL, MP@HL, 422P@ML, MP@ML. Latency: 33ms.
H.264 – Level:	4.1 – 4.2.
Audio decoder:	MPEG-1 Layer I/II.
H. 264 – Latency:	Low delay: 33 ms

VIDEO

Inputs:	1 x ASI, Video over IP.
Outputs:	1 x SDI, 1 x HDMI.
Formats:	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 (PAL) – 50 Hz. 480i (NTSC) – 59.94 Hz.
Audio Outputs:	Embedded on SDI. Speaker. Headphones,

AUDIO

Speakers:	2 speakers.
Headphones:	1 jack plug.

DECRYPTION

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

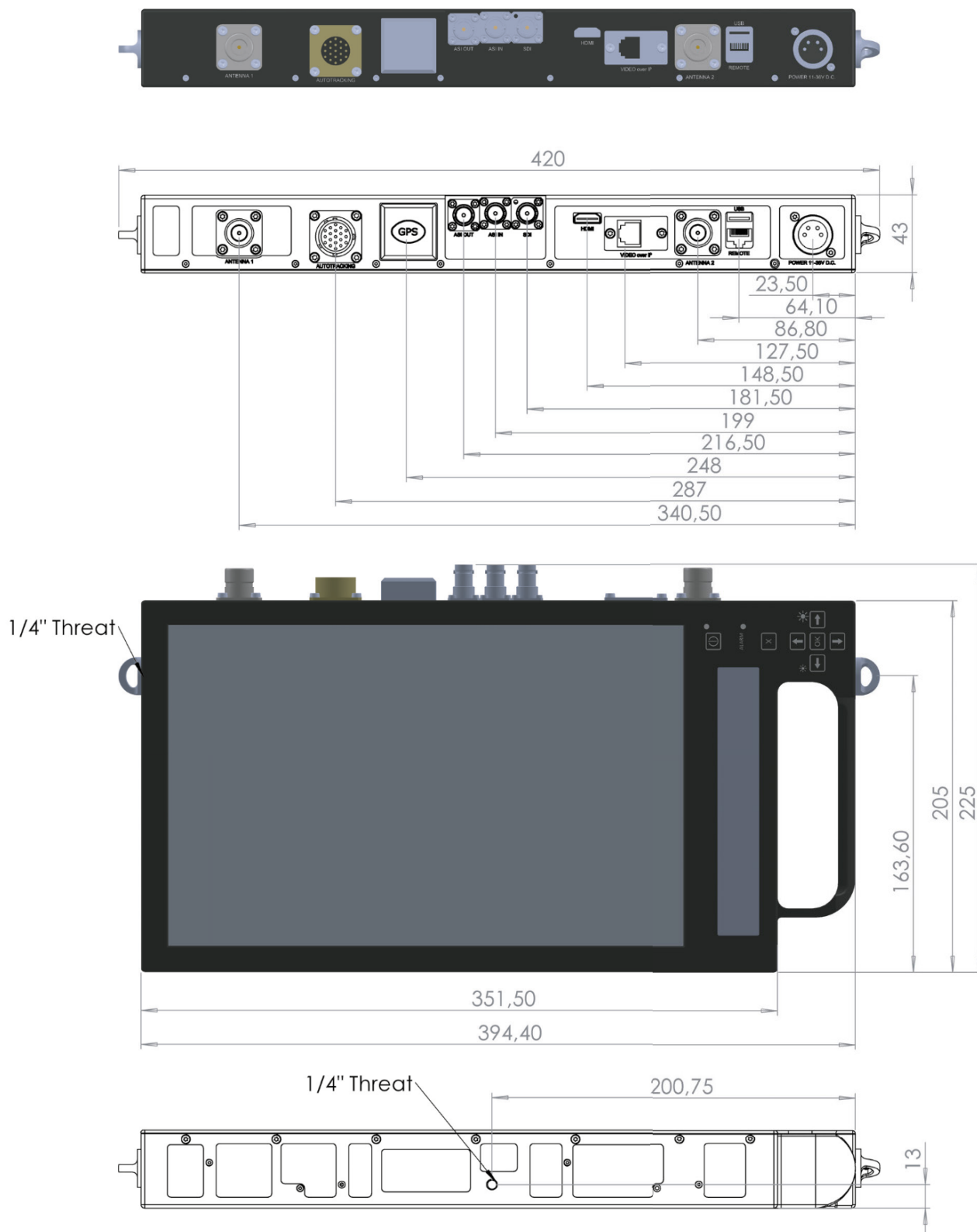
POWER SUPPLY

Batteries:	V-mount at 12 V.
DC input:	11 to 36 V DC.
Autonomy:	5 hours (with max. brightness and powered by IDX DUO-C198batteries).

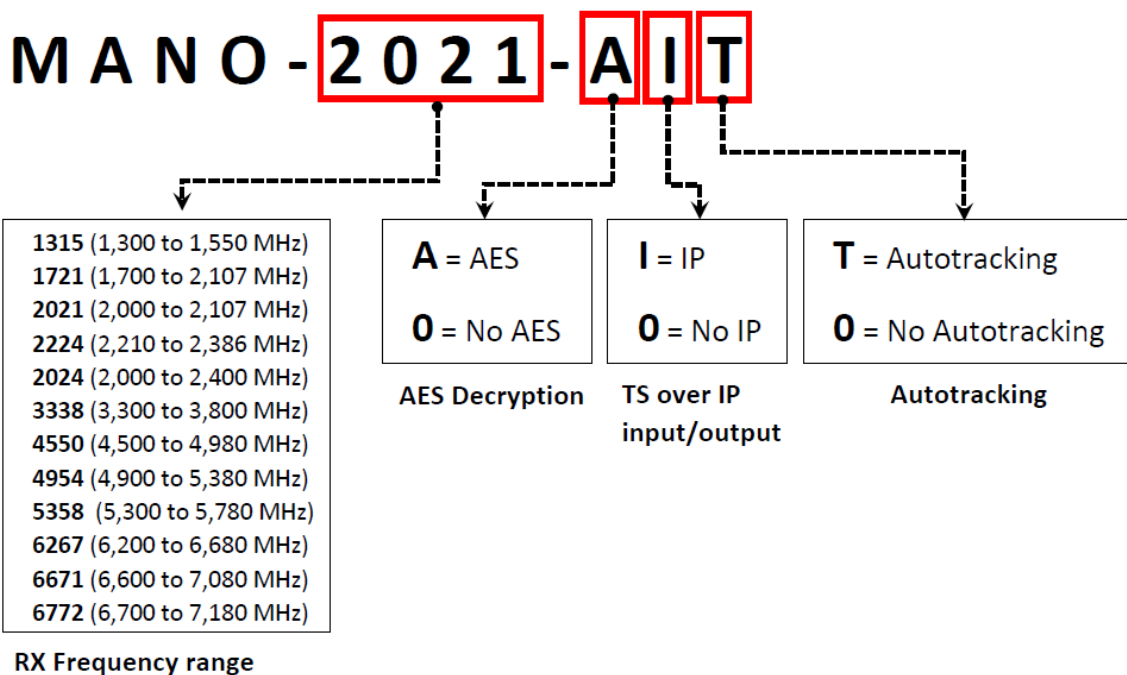
MECHANICAL

Screen:	13.3 inch.
Size:	420x225x43 mm.
Weight:	2.8 Kg (without battery).

MECHANICAL DIMENSIONS



HOW TO ORDER



Design and specifications are subject to changes without prior notice. 12/ 21

ACCESSORIES



CC-MANO Transport Case



VL-2000S Battery Charger



DUO-C198 Battery

*These accessories have to be ordered separately