

PROceiver

Diversity Receiver

The Vislink PROceiver is a one box unit compatible with HEROcast™ and HEROcast BacPac™. The receiver has been designed for use in harsh RF environments where size and weight combined with Broadcast Quality performance is important. Using active signal “Maximum Ratio Combining” (MRC) the unit accepts signals from two antennas to significantly enhance the demodulated performance and increase the operating range. This receiver features a range of comprehensive signal outputs including HD at 720p and 1080i, down-converted HD CVBS monitor video, two digital, analog audios and ASI MPEG4/H.264 video decoding is supported. The system includes video picture monitoring on the front panel TFT display.



HEROcast and BacPac are trademarks of GoPro, Inc. and are used with permission.

Key Features

- One box compact and lightweight solution
- HD available at 720p and 1080i
- Capability to support MPEG4/H.264
- DVB-T COFDM modulation
- Video picture monitoring capability using sunlight readable front panel colour TFT screen
- Video plus two audios

Typical Applications

- Sports Coverage
- Event Coverage
- Extreme Sports Coverage
- On-board Coverage



SPECIFICATIONS

RF PARAMETERS

Frequency bands

- 2.0 - 2.5GHz
- 2.2 - 2.7GHz

Tuning range

- 400MHz (modulation dependant, consult factory)

Frequency selection

- Up to 16 pre-set channels, or tuning in 1MHz steps via front panel control

Demodulation

- DVB-T 2k

Demodulation modes

- QPSK, 16QAM, 64QAM
- FEC: 1/2, 2/3, 3/4, 5/6, 7/8
- Guard interval: 1/32, 1/16, 1/8, 1/4

Bandwidth

- 6, 7, 8MHz

Noise figure and receiver threshold

- Noise figure: 3dB typical, 4dB max.
- Receiver threshold: -92dBm to BER 10E-5 (nom. QPSK)

Data rate

- 4.98 to 31.7Mbit/s

VIDEO AND AUDIO PARAMETERS

Decoding

- 4.2.0 and 4.2.2 broadcast quality video
- MPEG4/H.264

Video outputs

- SDI HD SMPTE-292M (299M)
- Analogue Composite (CVBS), YUV and Y/C component
- HD down-converted to SD CVBS monitor

ASI outputs

- 2 x DVB ASI

Video formats

- 1080i: 1920 x 1080, 50 and 59.94 Hz
- 720p: 1280 x 720, 50 and 59.94 Hz

Latency

- Automatic selection down to sub 1 frame (20ms), transmitter

Genlock

- Genlock input, CVBS black/burst or tri-level sync
- Genlock timing offset feature, +/- 18,926ns in 37ns steps

Audio outputs

- Digital: 2 stereo SDI embedded or AES/EBU
- Analogue: 2 x mono / 1 x stereo

FLEXIBILITY AND POWER SUPPLY

Monitoring

- Video picture monitoring on Full Colour TFT front panel display
- Comprehensive control and monitoring menu via front panel control
- Demodulator parameters

- RF Received signal level (dBm and bar graph)
- C/N, MER, BER (dB and bar graph)
- Summary front panel alarm/comprehensive internal lock alarms

Remote control

- Comprehensive remote control and monitoring via Ethernet port/web browser interface.

Software upgrade

- USB upgrade port

Power supply

- 10 - 32V DC.

PHYSICAL AND ENVIRONMENT

Size and weight

- 76mm high x 179 wide x 275 deep, including connectors
- 2.9kg (6.4lbs)

Environmental

- Safe use: -20° to +50°C
- To spec: -10° to +45°C
- Altitude: 4500m
- Humidity: 95% long term

Mechanical interface

- Standard wedge plate compatible with Vislink interfaces.

ACCESSORIES

The PROceiver will be delivered to customers with the following items:

- USB/Ethernet remote cable
- Dual Fanbeam bracket to fit BSW 3/8 Tripod
- AC/DC PS15V power supply
- 2 x Fanbeam antennas
- 2 x low loss RF cable
- Audio breakout cable
- AC power cable

