



MNTX

UAV Downlink Transmitter

The MNTX is ideally suited to UAV and mini on-board applications, where ultra-high quality video coupled with ultra-low latency features are a must. The MNTX shares its modulation and video encoding platform with the Vislink premium wireless camera range.



Key Features

- Ultra-low delay transmitter.
- Designed for UAV applications.
- Ultra-low delay, down to 20ms H.264, when used with Vislink receivers.
- Video bit rates up to 39Mbit/s.
- Linear distortion pre-correction of COFDM RF carrier for improved spectral re-growth and co-channel performance.
- Full configuration available via Windows™ PC software.
- Supports 1080p for effective UHD upscaling

Typical Applications

- Surveillance
- Event Coverage
- Sports Coverage



datasheet

at the heart of the action

Frequency Bands

- 1.9 - 2.7 GHz*, **
- 3.3 - 3.7 GHz**, ***
- 4.2 - 4.5 GHz**
- 4.5 - 4.9 GHz**
- 5.4 - 6.0 GHz**
- 6.4 - 7.2 GHz**
- 6.8 - 7.5 GHz**

*100/200mW, **100mW,
***Pre-distortion correction

Modulation 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

Modulation

- COFDM DVB-T 2K or switchable LMS-T (factory licensed option)

GOP & PIDs

- GOP Selectable 4 to 30
- PIDs user configurable

Video Input

- HD-SDI, 1080i, 1080p, 720p, 50/54.94
- HDMI type "C" connector 1.4a.

Monitoring and Control

- Comprehensive transmitter setup via Windows™ PC software

Frequency Selection

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

Bandwidth

- DVB-T 6, 7, 8 MHz switchable
- LMS-T scalable 3 to 20 MHz (factory option)

Audio Input

- Embedded audio support only
- Audio encoding rate selectable 128, 256, 384 kb/s

Power Supply

- 12 - 16V DC, 18 Watts, includes external DC input

Transmit Power

- User selectable 10 mW/50 mW/100 mW*

*200 mW (subject to frequency)

Transmit Antenna

- Various options available. (Please contact us for assistance.)

Data Rate

- DVB-T 4.98 to 31.7 Mbit/s
- LMS-T up to 39 Mbit/s, bandwidth dependant (factory option)

Encoding

- H.264/MPEG-4, level 4.1 video.
- Profile 4.2.0/4.2.2 selectable
- Audio MPEG-1 layer 2/layer 1 selectable

Latency

- Selectable down to less than 1 frame, 20 ms

Environmental

- -20° to +50°C (-4°F to 122 °F)
- Altitude: 4500m (14763 ft.)
- Humidity: 95% long term

Weight

- 415 g

Dimensions

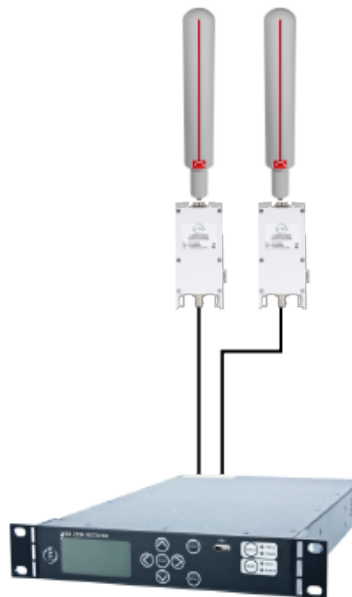
- 129 (L) x 98 (W) x 42 (H) mm (5" (L) x 3.8" (W) x 1.6" (H))



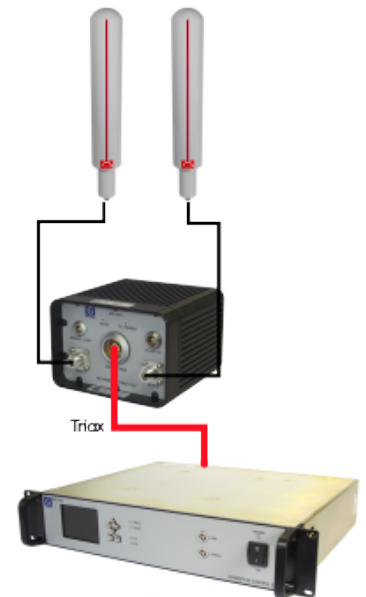
MTV HD3 Portable Receiver



Handheld Portable Receiver



L2174 Series 2- or 4-way Diversity Receiver



MVL HDR Series 2- or 4-way Dual RF Head, Single Triax

Typical MNTX application and receiver options