

# UltraReceiver

## Multi-Format Receiver

The UltraReceiver is a 1RU half-width, rack mount chassis receiver that perfectly fits the requirements for broadcast sports and ENG news coverage with wireless cameras.

This versatile receiver features four UHF inputs with Maximum Ratio Combining, DVB-T and proprietary LMS-T demodulation.

The multifunction decoder supports low-delay transmitters and offers decoding of HEVC and H.264.



## Key Features

- Direct conversion RF architecture for exceptional adjacent channel performance and excellent sensitivity
- DVB-T: QPSK, 16QAM & 64QAM; 6, 7, & 8MHz
- LMS-T: QPSK & 16QAM; 10 & 20MHz
- Variable bandwidth LMS-T: 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 20 & 24 MHz
- HEVC (H.265) 4:2:2 profile, low latency HD decoding
- ASI input and output
- Web browser and SNMP control
- Quad SDI / HD-SDI outputs for UHD

## Typical Applications

- Event Coverage
- Sports Coverage
- Newsgathering

### Demodulator

- DVB-T: QPSK, 16QAM & 64QAM; 6, 7, & 8MHz
- LMS-T: QPSK & 16QAM; 10 & 20MHz
- LMS-T: Variable Bandwidth; 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 20 & 24 MHz

### Decoder Options

- HEVC (H.265)
- AVC (H.264)
- Linear PCM

### Inputs

- 4x UHF inputs, 70-860MHz. Switchable LNB power.
- ASI input (ISO/IEC 13818-2 188 bytes)
- Frame Lock input (black/burst or HD tri-level)
- Camera Control / Mpeg data channel interface on 6-pin Lemo
- 10/100 Ethernet connection for IP-based unit control

### Video Encoder Profiles

- 4K Native & UHD:
  - 8/10bits 4.2.0/4.2.2
  - 1.0-40Mbps
- HD:
  - Main 10-8/10bits 4.2.0/4.2.2
  - 1.0-40Mbps

### Video Formats

- 1080i@50/59.94
- 1080p@50/59.94
- 2160p@29/30/50/59.94

### Outputs

- 4 x 3G-SDI SMPTE-424M (UHD)
- 1 x HD-SDI SMPTE-424M (HD)
- Up to 4x embedded audio outputs
- ASI output (ISO/IEC 13818-2 188 bytes)
- Audio output on two 3-pin XLRs (channel 1) and 5-pin Lemo (channel 2)

### Software Upgrade

- USB upgrade port

### Power

- 100 to 240VAC; 100W (approximate, depending on configuration)

### Size

- 1RU Height Half Rack width:
  - 350mm (13.8") Deep (excluding connectors)

### Weight

- 1.2kg

### Environmental

- Temperature:
  - Operating 0° to 50°C
- Humidity:
  - 95% (non-condensing)

## Receiver Optional Items

### Standard Items:

- 2-RF Inputs
- RF to ASI demodulation

### Optional Licenses:

- Diversity Receiver 2-RF input to 4-RF input upgrade option
- 4K Native 4096x2160 and UHD 3840x2160 license option
- H.264 HD Decoding option

