

UltraReceiver LD

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 4x dual pedestal UHF inputs with Maximum Ratio Combining LMS-T demodulation capability to ensure maximum signal robustness and best video quality.

In combination with Vislink's HCAM wireless camera transmitter, the UltraReceiver LD decoder delivers high quality 4k UHD video with end-to-end latencies as low as a single frame.

As a multi-format receiver, the UltraReceiver LD also provides decode capability for HD HEVC and HD MPEG-4 video decoding.



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
- 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
- MPEG-4 AVC (H.264) 4:2:2 profile HD decoding
- Low bit rate MPEG-1 Layer II and AAC audio decode
- 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 Decode Standards

- HEVC (H.265) UHD & HD
- MPEG-4 AVC (H.264) HD

Audio Decode Standards

- Linear PCM
- MPEG-1 Layer II
- AAC

Video Decode 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

