

UltraReceiver LD

Multi-Format Receiver



Key Features

One-box, compact and lightweight solution

Used in conjunction with the Vislink L3025 series Down-Converters

Up to 4x UHF inputs RF with Maximum Ratio Combining diversity

4K UHD and HD decoding available

Capability to support HEVC and MPEG4/H.264 decoding

Available for DVB-T or LMS-T transmissions

HD HEVC Dual Decode capability in a single transport stream

Typical Applications

[Event Coverage](#)

[News Coverage](#)

[Sports Coverage](#)

The UltraReceiver LD (ULRX-LD) 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.

The UltraReceiver LD is typically used in conjunction with Vislink L3025 series Down-Converters.

UltraReceiver LD Datasheet



Technical Specifications	
RF Parameters	
Frequency bands	70MHz -860MHz* *Use in conjunction with the L3025-series down converters.
Frequency Selection	Up to 16 pre-set channels, or tuning in 1MHz steps via front panel control
Demodulation	<ul style="list-style-type: none"> • DVB-T • LMS-T
Demodulation Modes	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • DVB-T bandwidths of 6/7/8 MHz • LMS-T bandwidths of 3/4/5/6/7/8/10/12/14/16/20 or 24 MHz with dual pedestal
Receiver Threshold	Receiver threshold: -92dBm to BER 10 ⁻⁵ (nom. QPSK)
Video & Audio Parameters	
Video Decoder Profiles	<ul style="list-style-type: none"> • HEVC (H.265) UHD & HD: <ul style="list-style-type: none"> • Profile: Main 4:2:2 10 @ L5.1 • Sampling: 8bit & 10bit • Video rate: 1.0-40Mbps • Video format: up to 2160p 60 • MPEG-4 AVC (H.264) HD <ul style="list-style-type: none"> • Profile: 422HP @ L4.2 • Sampling: 8bit & 10bit • Video rate: 1.0-40Mbps • Video format: up to 1080p 60
Video Outputs	<ul style="list-style-type: none"> • 3G-SDI SMPTE-424M (UHD) • HD-SDI SMPTE-424M (HD)
Video Formats	<ul style="list-style-type: none"> • 480i @ 29.97 • 576i @ 25 • 720p @ 50, 59.94 & 60 • 1080i @ 50, 59.94 & 60 • 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94 & 60 • 2160p @ 23.98, 24, 25, 29.97, 30, 50, 59.94 & 60
Audio Decoder Profiles	<ul style="list-style-type: none"> • AAC (AAC-LC & HE-AAC) • MPEG-1 (Layer 1 & Layer 2) • Linear PCM Passthrough
Audio Outputs	<ul style="list-style-type: none"> • Digital: Embedded audio over SDI • Analogue: 1x stereo pair (decoder 1 only)
Framelock	<ul style="list-style-type: none"> • CVBS Black & Burst • Tri-level sync
Latency	<ul style="list-style-type: none"> • Single frame latency* <p>*In combination with Vislink HCAM transmitter in HEVC mode and in combination with Vislink L1700 & Clip On-4 transmitters</p>
De-Scrambling	<ul style="list-style-type: none"> • BISS-1 • BISS-E Injected <p>(not available in dual decode mode)</p>
Dual Decode (HEVC only)	Ability to decode dual services on a single multiplex

UltraReceiver LD Datasheet



Connectors	<ul style="list-style-type: none"> • UHF Input Connectors: <ul style="list-style-type: none"> • 4× 75 Ω BNC (F) • ASI Input Connector: <ul style="list-style-type: none"> • 75 Ω BNC (F) • Video Output Connectors: <ul style="list-style-type: none"> • 4× 75 Ω Micro BNC (F) • Monitor Output Connector: <ul style="list-style-type: none"> • 75 Ω Micro BNC (F) • GenLock Connector: <ul style="list-style-type: none"> • 75 Ω Micro BNC (F) • ASI Output Connector: <ul style="list-style-type: none"> • 75 Ω Micro BNC (F) • Audio Connectors: <ul style="list-style-type: none"> • 2× 3-Pin XLR (M) • Camera Control & MPEG Data Connector: <ul style="list-style-type: none"> • 6-Pin LEMO Socket • Alarm Connector: <ul style="list-style-type: none"> • 6-Pin LEMO Socket • Ethernet Control Connector: <ul style="list-style-type: none"> • RJ45 10/100 • TS over IP Connector: <ul style="list-style-type: none"> • RJ45 10/100 (not used)
Flexibility & Power Supply	
Power	100 - 240VAC; 100W (approximate, depending on configuration)
ASI	<ul style="list-style-type: none"> • Input for decoding or ASI Packet Switching (configurable) • Output from demodulator or decoder (configurable)
User Interface	<ul style="list-style-type: none"> • Comprehensive front panel control and monitoring • White backlit LCD display: <ul style="list-style-type: none"> • Summary display detailing status and internal lock alarms • RF Rx signal level (dBm bar graph) • MER level (dB bar graph)
Remote Control	<ul style="list-style-type: none"> • Comprehensive remote control and monitoring via Ethernet power/web browser interface and SNMP control
Software Upgrade	Unit upgrades via USB port
Physical & Environmental	
Size	<ul style="list-style-type: none"> • 44 mm (H) x 210 mm (W) x 350 mm (L) (1.7" (H) x 8.2" (W) x 13.7" (L)) • 1U Height, 1/2-rack width
Weight	1.2 kg (2.6 lb)
Environmental	<p>Operating Temperature: 0°C to +50°C (32°F to 122°F) Humidity: 95% long term</p>
Optional Licenses	<ul style="list-style-type: none"> • ULRX-LICE-0001 - ULRX Licence 4K UHD Decode • ULRX-LICE-0002 - ULRX Licence H.264 SD & HD Decode • ULRX-LICE-0006 - ULRX Licence 4 Input Demod • ULRX-LICE-0007 - ULRX License ASI Packet Switching • ULRX-LICE-0008 - ULRX Licence 4 Input LMS-T (D) • ULRX-LICE-0009 - ULRX-LD License Dual Channel Decode • ULRX-LICE-0010 - ULRX License BISS De-Scrambling <p>Some features specified are available via optional licenses.</p>

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