

L2174

Multi-Format Receiver & Decoder

The L2174 is a 1RU rack mount chassis COFDM demodulator & decoder, specifically targeted at compact wireless camera and microwave link applications.

Its multiple inputs, 4x UHF input with Maximum Ratio Combining and LMS-T demodulation, with ASI and DVB-T capabilities make this a versatile receiver option.

The multifunction decoder supports low-delay transmitters and offers generic decoding in both H.264 and MPEG-2.

The L2174 is typically used in conjunction with Vislink L3025 series Down-Converters.



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
- SD and HD available at 720p and 1080i
- Capability to support MPEG 2 and MPEG4/H.264 decoding
- Available for DVB-T or LMS-T transmissions

Typical Applications

- Event Coverage
- News Coverage
- Sports Coverage



datasheet

at the heart of the action

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

- DVB-T
- LMS-T

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

- 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

- MPEG-4 AVC (H.264) HD & SD
 - Main, High, Baseline up to Level 5.2, High 10/High 4:2:2
- MPEG-2 (H.262) HD & SD
 - 4:2:0 8 bit up to 1080i@60

Video Outputs

- HD-SDI SMPTE-292 (299M)
- SD-SDI SMPTE-259M (272M)
- HD down-converted to SD CVBS confidence monitor

Video Formats

- 480i (NTSC)
- 576i (PAL)
- 625i@50
- 525i@59
- 720p@50, 59 & 60
- 1080i@50, 59 & 60
- 1080psF@23, 24, 25 29 & 30
- 1080p@23, 24, 25 29 & 30

Audio Decoder Profiles

- MPEG-1
- PCM

Audio Outputs

- Digital:
 - Embedded audio over SDI
 - 2x AES/EBU
- Analogue:
 - 2x stereo pair
- Digital outputs share the same connector as the analogue outputs.

Framelock

- CVBS Black & Burst
- Tri-level sync (MPEG-2 only)

Latency

- Automatic selection down to sub1-frame* (20ms)
- *in combination with Vislink L1700 & Clip On-4 transmitters

Decryption

- BISS modes 1 & E (factory option)
- AES

Connectors

- UHF Input Connectors:
 - 4x 75 BNC (F)
- ASI Input Connector:
 - 75 BNC (F)

- Video Output Connectors:
 - 2x 75 BNC (F)
- Frame Lock Connector:
 - 75 BNC (F)
- ASI Output Connector:
 - 75 BNC (F)

- Audio Connectors:
 - 2x 3-Pin XLR (M)
 - 5-Pin LEMO Socket
- Camera Control & Alarm Connector:
 - 6-Pin LEMO Socket

- Ethernet Control Connector:
 - RJ45 10/100
- TS over IP Connector:
 - RJ45 10/100

Flexibility & Power Supply

Power

- 100 - 240VAC; 75W (approximate, depending on configuration)
- Available as DC input option 10 - 36V DCC <60W (at time of order)

ASI

- Input for decoding or ASI Packet Switching (configurable)
- Output from demodulator or decoder (configurable)

User Interface

- Comprehensive front panel control and monitoring
- White backlit LCD display:
 - Summary display detailing status and internal lock alarms
 - RF Rx signal level (dBm bar graph)
 - MER level (dB bar graph)

Remote Control

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

Software Upgrade

- Unit upgrades via USB port

Optional Licenses

- L9553 - L2x74 License 4 Input Demod
- L9554 - L2x7x License De-Interleaving
- L9555 - L2x74 License ASI Packet Switching
- L9556 - L2x7x License ASI over IP Encapsulation
- L9564 - L21x4-IRD5200 License MPEG-2 Low Delay HD Decode
- L9565 - L21x4-IRD5200 License MPEG-2 HD Decode
- 9004890 - L217x License AES-128 Decryption
- 9004891 - L217x License AES-256 Decryption
- 9004925 - L217x License H.264 SD 4:2:0 Decode
- 9004926 - L217x License H.264 HD 4:2:0 Decode
- 9004927 - L217x License H.264 4:2:2 Decode

Physical & Environmental Size

- 44 (H) x 210mm (W) x 350mm (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

- Operating Temperature:
 - 0° to +50°C (32°F to 122°F)
- Humidity:
 - 95% long term