# 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

## 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 Ω v BNC (F)
• ASI Input Connector:
  • 75 Ω BNC (F)

• Video Output Connectors:
  • 2x 75 Ω BNC (F)
• Frame Lock Connector:
  • 75 Ω BNC (F)
• ASI Output Connector:
  • 75 Ω 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 DC <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