

## L2174

### Multi-Format Receiver & Decoder

The L2174 is a 1RU rack mount chassis demodulator decoder specifically targeted at compact wireless camera and microwave link use. Its multiple inputs, 4x UHF input RF with Maximum Ratio Combining and proprietary LMST, 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.



### Key Features

- One-box, compact and lightweight solution
- Up to 4x UHF inputs RF with Max Ratio Combining
- SD and HD available at 720p and 1080i
- Capability to support MPEG 2 and MPEG4/H.264 decoding
- Available for DVB-T COFDM or LMS-T

### 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 2k
- LMS-T (available for QPSK & 16 QAM)

### 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
  - 6, 7, 8MHz
- LMS-T
  - 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 & 20 MHz

### Receiver Threshold

- Receiver threshold: -92dBm to BER 10<sup>-5</sup> (nom. QPSK)

## Video & Audio Parameters

### Decoding

- 4.2.0 and 4.2.2 broadcast quality video
- H.264/MPEG4 and MPEG2

### Video Outputs

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

### ASI Outputs

- 1 x DVB ASI, 188/204 outputs

### Video Formats

- 1080p/1920 x 1080 23, 24, 25, 29 & 30Hz
- 1080psf/1920 x 1080 23, 24, 25, 29 & 30Hz
- 1080i/1920 x 1080@ 50, 59 & 60Hz
- 720p/1280 x 720@ 50, 59 & 60Hz
- 480i (NTSC)/720 x 480
- 576i (PAL)/720 x 576

### Latency

- Automatic selection down to sub 1-frame (20ms) transmitter
- Encoding profile dependent

### Decryption

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

### Frame Lock

- Genlock input, CVBS black/burst or tri-level sync

### Inputs

- Up to 4x UHF input RF with Max Ratio Combining
- ASI Input

### Audio Outputs

- Digital: 2x stereo SDI embedded or AES/EBU
- Analogue: 4x mono / 2x stereo

### Other Outputs

- Camera Control interface & alarm output on 6-pin Lemo
- Remote Control and data channel on 6-pin Lemo
- 10/100/1000 Ethernet connections for Video over IP connections
- 10/100 Ethernet connection for IP-based unit control
- USB connector for code updates

## Flexibility & Power Supply

### Monitoring

- White backlit LCD display for control & monitoring
- Comprehensive control & monitoring menu via front panel control
- Demodulator parameters
- RF Received signal level (dBm bar graph)
- MER (dB bar graph)
- Summary front panel alarm/comprehensive internal lock alarms

### Remote Control

- Comprehensive remote control & monitoring via Ethernet port/web browser interface and SNMP control

### Power Supply

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

### Software Upgrade

- USB upgrade port

## Physical & Environmental

### Size & Weight

- 1U Height Half Rack width
- 210mm x 350mm
- 1.2kg

### Environmental

- Safe use: 0° to +50°C
- Humidity: 95% long term