

## MVL-HD series

### 2 or 4 way HD/SD diversity unit

The Vislink SD/HD Diversity unit, offers the convenience of triax remoting, and is the perfect addition to any Vislink digital wireless camera, central receive or helicopter downlink system. Using "Maximum Ratio Combining" (MRC) the unit accepts signals from up to 4 antenna combinations to significantly enhance the demodulated performance. Video decoding may be MPEG2 and MPEG4/H264 with automatic detection (option).



#### Key Features

- The dual RF head unit, provides 2 way diversity reception using a single triax cable, (or 2 Dual RF heads provide 4 way reception).
- Available for COFDM DVB-T or ISDB-T (with time interleaving)
- Improved capacity for any given level of ruggedness through higher-order modulation (e.g. QPSK to 16QAM to 64QAM)
- Allows coverage from different zones of activity with seamless changeover
- Video picture monitoring capability using sunlight readable front panel colour TFT display screen.

#### Typical Applications

- Event Coverage
- Newsgathering
- Sports Coverage
- Airborne Operations
- Maritime Reconnaissance



## RF PARAMETERS

### Frequency Bands

- 1.3 to 13GHz

(Other frequency bands available on special order)

### Tuning Range

- Up to 700MHz

Depending on frequency band

### Frequency Selection

- Up to 16 preset channels, or tuning in 1MHz steps via front panel control

### Demodulation

- COFDM DVB-T 2k
- ISDB-T 8k with time interleaving (option)

### 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

- 6, 7, 8MHz

(6-7 only for ISDB-T)

### Noise Figure and Receiver

#### Threshold

- Noise figure: 3dB typical, 4dB max.
- Receiver threshold: -92dBm to BER 10E-5 (nom. QPSK)

#### Data Rate

- 4.98 to 31.7Mbit/s

### IF Frequencies

- 1st IF 800MHz nominal, operating band dependant
- 2nd IF 60 and 80MHz or
- 70MHz, system dependant

### IF Input Connectors

- 1, 2 or 4 Mini Lemo connectors (system options dependant)

### Triax Separation

- Up to 600 metres

## VIDEO AND AUDIO PARAMETERS

### Decoding (Factory options)

- SD/HD MPEG2
- Automatic selection, SD/HD MPEG4/H.264, SD/HD MPEG2

### Video Outputs

- SDI HD SMPTE-292M (299M)
- SDI SD SMPTE-259M (272M)
- 3G SDI SMPTE-424M (299M)
- HDMI O/P
- Analogue Composite (CVBS)
- HD down-converted to SD
- CVBS monitor

### ASI Outputs

- 2 x DVB ASI,
- 188 / 204 outputs Total Bitrate

### Video Formats

- 1080p 23/24/25/29/50/59
- 1080i: 1920 x 1080, 25 and 29.5Hz
- 720p: 1280 x 720, 50 and 59Hz
- 480i (NTSC): 720 x 480
- 576i (PAL): 720 x 576

### Latency

- Automatic selection down to
- 1/2 frame (20ms), transmitter encoding profile dependant

### Genlock

- Genlock input, composite
- black/burst or tri-level sync
- Genlock timing offset feature,
- +/- 18,926nS in 37nS steps

### Audio Outputs

- Digital: 2 stereo AES3 or SDI embedded
- Digital: Dolby E and Dolby D pass-through
- Analogue: 2 x stereo / 4 x mono

### User Data Output

- Selectable in the range 1200 to 230,400 baud

## FLEXIBILITY

### Remote Control

- Comprehensive remote control and monitoring via Ethernet port /
- Web browser interface.

### Software Upgrade

- USB upgrade port

### Monitoring

- Video picture monitoring on
- Full Colour TFT front panel display
- Comprehensive control and monitoring menu via front panel control

- Demodulator parameters
- RF Received signal level (dBm and bar graph)
- C/N, MER, BER (dB and bar graph)

- Summary front panel alarm/ comprehensive internal lock alarms

## POWER SUPPLY

- Universal supply accepts 95 130VAC and 190 – 260V

- AC (auto sensing) plus 1 - 36V DC. Bias ensures no

- DC consumption when AC is present

