



MVL-D2 Series - Digital Portable Receiver

A portable digital microwave link with exceptional RF performance, the MVL-D2 is a "two box" radio offering the convenience of Triax remoting. The receiver provides comprehensive signal outputs including SDI, and Analogue Composite or Component video; ASI; plus 4 digital and analogue audios.

MVL-D2 Series digital receivers are equally suited for wireless radio camera applications as a complement to the Gigawave D-Cam 'Dockable' and D-Cam 'Clip-On' Series transmitters.



Frequency Band

1.3 - 13.8GHz band (other bands available to special order)

Tuning Range

300MHz standard bandwidth (wider bandwidths available to special order)

Frequency Selection

Up to 16 pre-set channels or tuning in 1MHz steps via front panel control (500kHz steps available to special order)

Receiver Noise Factor

4dB (nom.)

Receiver Threshold

-92dBm to BER 10⁻⁵ (nom., QPSK)

Receive Antenna

Compatible with all Gigawave antennas

Demodulation

COFDM DVB-T 2k

Demodulation Modes

QPSK, 16QAM, 64QAM

FEC: $\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{5}{6}$ $\frac{7}{8}$

Guard interval: $\frac{1}{32}$ $\frac{1}{16}$ $\frac{1}{8}$ $\frac{1}{4}$

Data Rate

4.98 to 31.7 Mbit/s (automatic selection)

Bandwidth

8MHz (6 & 7MHz available)

Decoding Options

MPEG 2 4:2:0/4:2:2 high quality video (DVB standard)

Latency

Selectable to less than 2 frames, Tx-Rx

Video Output

Digital: SDI 270Mbit/s (qty 2)

Analogue: Composite (PAL/NTSC) (qty 2)

Y/C component (qty 1)

Genlock

Option available (PAL/NTSC)

ASI Output

ASI transport stream, 188/204/byte (qty 2)

Audio Output

Digital: 2 x AES3 outputs plus SDI embedded

Analogue: 2 x stereo / 4 x mono outputs

Data Output

Auxiliary user data RS232

IF Frequencies

1st IF - In the range 600-1500MHz

2nd IF - 70MHz

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IF Input/Output

Available on Control Units and via triax interface on Head Units.

Triax Separation

Up to 600m

Monitoring (Rx Control)

- Menu selectable via front panel control
- COFDM demodulator / MPEG 2 decoder parameters
- Head Unit Alarm
- RF Received signal level
- CSI
- BER
- Summary front panel alarm / comprehensive internal lock alarms

Power Supply

Universal supply accepts 95 - 130VAC and 190 - 260VAC (auto sensing) plus 12 - 36V DC. Bias ensures no DC consumption when AC is present

Mechanical Interface

Tripod, mast, scaffold and special mounts available.

Size

Head Unit: 158 x 142 x 240mm

Control Unit: 182 x 142 x 250mm

Weight

Head Unit: 5.8kg

Control Unit: 7.6kg

Environmental

Head Unit:

Safe use: -30° to +50°C

To spec: -20° to +45°C

Altitude: 4500m

Humidity: 95% long term

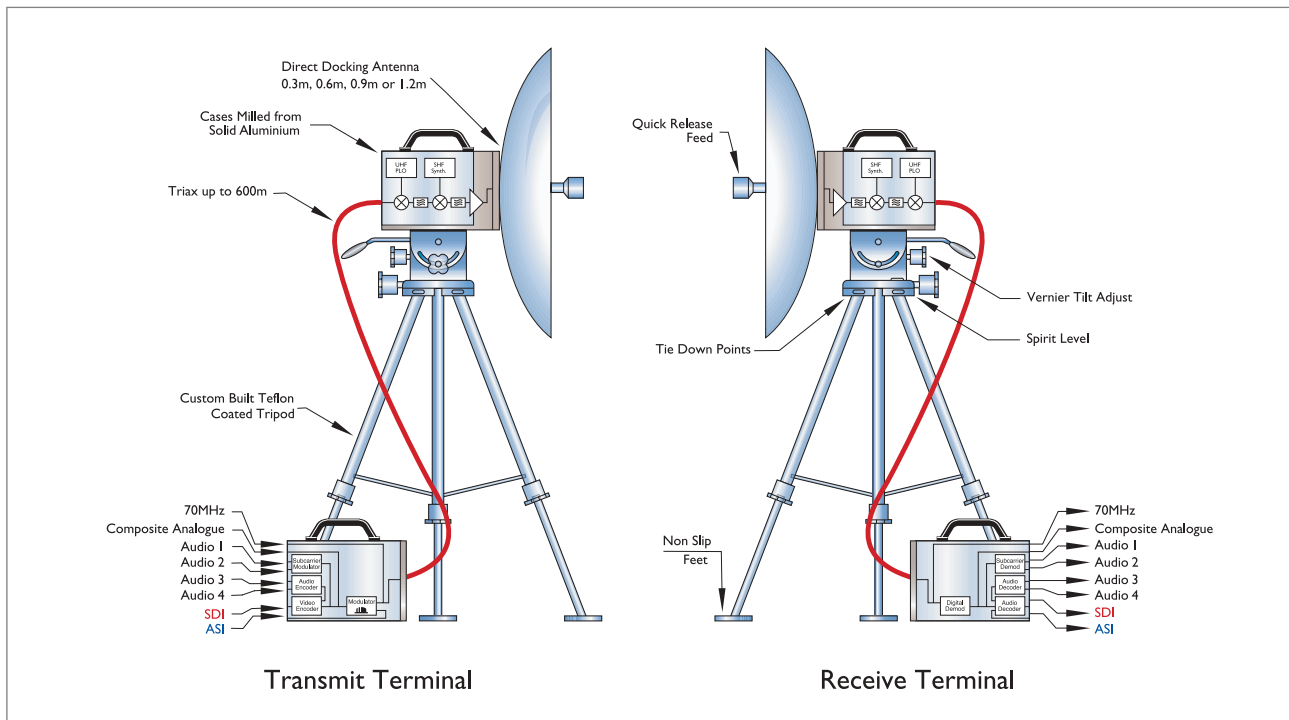
Control Unit:

Safe use: -20° to +50°C

To spec: -10° to +45°C

Altitude: 4500m

Humidity: 95% long term



Gigawave designs and manufactures a wide range of portable and fixed microwave equipment for television outside broadcasts, electronic newsgathering and security applications.

Specifications may alter at the discretion of Gigawave or to meet customer specific requirements.