



## DR-200 COFDM Digital Microwave Video and Audio Receiver



**DR-200 COFDM Digital Video/Audio/Data Receiver**

- High Performance Digital Microwave Video and Audio Receiver
- COFDM for multipath immunity
- MPEG-2 Video
- Two audio and one data channel
- AES Digital Encryption
- Main/Aux Video Outputs
- P, L, S, and C – Band Models
- Integral LNA
- Rugged Packaging
- RS-232 and TCP/IP Control
- Diversity Optional

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## **DR-200 COFDM Digital Microwave VECTOR Series Video / Audio / Data Receiver**

The DR-200 VECTOR Series brings a new level of digital performance and reliability to digital video and audio transmission. Available in P, L, S, and C-Bands, the DR -200 provides high quality demodulation of COFDM digital video and audio signals. The integral LNA and high-selectivity IF filters guarantee reliable receiver operation in harsh RF environments. A user AES encryption key safeguards against unauthorized intercept.

Packaged in a compact and rugged housing, the construction lends the DR-200 to applications where quick set-up with a minimum of external equipment is desired. The receiver is ideal for integration into video transmission systems using a host computer for remote control. Applications include UAV and UGV ground stations as well as central receive sites. Front panel connectors include two video outputs, audio outputs, and data channel output. The data channel is typically used for the reception of remote sensor and GPS information in conjunction with the DT-100 or DT-200 digital transmitter. Diversity is available as an option to meet specific requirements.

The DR-200 digital receiver is well suited for video transmission applications in surveillance, law enforcement, military UAV, RPV, UGV and MOUT, as well as airborne data/telemetry.

May be subject to export restrictions.  
Design specifications subject to change without notice.

# DR-200 COFDM Digital Microwave Video and Audio Receiver

## Technical Specifications

### Electrical:

- Frequency Range
  - DR-200P – 340 to 400 MHz
  - DR-200L – 1.7 to 1.9 GHz
  - DR-200S – 2.2 to 2.5 GHz
  - DR-200C1 – 3.1 to 3.5 GHz
  - DR-200C2 – 4.4 to 5.0 GHz
- Tuning Step – 1 MHz steps
- Frequency Stability –  $\pm 0.0002\%$  (2 ppm)
- Sensitivity – -95 dBm threshold
- Compression – MPEG-2 4:2:0
- Modulation – COFDM 2K
- Video Output Format – NTSC or PAL
- Video Delay – Low Latency (< 50 ms)
- Video Output Impedance – 75  $\Omega$  unbalanced
- Video Output Level – 1 V p/p
- Audio – Two Digital Channels
  - Linear Sampling
  - 20 Hz to 15 kHz  $\pm 1.5$  dB
    - 600  $\Omega$  Balanced Output
    - Line Level +4 dBm

### Environmental:

- Operating temperature: -10 to +55 °C
- Relative Humidity: 0 to 95%, non-condensing

### Mechanical:

- PTO- power, Multipin – audio, data, control
- Dimensions – 1.62 H x 4.5 W x 6.8 L inches
- Video Output Connectors – BNC female (2x)
- Audio Output – Multipin Connector
- Data Output – Multipin Connector
- Housing – Milled aluminum
- Weight – 1.5 lbs.
- RF Input Connector – SMA female
- Diversity Input Connector – SMA female

### Power:

- Operating voltage: +10 to +36 Vdc
- Current: 850 mA @ 13.8 Vdc

### Options:

- Base Mount    Mounting bracket for fixed installations
- Diversity    Dual diversity digital comparator

### Accessories:

- Antennas    A complete line of antennas for a variety of applications is available.

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