VR75 Video/Audio/Data Receiver

UHF, L-Band, S-Band, C-Band

Rugged, Reliable, Efficient, Feature Rich in a Small Package. Ideal for Covert Operations, UAVs, and UGVs!



AMP's VR75 Series 7.4 cubic inch video receivers offer high quality reception with many advanced features, including the miniature packaging, low power consumption, low noise figure, and video inversion. All receivers utilize a robust machined aluminum chassis and high quality connectors designed to withstand harsh environments.

VR75 Series receivers feature innovative circuit designs to reduce power consumption for significantly longer battery life and to reduce noise figure for substantially more range. Lower noise figure improves video quality and reduces the required transmitter output power thereby reducing transmitter battery requirements.

Receiver carrier frequency may be selected locally with BCD rotary switches, remotely with RS232 interface, and locally/remotely with a programmable binary switch. A slide switch allows selection between standard (positive) and inverted (negative) video. Received signal strength is indicated with a local display (LCD meter or LED bar) and an output pin on the I/O connector.

VR75 Series receivers are ideal for law enforcement, surveillance, UAV, UGV, Military, and other applications requiring high quality video reception in a compact, rugged package. If your application requires video and audio or data reception, AMP's receivers are optionally configured with up to two audio or data subcarriers. Dual buffered subcarrier outputs are provided for simultaneous monitoring and recording.

Design Features:

- 7.4 Cubic Inch Package (2.5" x 3.5" x 0.85")
- Weighs < 6 oz.
- Low Current Draw (Longer Battery Life)
- Low Noise Figure (More Range)
- Full Frequency Band Channelized
- Three Frequency Selection Modes (BCD Switches, RS232, Programmable Switch)
- Dual L/S-Band (1.7-1.85 GHz and 2.2-2.5 GHz)
- Video Inversion (Slide Switch Control)
- NTSC or PAL Video (Bandwidth & De-Émphasis)
- Optional Dual Audio or Data Subcarriers
- Dual Buffered Subcarrier Outputs (Monitor & Record)
- RS232 Data Subcarriers up to 48 kbps
- Received Signal Strength Indication (Local Display and Connector Output Pin)
- J-STD-001D Class 3 Assembly (Medical/Aerospace)



** NOTES:

- 1) NC = No Connection
 - 2) Models with no subcarriers have 3.5mm Stereo Jack omitted



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RF Characteristics		
Frequency Range (Specify): (Other Ranges Available)	UHF: 340.0 - 399.9 MHz Steps: 100 Lower L-Band: 1435 - 1535 MHz Steps: 1 N Upper L-Band: 1700 - 1850 MHz Steps: 1 N S-Band: 2200 - 2399 MHz Steps: 1 N ISM S-Band: 2400.00 - 2499.75 MHz Steps: 250 Dual L/S-Band: 1700-1850/2200-2500 MHz Steps: 1 N C-Band: 4400 - 4999 MHz Steps: 1 N Public Safety C-Band: 4940 - 4990 MHz Steps: 1 N	0 kHz MHz BCD, 250 kHz Other MHz BCD, 250 kHz Other MHz BCD, 250 kHz Other 0 kHz MHz BCD, 250 kHz Other MHz BCD, 250 kHz Other MHz BCD, 250 kHz Other
Frequency Selection (Specify):	Fixed or Channelized (Full Band - BCD Rotary Switches, RS and Programmable Binary Switch)	3232 Remote Control,
Maximum RF Input: Input Impedance: Noise Figure:	+10 dBm Without Damage 50 Ω Nominal, VSWR 1.5:1 Maximum UHF, Dual L/S: 4.5 dB Typical L/S/C-Band: 4.0 dB Typical ISM S-Band: 2.5 dB Typical	
Image Rejection:	UHF/L/S/Dual: 60 dB Minimum C-Band: 50 dB Minimum	
IF Frequency: IF Bandwidth: Harmonic and Spurious Level:	UHF: 140 MHz L/S/C-Band, Dual: 480 MHz UHF: 18 MHz L/S/C-Band, Dual: 20 MHz -50 dB Maximum	
Video Characteristics		
Modulation Type: Modulation Sense: Frequency Response (Specify): De-Emphasis: Output Level: Output Impedance:	Analog FM Standard (Positive) or Inverted (Negative), Slide Switch Se 10 Hz to 3.5 MHz (Monochrome), 4.2 MHz (NTSC), or 5.0 N 525-Line (NTSC) or 625-Line (PAL) 1 Vpk-pk / \pm 4 MHz @ Crossover Frequency, into 75 Ω Load 75 Ω Nominal, Unbalanced	∍lectable MHz (PAL), ±1.5 dB d
Subcarriers (Specify): Subcarrier Type (Specify): Subcarrier Frequency (Specify): Subcarrier Separation (Two): Modulation Type: Frequency Response: De-Emphasis: Output Level: Output Impedance:	None, One, or Two Audio or Data 4.83, 5.8, 6.0, 6.2, 6.5, 6.8, 7.2, 7.5, 8.3, 8.5, or 8.59 MH 1 MHz Minimum Analog FM, Positive Sense 100 Hz to 10 kHz \pm 1.5 dB (Audio) or 100 bps to 48 kbps (I 75 µsec NTSC or 50 µsec PAL (Audio) or None (Data) -10 dBV Line / 100 kHz pk-pk @ 1 kHz Rate into 600 Ω Loa 150 kHz pk-pk Deviation (Data) 600 Ω Nominal, Unbalanced (Audio) or 300 Ω (Data)	lz, or Custom Data) ad (Audio) or RS232 /
Power Requirements		
Input Voltage: Current Draw:	+9 to +16 Vdc, Reverse Polarity Protected 275 mA Maximum	
Mechanical		
Material: Finish (Specify): Dimensions: Weight: RSSI Display (Specify): Connectors:	CNC Machined T6061-T6 Aluminum Nickel Plated or Black Plated 2.50" W x 3.50" L x 0.85" H 6 oz. Maximum LCD Analog Bar Meter or LED Light Bar RF Inputs: SMA Female Video Output: BNC Female Audio/Data Output: 3.5mm Stereo DC Supply, Audio/Data, RSSI, RS232: MDM-9P) Jack (If Applicable)
Environmental		
Acceleration: Altitude: Humidity:	-20°C to +60°C 100 g, 3 Axes Unlimited Up to 95% @ Any Temperature Forming Frost or Condensa	ation