



## Mil Series Microwave Video and Audio Transmitter



- ❑ High Performance Microwave Video Transmitter
- ❑ Up to Two Audio Channels Available
- ❑ High/Low Power Selection
- ❑ L, S, C and X – Band Models
- ❑ Multi-Channel Selection or 1 MHz Steps
- ❑ Ferrite Isolator Output
- ❑ NTSC or PAL Standard
- ❑ Optional cut-and-rotate scrambling
- ❑ Rugged Packaging

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## MIL Series Microwave Video and Audio Transmitter

The MIL Series from AIRLINX Communications brings a new level of performance and reliability to video and audio transmission. Available in L, S, C and X-bands, the MIL-100 provides a minimum of 2W of power into any load. A low power selection is available for applications where power consumption is critical or link margin is sufficient. Packaged in a rugged aluminum housing, the single-board electronics construction lends the MIL Series to applications where severe environmental conditions are the norm. Frequency selection is controlled by a sixteen-position selector switch or by an optional BCD code plug for remote control in 1 MHz steps. An optional cut-and-rotate scrambler is integral to the receiver. A comprehensive front panel 9-pin connector provides quick and easy integration into any system without expensive specialized connectors. Two balanced audio subcarriers may be factory selected to any frequency between 5.5 to 7.5 MHz and configured for either microphone or line level. Video and audio pre-emphasis may be set to either the NTSC or PAL standard. The MIL Series transmitter is well suited for applications in Homeland Security, surveillance, law enforcement, military UAV and RPV, remote broadcast, video production, and airborne data/telemetry.

### Electrical:

- Frequency Range
  - MIL Analog 100L – 1.7 to 1.9 GHz
  - MIL Analog 100S – 2.2 to 2.5 GHz
  - MIL Analog 100C1 – 3.1 to 3.5 GHz
  - MIL Analog 100C2 – 4.4 to 5.0 GHz
  - MIL Analog 100C3 – 6.2 to 6.4 GHz
  - MIL Analog 100X – 8.2 to 8.6 GHz
- Ferrite Isolator Output Protection
- VSWR – Infinite (open or short)
- Modulation – True FM
- Modulation Sense – Positive
- Frequency Stability –  $\pm 0.002\%$
- Emphasis – NTSC or PAL
- Spurious/Harmonic Output –  $> -65$  dBc
- Analog or Digital Input filtering options
- Video Input Impedance –  $75 \Omega$  unbalanced
- Video Input Response – 10 Hz to 4.5 MHz
- Video Input Sensitivity – 8 MHz/Volt
- Audio – any two between 5.5 to 7.5 MHz
  - Phase Lock Loop
  - 20 Hz to 20 kHz  $\pm 1.5$  dB
    - $600 \Omega$  Balanced Input
    - Microphone or Line Level
- Power Output
  - High Power – 3.0 W nominal
  - Low Power – 0.3 W nominal

### Environmental:

- Operating temperature: -10 to +65 °C
- Relative Humidity: 0 to 95%, non-condensing

### Mechanical:

- 9-pin full function I/O connector
- Dimensions – 1.5 H x 2.5 W x 3.5 L inches
- Video Input – BNC female
- Housing – milled aluminum
- Weight – 6.0 oz.
- RF Output – SMA female

### Options:

- VID-1 NTSC format
- VID-2 CCIR format
- FRQ-0 Fixed Frequency Single Channel
- FRQ-X X number of channels (16 max.)
- FRQ-BCD Frequency selection via BCD
- SUB-1 Any frequency between 5.5 to 7.5 MHz (mic or line level)
- SUB-2 Any frequency between 5.5 to 7.5 MHz (mic or line level)
- SCRAM-1 Fixed code cut-and-rotate video scrambler
- SCRAM-2 Configurable code cut-and-rotate video scrambler

### Accessories:

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

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