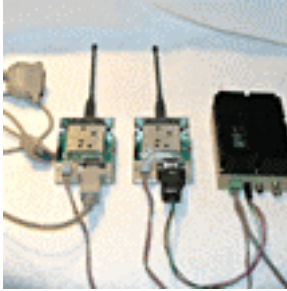


MGT Audio Video Transmitter

MTX 2500



The MTX 2500 is a high quality, professional audio/video transmitter which provides the highest technical specifications.

It has been designed for operation in broadcast, repeaters, industrial, airborne and a host of security applications.

It is available in three models covering the frequency bands of 1.118–2.700GHz. Frequency is simply selected by direct entry rotary switches.

Power output is 1W (1.118–2.000GHz) and 700mW (2.100–2.700GHz).

Operator adjustments are available for pre-emphasis, subcarrier frequency, video/audio levels etc.

Its solid milled aluminium enclosure is precision machined to accommodate the dual module system boards.

Specification MTX 2500	
Frequency of operation	1000–1100MHz 0.6W +1/-2dB
RF power output	1100–1200MHz 0.6W +1/-2dB
	1180–1350MHz 1.5W +1/-2dB
	1350–1550MHz 1.0W +1/-2dB
	1550–1700MHz 0.6W +1/-2dB
	1680–1850MHz 1.0W +1/-2dB
	1850–2000MHz 1.0W +1/-2dB
	Connector R.F. out BNC
	2000–2200MHz 0.6W +1/-2dB
	2200–2400MHz 0.6W +1/-2dB
	2400–2600MHz 0.6W +1/-2dB
2500–2700MHz 0.6W +1/-2dB	
Connector R.F. out SMA	
(US model - FCC approved, pt 90)	906, 916, 924MHz 1.0W +1/-2dB
Frequency selector	1MHz steps by external rotary switches
Video modulation	FM deviation ± 4 MHz adjustable. BB video level by internal trimmer
Frequency stability	± 50 kHz
Video input	1Vpp into 75 Ω (PAL, NTSC or SECAM) BNC connector with pre-emphasis selectable by internal link
Band pass video	50Hz–5MHz ± 1 dB
Audio modulation	FM Subcarrier at 5.5MHz or 7.5MHz, selectable by internal link Nominal deviation ± 50 kHz. Carrier level -30dB adjustable by SBC level trimmer
Audio input	Line=0dBm (100mV–2V) into 5k Ω Mic electronic audio level adjustable by internal link Mic or RCA line connector
Stereo version	7.500MHz Ch1, 8.065MHz Ch2
Band pass audio	25Hz–15kHz ± 3 dB input line pre-emphasis 50ms
Power	11–15Vdc 0.6A for 0.6W RF out 0.8A for 1.0 or 1.5W RF out (optional: power switching by remote control)
Temperature	In open air with built-in heat sink -15/+40°C In open air with external heat sink -15/+50°C
Dimensions	123mm x 78mm x 36.5mm excluding connector
Weight	500g

Diagram of MTX 2500

