

MX-1700B VIDEO TRANSMITTER

1.7 GHz

The new 1.7 GHz Audio/Video transmitter is a special design for Military applications capable to work in extremely low or high temperature range. This special audio/video sender has been designed for Aeronautic or Space experiments. This transmitter has 8 selectable channels with indication.



FEATURES:

- 8 Selectable channels
- 1.7 GHz Band
- Excellent for covert operations
- 12 V battery operated
- RCA F or open wire for video input
- Broadcast picture quality
- Range 2 miles from the AIR
- Recommended receiver VRX series

Technical Specifications	MX-3000B
Operating Frequencies:	1700 MHz- 1850 MHz
Channels selection:	On board selectable
DC Voltage:	12 V
RF power:	100 mW/ 12 V
Minimum required voltage:	10 V
Battery power:	12 V
Video distortion:	2%
Maximum range:	2 miles from the AIR
Video Format:	PAL, NTSC
Current Consumption:	160 mA / 12 V
Antenna:	N/A
Antenna Connector:	SMA
Impedance:	50 ohms
Video Connector:	RCA F or open wire
Video Impedance:	75 ohms
Video level:	1 V
Audio level:	2 mV
Temperature Range:	-40 +75* C
Dimensions:	1.7" X 1" X 0.3"
Weight:	18 grams
Modulation:	WFM



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MX 1700B MORE INFO:

Operating Distance

3000 ft line of sight (US / Canadian version), more or less depending on conditions, antennas used, elevation, etc. Government & Export version will have considerably more range.

Operating Frequency

1700 MHz – 1850 MHz in 8 user selectable channels. Up to 8 systems may be used in the same area simultaneously with VRX 24L receiver.

Transmission Type

FM, Crystal referenced, synthesized phase locked loop. Frequency controlled by microprocessor.

Frequency stability (-40 to +75° C,	± 0.003%
Radiated power (US & Canadian version)	80mW- 100 mW (9V – 12V)
Spurious & harmonic response	< 50dBc

Video System

Video level (internally adjustable)	1.0 Volt p-p into 75 Ohms
Impedance	75 Ohms
Video deviation	± 6 MHz (adjustable from ± 1 to ± 5 MHz)

Antenna US/Canada:

3 dBi gain. Flexible helical type (Rubber Duck), SMA female connector

Audio Modulation Type

Maximum deviation	± 75 kHz
System signal to noise ratio at 50kHz deviation	65 dBA
Pre & deemphasis	75µ Second

Audio Input & Outputs

Microphone input level (full gain to minimum gain)	All dB figures referenced to 0 dB = 0.774Vrms -37 dB to -6 dB for ± 50 kHz deviation (5 mV)
Microphone input impedance	2k Ohms
Power for Electret microphones (switchable)	+9 VDC @ 1mA max.
Line input (full gain to minimum gain)	-4 dB to +22 dB for ± 75 kHz deviation
Line input impedance	10k Ohms
Frequency response at 20 dB below full deviation	40 Hz to 15 kHz +1, -3 dB, 60 Hz to 10 kHz ± 1 dB (Option: may be extended to -3 @ 30kHz.)
Total harmonic distortion (before limiting)	0.5% at 400 Hz (0.25% typical)

Audio Carrier Offset from Video	6.0 MHz
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Power

10 V-12 VDC Nominal. See below for details.

Transmitted power levels, current consumption and maximum voltage

Type of Transmitter: CVT-1000	Transmitted Power Levels	Current Consumption / Maximum Voltage
US & Canada version	100mW	135 mA / 14.4V Max
Government & Export version	POWER AMP VERSION	AVAILABLE

Mechanical**Size**

1.7" X 1" X 0.3"

Weight

10 grams

with antenna & bracket

12.8 grams

Connectors

Power & Audio

N/A

Video IN

BNC 75 Ohm

Antenna

SMA

Environmental

Operating temperature

-40°C to +60°C

Storage temperature

-40°C to +70°C (-40°F to + 158°F)

Humidity (non-condensing)

90%

Powerup

At powerup, the unit will retrieve the last used channel, program the PLL with this channel, and display the channel by blinking the LED the same number as the channel number.

Displaying Current Channel

Push button is located on the top of the unit. To display the current channel, press the pushbutton once and release. The current channel will blink. After approx. 5 seconds, the current channel will again blink.

Changing to a New Channel

To change to a new channel, press the pushbutton once and release. The current channel will blink. Press and release the pushbutton again **before** 5 seconds has elapsed and the channel will increment by 1 and the LED will blink the new channel. Repeat this step until the desired channel is reached, waiting for the blinking to stop each time before pressing the button again.

Once your desired channel is reached, wait 5 seconds until the LED again blinks your desired channel. Your new channel is now saved in memory.

8 CHANNELS ARE AVAILABLE IN 1.7-1.85 GHz RANGE:

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