

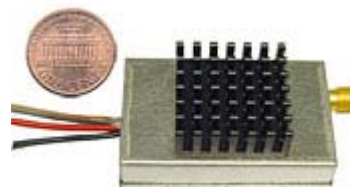


MX-1700D

AUDIO/VIDEO TRANSMITTER

1.7 GHz BAND

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. MX-1700D will give full 500 mW RF power. This special audio/video sender has been designed for Aeronautic or Space experiments. This transmitter has 8 selectable channels with indication. MX-1700D/6 works on 6 V DC. MX-1700D/12 works on 12 V DC.



Operating Frequencies:	1700 MHz- 1850 MHz
Channels selection:	On board selectable
DC Voltage:	6 V or 12 V DC
RF power:	550 mW/ 6 V
Minimum required voltage:	5 V
Battery power:	6 V
Video distortion:	2%
Maximum range:	5 km from the AIR
Video Format:	PAL, NTSC
Current Consumption:	450 mA / 6 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:	25 grams
Modulation:	WFM



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MX-1700D MORE INFO:

Operating Distance

5 km 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 1700 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)	500 mW / 6 V, 500mW / 12 V
Spurious & harmonic response	< 50dBc

Video System

Video level (internally adjustable)	NTSC or PAL
Impedance	1.0 Volt p-p into 75 Ohms
Video deviation	75 Ohms
	± 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	FM
System signal to noise ratio at 50kHz deviation	± 75 kHz
Pre & deemphasis	65 dBA
	75µ Second

Audio Input & Outputs

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

Audio Carrier Offset from Video

6.0 MHz

Power

6 V DC or 10 V-12 VDC using an external Regulator to 6 V



MX-1700D AUDIO/VIDEO TRANSMITTER 1.7 GHz BAND

Mechanical

Size 1.7" X 1" X 0.3"

Weight 25 grams
with antenna & bracket 35 grams

Connectors

Power & Audio N/A
Video IN SMA 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: