



900MHz 500mW Wireless A/V Transmitter Part Number TX9-500 (USA)

The TX9-500 is a miniature audio-video (A/V) transmitter that operates on the 900MHz RF band. It is designed for ham radio hobby use and must not be used in commercial applications.

Due to its high RF power, using the TX9-500 in the USA and other countries will require an amateur/ham radio license (some countries may forbid its use). It is your responsibility to ensure that its use meets the requirements imposed by your government's RF spectrum regulations. Do not purchase this product if you are unsure of the government requirements or are not able to comply with them.



DPCAV or its resellers will not be held responsible for ANY problems that may occur due to the use of this RF device. Use at your own risk!

SPECIFICATIONS (USA MODEL ONLY)

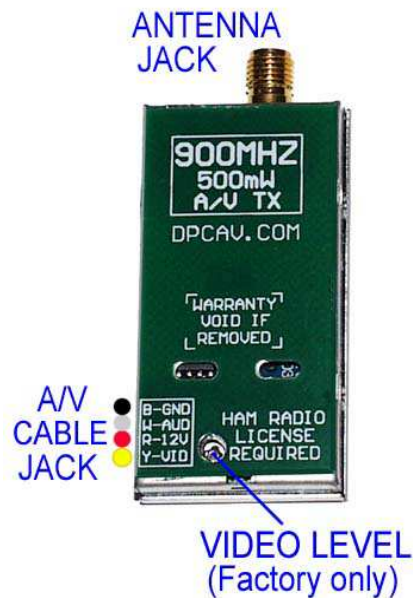
Frequency: 910MHz (CH-1), see note 1
RF Power: 500 milliwatt
RF Port Z: 50 ohms
Modulation: FM video / FM audio
RF Stability: ± 250 KHz, phase lock loop (PLL) controlled
Video Type: Composite NTSC or PAL
Video Level: 1Vpk-pk
Video Z: 75 ohms
Audio Input: Mono, standard line level (1V)
Audio Z: 10K ohms
Voltage: 12VDC (min 9.5VDC, max 13VDC)
Current: 200mA typical, 250mA maximum
Ant Jack: Female SMA
A/V Cable: Video RCA / audio RCA / power barrel, 13 inches (330mm) long
Power Jack: 2.1mm x 5.5mm DC barrel type, + center pin
Range: >500 meters typical (unobstructed open area)
Weight: 21 grams (58 grams with AV cable and standard monopole antenna)
Dimensions: 2.0 x 1.0 x 0.35 inches (50 x 26 x 9 mm)

Notes: (1) 910MHz is the only authorized amateur radio frequency available in the USA. Do not attempt to modify the TX9-500 transmitter for other frequencies. (2) Specifications subject to change without notice.

INSTALLATION NOTES

1 A/V Cable Details:

A/V CABLE COLOR CODE	
Black	Ground
White	Audio
Red	+12VDC
Yellow	Video



- Do not operate the TX9-500 without an antenna and never use an antenna that is not designed for 900MHz operation. Doing that is stressful to the transmitter's circuitry and may cause permanent failure.
- Do not exceed the recommended voltage and never connect the power connections backwards (reverse polarity). Otherwise serious damage will result and the warranty will be voided.
- If mains powered, the TX9-500 requires a voltage regulated 12VDC wall adapter. Do not use unregulated types since they may cause serious damage. Battery power sources are recommended; a 3-cell (11.1V) lithium polymer / LiPO pack works well for portable operation.
- The audio input is configured for standard line level audio sources. Microphones can be used but must be the amplified type, such as DPCAV's Tiny-Mic (part number MIC-001).
- The transmitter will become hot during use. It must have adequate air flow to prevent over heating. Never block the air holes. If it becomes too hot to touch then immediately remove power and allow it to cool.
- The 900MHz RF signal is very strong and may cause EMI/RFI (interference) to nearby GPS systems, electronic controllers, radio receivers, and other electronic items. If this occurs, move the transmitter antenna further away from the affected items and any related wiring. We recommend a minimum of 12 inches (more may be required).
- The video level pot is a factory only adjustment. Never adjust it without the proper equipment and training. An insulated (non-conductive) tool **MUST** be used.