

T-500

Multi-Channel FM Assistive
Listening Transmitter
(72-76 MHz.)



Lifetime
Warranty

The T-500 is an FM multichannel transmitter operating in the 72-76MHz frequency range. Designed specifically for assistive listening and simultaneous interpretation applications, it features 3 main audio inputs that allow the direct connection of virtually any audio source, including a 3.5 mm jack for headset microphones, an XLR & ¼ inch combination jack with a selector for dynamic microphones, condenser microphones or line-level signals, and an RCA line auxiliary input. It also has a recording output and a 3.5 mm monitor headphone jack. It is compatible with the Enersound R-120 and R-100 receivers and most 72-76 MHz FM receivers in the market.

The T-500 has a unique integrated interpreter monitoring function that allows the interpreter to listen to the source language from their earphones, control the incoming volume and mute their microphone when needed, minimizing any background noise, and allowing the interpreter to sit in a designated area within the venue or inside a booth. For more advanced interpreting functions, it can also be utilized with the Enersound IC-12 multi-channel interpreter console or with any other interpretation platform with analog audio inputs and outputs.

Note: The T-500 transmitter is approved by the FCC for operation in U.S. markets. The transmitter cannot be used in all countries. Check with your government's radio regulations for 72-76 MHz operation.

Features:

- 17 selectable channels in 72-76 MHz.
- Superb Audio Quality.
- Easy set-up and operation.
- LCD display with backlight.
- Recording output.
- 3.5mm microphone input with mute button on the front panel.
- 3.5mm headphone output.
- Multiple inputs and connector types (XLR, 1/4", RCA, 3.5 mm).
- Broadcasts to an unlimited number of receivers.
- Dedicated master volume control.
- Unique integrated interpreter monitor function.
- Tabletop or rack mountable.
- Universal Power Supply (100-240V.)
- Limited Lifetime Warranty
- FCC Part 15 & IC compliant
- Channel or frequency display modes for best compatibility with non-Ener-sound receivers.

In the box:

- (1) T-500 FM Transmitter (72-76 MHz)
- (1) ANT-500 helical flexible antenna.
- (1) PS-500 power supply with AC cord.
- (1) User manual.

Range:

Up to 500ft in all directions. It can be extended to up to 1000ft with an external antenna sold separately.

Licensing:

It has been granted FCC and Industry of Canada Id numbers that allow its legal use in the United States and Canada without the need of any type of license or permit.

FCC Id: 2ABY4T500 / **IC:** 11832A-T500.

Back Panel:



Accessories



RM-502 Dual Rack Mount Kit for T-500

Allows to mount two transmitters on a standard 19" rack.



RM-501 Single Rack Mount Kit for T-500

Allows to mount one transmitter on a standard 19" rack.



ANT-501 Remote Antenna w/ 50' coax cable

Used when the transmitter must be placed in a different area, such as an adjacent room from where the audience is located.



ANT-500 Replacement Helical Flexible Antenna



RAK-500 Rack Mount Antenna Kit

Includes: 90-degree adapter, female to female rack mount antenna connector, 2 feet cable assembly.



PS-500 Replacement Power Supply

Frequency Chart

CH 1	72.1 MHz
CH 2	72.5 MHz
CH 3	72.9 MHz
CH 4	75.7 MHz
CH 5	74.7 MHz
CH 6	75.3 MHz

CH 7	72.3 MHz
CH 8	72.7 MHz
CH 9	75.5 MHz
CH 10	75.9 MHz
CH 11	72.2 MHz
CH 12	72.6 MHz

CH 13	75.4 MHz
CH 14	75.8 MHz
CH 15	72.8 MHz
CH 16	72.4 MHz
CH 17	75.6 MHz

Technical Specifications

RF	Operating Frequency	72.1-75.9MHz
	Number of Channels	17 Selectable
	Frequency Deviation	Selectable, Wide: +/- 75kHz or Narrow: +/- 25 kHz (Maximum Deviation)
	Frequency Accuracy	+/- 0.005% stability from 0~+50 degree C
	Transmitter Stability	+/- 20ppm
	Output Power	Hi: 80,000uV/m at 3meter, Low: 40,000uV/m at 3meter
	Antenna	Rubber ducky antenna with 50 ohm impedance or optional remote antenna
	Antenna Connector	Modified TNC
	Compliance	FCC part15, Industry Canada
AUDIO	Frequency Response	100Hz ~15KHz (+/- 3db)
	Signal to Noise Ratio	70db
	System Distortion	< 2% (THD) at 80% deviation.
	Audio Input 1	3-Pin XLR and ¼" (TRS) combination jack for MIC or LINE level Balanced or unbalanced. Nominal input level 0/56dbu (0.77V/1.3mV) (line/mic) Phantom Power:12VDC PIN 2&3 on XLR or Tip and Ring on ¼" TRS Jack
	Audio Input 2	RCA Jack, unbalanced Line Level -10dBu nominal, 100k ohms.
	External Monitor In.	RCA Jack, unbalanced, Line Level -10dBu nominal, 100k ohms.
	REC Output	RCA Jack, unbalance output, Line Level -10dBu nominal, 10 ohms.
	MIC Input	Front panel: 3.5mm 1/8" TRS jack, supplies +DC on tip for electret mics.
	Audio Processing	Built-in signal compression 2:1.
Headphone Out.	Front panel: 3.5mm stereo TRS jack adjustable output level, Max Power 61mW @8ohm, Impedance: 4~16ohm.	
POWER	Power Supply Type	In Line, UL listed
	Power Supply In.	100~240VAC, 50-60Hz
	Power Supply Out.	15VDC, 1A
	Power Supply Connector	Output Connector: .02 in.(5.0 mm) OD, .01 in.(2.5mm) ID, barrel type
ENVIRONM.	Temp. Operation	-5°C (23F) to + 40°C (104F)
	Temp. Storage	-20°C (-4F) to + 60°C (140F)
	Humidity	0~95% Relative Humidity
PHYSICAL	Dimensions (DxWxH)	Without top antenna connector: 5" x 5.5" x 1.75" (127 x 140 x 45 mm) With top antenna connector: 5" x 5.5" x 2.36" (127 x 140 x 60 mm)
	Color	Black
	Unit Weight	1.2 lbs. (0.54 Kg)
	Power Supply Weight	0.5 lbs. (0.22 Kg) with AC cord
	Shipping Weight	2.2 lbs. (1.1 Kg)
	Rack Mounting	One (1.5) rack space height, 1/2 rack space wide, One or Two transmitters can be mounted in 1.5 rack space, Option rack mount (RM-501 or RM-502)