

T-500-4

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



3-year
warranty

The T-500-4 is an FM 4-channel 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-500-4 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: This transmitter is approved by the FCC for operation in U.S. markets. It cannot be used in all countries. Check with your government's radio regulations for 72-76 MHz operation.

Features:

- Superb Audio Quality.
- Features 4 selectable channels
- Broadcasts to an unlimited number of FM receivers.
- 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.)
- Dedicated master volume control.
- Unique integrated interpreter monitor function.
- Tabletop or rack mountable.
- Universal Power Supply (100-240V.)
- 3-year Warranty
- FCC Part 15 & IC compliant
- Channel or frequency display modes for best compatibility with non-Enersound receivers.

In the box:

- (1) T-500-4 FM Transmitter (72-76 MHz)
- (1) ANT-500 helical flexible antenna.
- (1) PS-500 power supply with AC cord.
- (1) User manual.

Range:

The T-500-4 has a coverage range of up to 500ft in all directions. It can be extended to up to 1000ft with an external antenna sold separately.

Licensing:

The T-500, version 4 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

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



RM-501 Single Rack Mount Kit

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 |

Technical Specifications

| | | |
|----------------|--|--|
| RF | Operating Frequency | 72.1, 72.5, 72.9, 75.7 MHz |
| | Number of Channels | 4 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 part 15, 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 1/4" (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 1/4" 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) |