



## TR-50 Manual

### OPERATING INSTRUCTIONS

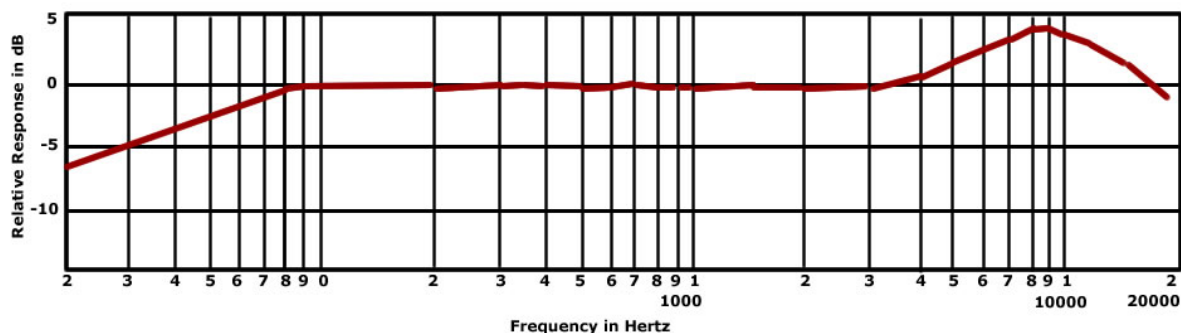
(For technical support call your authorized TRAM™ distributor – a list is provided on our website <http://www.tram-usa.com>)

The TRAM™ TR-50 is a professional lavalier microphone that answers the needs of the most demanding sound recording engineer. It has been designed with the latest electret development and electronics technology. Its small size and unique design permit a variety of uses and fastening options, that make it ideal for unobtrusive appearance and hidden mic use.

The microphone element mounting and cable have been engineered to reduce rubbing noise to an absolute minimum. The custom designed cable is twin lead, multi-stranded construction that provides the greatest possible strength and flexibility.

The extended frequency response range and omni-directional characteristics have been designed to satisfy the most stringent requirements in all professional audio fields, particularly film and TV production.

In addition to its use with wireless transmitters, the TR-50 can be used as a low impedance hard-wired microphone with the TR-79 power supply. 12/48v phantom powering (in addition to internal powering) is available on all TR-50 PS microphones and TR-79+ bias power supplies.



Type	Omni-directional electret
Color	Black, Gray, Tan or White
Frequency Response	40-16,000 Hz
Noise Level	26dB SPL Nominal

	TR-50	TR-50PS	TR-79
Size	18 X 300 X .55	Same	.750 dia x 4"
Nominal Impedance	3000	250	250
Maximum SPL	-134dB	-134dB <sup>1</sup>	
Output Level	-57dB	-53dB	
Current Drain (Micro A)	20-30	80-100	80-100
Battery		357 (SR44W313)	357 (SR44W313)
Voltage	1.5v	1.5v	1.5v
Phantom Power		12/48v <sup>2</sup>	

<sup>1</sup>With phantom power: Up to -150db

<sup>2</sup> When using phantom power: (Positive Bias TR-79 only) REMOVE INTERNAL BATTERY.

**IMPORTANT FOR USERS OF PHANTOM POWER  
(Positive Bias TR-79 ONLY)  
Remove the internal battery when using phantom power.**

The TR-50 is available with a variety of connectors (Micro-Mini, 4,6 or 8 pin Lemo, Mini Switchcraft, Sony, Sennheiser etc.) for direct attachment to any wireless microphone transmitter. The TR-79 power supply provides a balanced transformer output to an XLR connector and uses an Eveready 357 battery. The battery compartment is designed to permit only one insertion direction, so the polarity cannot be reversed. This compartment is accessible by turning the black plastic end cap counter clockwise and pulling firmly. The battery is removed by pushing it out with a sharp object through the hole provided in the bottom of the compartment.

**The battery should be removed when the microphone is not used for extended periods of time.**

## **STANDARD ACCESSORIES (Supplied with microphone)**

CABLE HOLDER (°CH)  
CARRYING CASE (°CC)  
CLIP ON HOLDER (°COH)  
TAPE DOWN HOLDER (°TD)  
TIE BAR (°TB)  
TIE TAC (°TT)  
WIND SCREEN (°WS)  
CABLE REEL (°CR) (PS ONLY)

Available in Black, Gray, Tan or White

## **ADDITIONAL ACCESSORIES**

Boundary Layer Adaptor: Tape down (°BLTD)  
Double MIC Holders: Tie Bar (°DTB)  
MIC CAGE: Plain back (MCI)  
MIC CAGE: Clip on back (MC2)

## **USING CLIP ON AND TAPE DOWN HOLDERS UNDER CLOTHING**

When using the Clip On and Tape Down Holders under clothing, mount the mic with the back out (facing clothing), as the back of the microphone housing has less rubbing noise than the front (grid). There will be no reduction in audio sensitivity due to the excellent omni-directional characteristics.

## **TR-50 (Two Conductor)**

<b>Positive Bias</b>	Audio-Red Ground - Black and Shield
<b>Negative Bias</b>	Audio-Black Ground - Red and Shield

## **WARRANTY** Limited

TRAM® microphones are warranted to the original purchaser to be free from defects in material and workmanship under normal use for a period of one year from date of purchase. During this one year period and upon proof of purchase, your TRAM microphone will be repaired or replaced, at our option, without charge for either parts or labor, provided the microphone is sent prepaid. This warranty will not apply if the microphone has been misused, abused, incorrectly wired or altered. Warranty repair/replacement does not extend this warranty.

Theodore A. Rapp, Associates