The advanced provider of professional wireless communication

A M E R I C A , I N C

TR-50

Portable Repeater











- **■** Floating Charge
- **LED Indicators**
- **PC Programming & Tuning**

Applicable MIL-STD-810C/D/E/F

Applicable		810D	810E	810F
MIL-STD	Methods Procedures	Methods Procedures	Methods Procedures	Methods Procedures
Low Pressure	500.1 1	500.2 1,2	500.3 1,2	500.4 1
High Temperature				501.4 1,2
Low Temperature	502.1 1	502.2 1,2	502.3 1,2	502.4 1,2
Temp. Shock	503.1 1	503.2 1	503.3 1	503.4 1
Solar Radiation	505.1 1	505.2 1	505.3 1	505.4 1,2
Rain	506.1 2	506.2 2	506.3 1,2	506.4 1,2
Humidity	507.1 2	507.2 2,3	507.3 2,3	507.4 1
Salt Fog	509.1 1	509.2 1	509.3 1	509.4 1
Dust	510.1 1	510.2 1	510.3 1	510.4 1
Vibration	514.2 8,10	514.3 1	514.4 1	514.5 1
Shock	516.2 1,2,5	516.3 1,4	516.4 1,4	516.5 1,4

General

Frequency Range(MHz)		(MHz)	VHF: 146-174 UHF: 440-470	
	Channel Capacity		1	
	Channel Spacing(кнz)		25 /12.5	
Operating Voltage(v)			AC 100-240 / DC 10.2-14.6	
		Standby	0.2A or less	
	Current Drain	Receive	0.8A or less	
		Transmit	2.2A or less	
Frequency Stability(ppm)				
Operating Temperature(°C)		ature(°C)	-30~+60	
Antenna Impedance(Ω)				
	Dimensions (L×W×H)(in.)		8.58*3.54*8.74	
	Weight (oz.)		102.29	

Transmitter

RF Power Output	4.5±0.5W	
Modulation	16k φ F3E / 8k5 φ F3E	
Spurious and Harmonics	70dB	
FM Noise	40/35dB	
Audio Distortion		

All specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.

Receiver

	≤0.35 μ V
Selectivity	70/60dB
Intermodulation	65/60dB
Spurious Response Rejection	70/65dB
	45/40dB
Rated Audio Power Output	500mW
Rated Audio Distortion	≤5%

FCC Approved Bands: (136-174MHz) FCC ID Number: R74TR-50U

FCC Approved Bands: (440-470MHz) FCC ID Number: R74TR-50V







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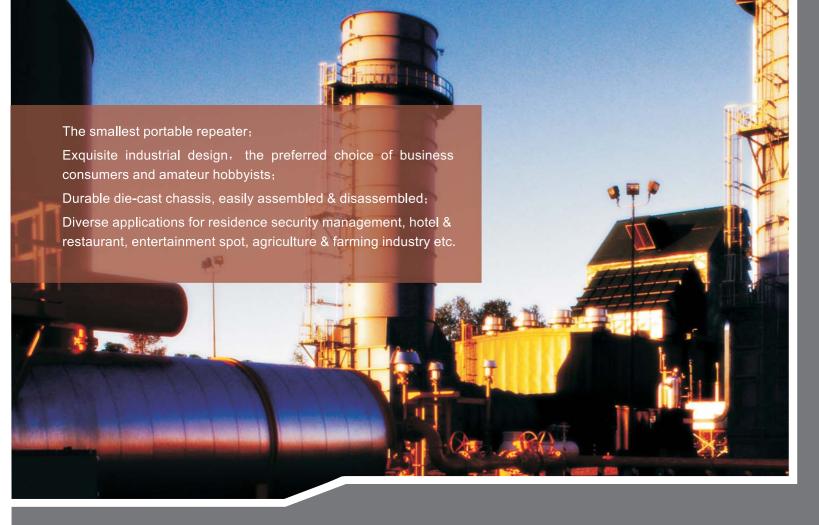
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TR-50

Portable Repeater

Super Features –

- CTCSS/CDCSS encode & decode function, providing high flexibility for network application;
- AC/DC power supply selectable, with optional DC auto-revert feature & external jack for floating charge function;
- Switchable PTT Controlled/Continuous/ Temperature Controlled fan;
- PC programmable with external RJ45 I/O port;
- Compact portable design, internal installation available for duplexer.



Main Features -

CTCSS/CDCSS Encoder & Decoder

Set up talkgroups/users with unique CDCSS/CTCSS to prevent unwanted conversations on the same frequency.

Floating Charge

The TR-50 provides selectable AC(100~240V 50/60Hz)/DC(10.2~14.6V) power supply. Normally users can equip battery back-up system connected to the external DC jack with floating charge function in the mean time. This supports auto-switching to DC battery once the AC power

Multi-control For Onset Of The Fan

The powerful DC brushless fan inside the cabinet is to effectively ensure the transmitter's durability and stability while working in tough situations. Three options for the jumpers are PTT controlled, Continuous and Temperature controlled respectively.

LED Indicators

The LED indicators on the front panel highlight system status at a glance, including power-up, receive and transmit.

Programmable Channel Spacing

Users can set either a 25KHz or a 12.5KHz channel spacing to accommodate present and future channel allocations according to local radio regulations.

PC Programming & Tuning

The repeater provides tuning in the field from a desktop or portable PC. Radio parameters for programming are TX/RX frequency, CTCSS/CDCSS, squelch level, etc.

Base Station Capabilities & Local Speaker

The TR-50 can be operated as a full-duplex base station with the optional SM-08R Microphone connected. In addition, a built-in speaker on the front panel allows the channel conversation to be monitored.

Compact Desktop Design & Duplexer Installation

This portable repeater can be placed in office environments or dispatch centers with minimal space required. Installation for the duplexer is available inside the cabinet.

Recommended Applications

Hospitality

Farming Industry

Construction

Entertainment Spot

Property Management

Accessories

Standard **Accessories**

Optional Accessories















