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

Applicable	810C	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	501.1 1,2	501.2 1,2	501.3 1,2	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

## **TR-50**

### **Portable** Repeater



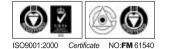


General											
Frequency Range	9(MHz )	VHF: 146-174 UHF: 440-470									
Channel Capacity	/	1									
Channel Spacing	( KHz)	25 /12.5									
Operating Voltage	9(v)	AC 100-240 / DC 10.2-14.6									
	Standby	0.2A or less									
Current Drain	Receive	0.8A or less									
	Transmit	2.2A or less									
Frequency Stabili	ty(ppm)	±2.5									
Operating Tempe	erature(°C)	-30~+60									
Antenna Impedar	nce(Ω)	50									
Dimensions (L×V	W×H)(mm)	218 × 90 × 222									
Weight (g)		2900									

Transmitter

#### Receiver

RF Power Output	4.5±0.5W	Sensitivity	≪0.35 µ V
Modulation	16k φ F3E / 8k5 φ F3E	Selectivity	70/60dB
Spurious and Harmonics	70dB	Intermodulation	65/60dB
FM Noise	40/35dB	Spurious Response Rejection	70/65dB
Audio Distortion	≪5%	S/N	45/40dB
All specifications are tested accor	rding to TIA/EIA-603, and subject to change	Rated Audio Power Output	500mW
without notice due to continuous	development.	Rated Audio Distortion	< 50/



without notice due to continuous development.



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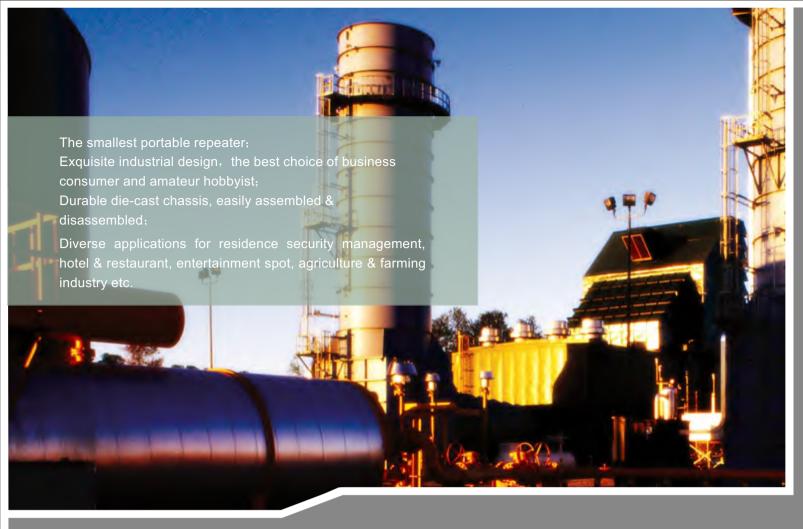
HYT retains right to change the product design and specification. Should any printi ng mistake occur, HYT doesn't bear relevant responsibility. Little difference bet ween real pro duct and pro duct indi cated by pri nting materials will occur by printing reason.

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# TR-50

#### **Portable Repeater**

Main Features

CTCSS/CDCSS Encoder & Decoder

#### **Floating Charge**

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 supply fails.

#### Multi-control For Onset Of The Fan

effectively ensure the transmitter's durability and stability while working at 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.

#### Acces

Stand Access

Optio Access







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.



**LED** Indicator

**Power & Volume Control Knob** 

**RJ45 Interface** 





#### **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 makes it available that the channel conversation can be monitored.

#### **Compact Desktop Design & Duplexer** Installation

This portable repeater can be placed in office environments or dispatch center with minimal space required whereas duplexer installation is still available inside the cabinet.

#### **Recommended Applications**

Hospitality

Farming Industry

Construction

Entertainment Spot

#### **Property Management**

sories		
lard ories	AC power cable (EUplug) PWC03 DC power cable	PWC07 Palm microphone SM08R1
exer exer	PC15 reliver programming cable Mobile Antenna PC14 Transmitter programming cable	DT01 External duplexer (Frequency 137-172MHz; Tx-Rx separetion 4-15MHz) DT02 External duplexer (Frequency 336-370MHz; Tx-Rx separetion 5-20MHz) DT03 External duplexer (Frequency 336-370MHz; Tx-Rx separetion 5-20MHz) DT03 External duplexer (Frequency 336-470MHz; Tx-Rx separetion 5-20MHz) DT04 External duplexer (Frequency 436-174MHz; Tx-Rx separetion 5-2-8MHz) DT05 Internal duplexer (Frequency 400-480MHz; Tx-Rx separetion 8-15MHz)
	Antenna	