# **Specifications**

General	TR-800
Frequency Range*	VHF: 136MHz~174MHz
	UHF: 350MHz~400MHz 400MHz~470MHz 450MHz~512MHz
Channel Capacity	512
Channel Spacing	12.5KHz / 25KHz
Operating Voltage	13.8 V DC $\pm$ 20% / 88 $\sim$ 264V AC 50/60Hz
Duty cycle	25W(100% Continuous) /50W(50% Intermittent)
Current Drain Standby:	<1.8A
Receive:	<2.5A
Transmit:	<13A @ 45W Transmit (13.8V DC)
Frequency Stability	±2ppm @ -25℃~+60℃
Operating Temperature	-25°C $\sim$ +60°C
Antenna Impedance	<b>50</b> Ω
Dimensions (L×W×H)	310mm ×190mm ×362mm
weight	11kg
LED Indicators	Battery On, Tx, Rx, RPT, OPT, Setup

S/N

Transmitter	TR-800
RF Power Output	
(Conducted)	25W / 50W
Modulation	8K5
Spurious and Harmonics	≪-36dBm (< 1GHz)
FM Noise	≥45dB(Wide) ≥40dB(Narrow)
Modulation Distortion	≪3%

	TR-800
Receiver Desensitization	≪3dB
Receiver Spurious Rejection	≥67dB

\*Radio Dependent, Crossband Model is Available. All measurementsper TIA/EIA-603. All Specifications are subject to change without notice due tocontinuous technology development.



ISO9001:2000 Certificate NO:FM 61540

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TR-800 Sensitivity (12dB SINAD) <0.35uV Selectivity ≥70dB (wide) ≥60dB (narrow) Intermodulation ≥70dB Spurious Response Rejection ≥75dB ≥45dB (wide) ≥40dB (narrow) Rated Audio Power Output 5W (Internal) 12W (External @ 4Ω) Rated Audio Distortion ≤3% (3W) ≤10% (5W)

> HYT retains right to change the product design and specification. Should any printing mistake occur, HYT doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.



HYT

Conventional Repeater

# TR-800





#### Powerful, Varied Speed and Thermal-controlled Fan

A 4.7" brushless fan mounted on the back and the front vent-slot provide good ventilation for the transmitter. The fan is thermal-controlled for guiet performance and enhanced efficiency.

#### Integrated Front Panel with Repeater Controller

The logic and audio circuitry is integrated with display unit in a single control panel, which provides smart and simple access to both radios inside. The front panel LEDs show realtime condition of the TR-800.



Floating Charge The floating charge function is intended to maintain a back-up battery for long periods of time between power failures.

Optional AC, DC Power Supply The TR-800 provides a wide range of AC mains input to accommodate local standard.



**Configuration Flexibility** You can choose the best-fit frequencies and powerlevels for your business - or combine two frequencies to create a bidirectional or crossband repeater.

Repeater

#### Sleek&Compact Desktop Design The TR-800 suits any office location,

and allows convenient access for system adjustments.

HYT newly launched TR-800 is a compact, extensive specification 45-Watt Base Station / Repeater that enhances your analog conventional system seamlessly and cost effectively.

Desktop design, remarkable flexibility and outstanding reliability make the TR-800 suit a wide variety of applications and can be easily integrated with your existing infrastructure.

The radio configuration offers you maximum expansion of communication range without compromising on performance at a low

cost.

# **Optional Accessories**

# Duplexer

Notched duplexer lets you use a single antenna for both transmit and receive - and free tower space and feed lines.(Internal mounting space reserved for duplexer option)

**Palm or Desktop Microphone** Microphones including palm and desktop models, are available for

Two types of antennas - mobile

and omni-directional antenna

are available for your system

**Mobile or Omni-directional Antenna** 

dispatch applications.

planning.





DT01 (137MHz~172MHz)

DT04 (380MHz~470MHz

# DT02 (220MHz~240MHz)





Palm Microphone SM07R2

Desktop Microphone SMIORI

Unique Versatility

#### **CTCSS/CDCSS** Feature

-allows you to talk on personal groups exempt from disturbance and illegal intrusion.

#### **Repeater Hang Time**

-makes the repeater remain transmitting after an active and valid signal is no longer received, which reduces delay on conversation due to the setup of repeater link. The duration time can be programmed from 0 to 7 seconds.

#### **Real-time Scan**

-enhances your cost-effectiveness and broadens your customer base by time division sharing, and eases conventional roaming service as well.

### **Operation Flexibility**

-offers you a range of options to accommodate your application requirements. You can choose Base station, uni-directional repeater or bidirectional repeater mode through configuration of the front panel and internal switches.

#### Adjustable Poweroutput (HI/MED/LOW)

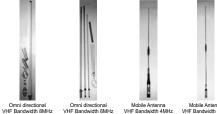
-helps you balance the power consumption and communication range - critical in location with only DC power supplies.

#### **Time-out Timer**

-prevents user from excessive use of repeater.

#### **Readable Frequency**

-allows quick and easy access to channel configuration during system diagnosis.



UHF Bandwidth 14MHz UHF Bandwidth 14MHz

Mobile Antenna VHF Bandwidth 4MHz UHF Bandwidth 15MHz UHF Bandwidth 15MH

# TR-800

DT03 (336MHz~370M)