

## 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	13.8V DC $\pm$ 20% / 18~26V AC 50/60Hz
Duty cycle	25W (100% Continuous) / 45W (50% intermittent)
Current Drain	<1A
Standby:	<2.5A
Receive:	<13A @ 45W (13.8V DC)
Transmit:	$\geq$ 300MHz $\pm$ 1.5ppm (-25°C ~ +60°C)
Frequency Stability	<300MHz $\pm$ 2ppm (-25°C ~ +60°C)
Operating Temperature	-25°C ~ +60°C
Antenna Impedance	50 $\Omega$
Dimensions (L×W×H)	310mm × 190mm × 360mm
weight	12kg
LED Indicators	Battery On, Tx, Rx, RPT, OPT, Setup

Transmitter	TR-800
RF Power Output (Conducted)	45W/25W
Modulation	8K50F3E / 16KQF3E
Spurious and Harmonics	$\leq$ -36dBm (< 1GHz)
FM Noise	$\geq$ 45dB(Wide) $\geq$ 40dB(Narrow)
Modulation Distortion	$\leq$ 3%

Receiver	TR-800
Sensitivity (12dB SINAD)	<0.3 $\mu$ V
Selectivity	$\geq$ 80dB (wide) $\geq$ 70dB (narrow)
Intermodulation	$\geq$ 75dB (wide) $\geq$ 65dB (narrow)
Spurious Response Rejection	$\geq$ 75dB (wide) $\geq$ 65dB (narrow)
S/N	$\geq$ 45dB (wide) $\geq$ 40dB (narrow)
Audio Power Output	5W (Internal) 12W (External @ 4 $\Omega$ )
Audio Distortion	$\leq$ 3% (3W) $\leq$ 10% (5W)

Duplex Operation	TR-800
Receiver Desensitization	$\leq$ 3dB
Receiver Spurious Rejection	$\geq$ 67dB

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



ISO9001:2000 Certificate NO.FM 61540



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# HYT

## Conventional Repeater

# TR-800

### Professional Base Station / Repeater



- Integrated Front Panel with Repeater Controller
- Powerful, Varied Speed and Thermal-controlled Fan
- Optional AC, DC Power Supply
- Sleek & Compact Desktop Design

## Repeater

### 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 quiet performance and enhanced efficiency.



### 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 power levels for your business - or combine two frequencies to create a bi-directional or crossband repeater. Sleek & Compact Desktop Design The TR-800 suits any office location, and allows convenient access for system adjustments.

### 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 real-time condition of the TR-800.



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.

## 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.

## Optional Accessories

### Duplexer

Notched duplexer lets you use a single antenna for both transmit and receive - and free tower space and feed lines.



DT01 (137-172)



DT02 (220-240)



DT03 (336-370)



DT04 (360-470)



Handheld Microphone 3000HC



Desktop Microphone 30110K1

### Handheld or Desktop Microphone

Microphones including handheld and desktop models, are available for dispatch applications.

### Mobile or Omni-directional Antenna

Two types of antennas - mobile and omni-directional antenna are available for your system planning.

### Test Cable

The test cable, with low loss insertion, is ideal for system diagnosis.



# TR-800