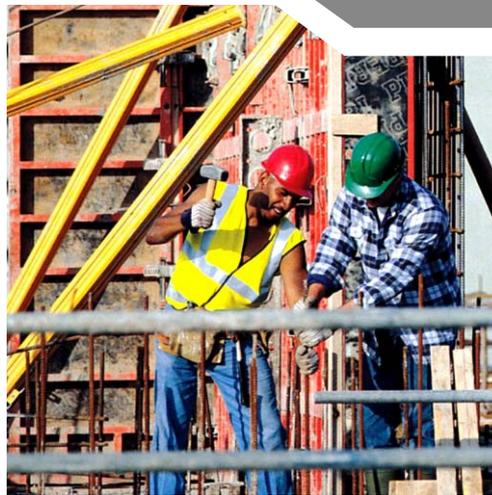


The advanced provider of professional wireless communication



# TR-800

## Conventional Base Station / Repeater



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



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.

# TR-800

## ***Conventional Base Station / Repeater***

### **Exceptional Benefits**

#### **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.

#### **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.

#### **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.

#### **Optional AC, DC Power Supply**

The TR-800 provides a wide range of AC mains input to accommodate local standard.

#### **Floating Charge**

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

## General

Frequency Range*(MHz)	VHF: 136-174 UHF: 350-400 400-470 450-512	
Channel Capacity	512	
Channel Spacing (KHz)	12.5/ 25	
Operating Voltage	13.6 V DC $\pm$ 15% / 88-264V AC 50/60Hz	
Duty cycle	Continuous	
Current Drain	Standby	<1.8A
	Receive	<2.5A
	Transmit	<13A
Frequency Stability	$\pm$ 2ppm @ -30 $^{\circ}$ C~+60 $^{\circ}$ C	
Operating Temperature (°C)	-30~+60	
Antenna Impedance ( $\Omega$ )	50	
Dimensions (L×W×H) (mm)	310×190×362	
Weight (kg)	11	
LED Indicators	Battery On, Tx, Rx, RPT, OPT, Setup	
Antenna connector	Type-Nx2(50 $\Omega$ )	

## Transmitter

RF Power Output	25W/50W (VHF) 25W/45W (UHF)
Modulation	8K5 $\Phi$ F3E / 16K $\Phi$ F3E
Radiated spurious emission(dB)	70dB
FM Noise	$\geq$ 45dB(Wide) $\geq$ 40dB(Narrow)
Modulation Distortion	$\leq$ 3%
Modulation limiting	$\pm$ 2.5@12.5KHz; $\pm$ 5.0@25KHz

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

## Receiver

Sensitivity ( 12dB SINAD )	<0.25uV
Selectivity	$\geq$ 90dB (wide) $\geq$ 80dB (narrow)
Intermodulation	$\geq$ 85dB
Spurious Response Rejection	$\geq$ 75dB(wide) $\geq$ 65dB (narrow)
S/N(Signal-to-noise ratio)	$\geq$ 45dB (wide) $\geq$ 40dB (narrow)
Rated Audio Power Output	6W (Internal) 12W (External@ 4 $\Omega$ )
Rated Audio Distortion	$\leq$ 3% (3W) $\leq$ 10% (5W)

## Duplex Operation

Receiver Desensitization	$\leq$ 3dB
Receiver Spurious Rejection	$\geq$ 67dB

\*Radio Dependent, Crossband Model is Available.



ISO9001:2000 Certificate NO:FM 61540



<http://www.hyt.cn>

SHENZHEN HYT SCIENCE & TECHNOLOGY CO., LTD.

HYT<sup>®</sup> is the registered trademark of Shenzhen HYT Science & Technology Co., Ltd.

© 2008 HYT, Co., Ltd. All Rights Reserved.

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.



The China Open 2008 Official Professional Wireless Communication Equipment

Your Local Dealer



## 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 bi-directional repeater mode through configuration of the front panel and internal switches.

### Selectable Power output (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.

## Recommended Applications

- Manufacturing
- Property management
- Construction
- Retail
- Hospitality
- Warehousing

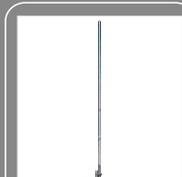
## Accessories

### Standard Accessories

AC Power Cable (EUplug) PWC03  
DC Power Cable PWC04

Duplexer Support Kit BRK05  
DC Fuse POA10  
AC Fuse POA11

### Optional Accessories



UHF/VHF Omni-directional Antenna



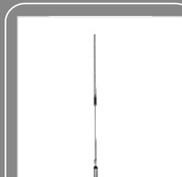
Desktop Microphone SM10R1



Programming Cable Kit (COM port) PC21



Palm Microphone SM07R2



UHF/VHF Mobile Antenna



Duplexer DT01 (Freq. Range: 137-172MHz, Tx/Rx Split: 4-15MHz)



Duplexer DT02 (Freq. Range: 336-370MHz, Tx/Rx Split: 5-20MHz)



Duplexer DT03 (Freq. Range: 380-470MHz, Tx/Rx Split: 5-20MHz)



DT06 (Freq. Range: 130-176MHz, Tx/Rx Split: 4.5~13MHz)



DT08 (Freq. Range: 350-390MHz, Tx/Rx Split: 5-10MHz)



DT07 (Freq. Range: 400-480MHz, Tx/Rx Split: 5-10MHz)

