

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% / 88~264V 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	\pm 2ppm @ -25 $^{\circ}$ C ~+60 $^{\circ}$ C
Operating Temperature	-25 $^{\circ}$ C ~ +60 $^{\circ}$ C
Antenna Impedance	50 Ω
Dimensions (L×W×H)	310mm × 190mm × 362mm
weight	11kg
LED Indicators	Battery On, Tx, Rx, RPT, OPT, Setup

Transmitter	TR-800
RF Power Output (Conducted)	25W / 50W
Modulation	8K5 ϕ F3E / 16K ϕ F3E
Spurious and Harmonics	\leq -36dBm (< 1GHz)
FM Noise	\geq 45dB(Wide) \geq 40dB(Narrow)
Modulation Distortion	\leq 3%

Receiver	TR-800
Sensitivity (12dB SINAD)	<0.35uV
Selectivity	\geq 70dB (wide) \geq 60dB (narrow)
Intermodulation	\geq 70dB
Spurious Response Rejection	\geq 75dB
S/N	\geq 45dB (wide) \geq 40dB (narrow)
Rated Audio Power Output	5W (Internal) 12W (External @ 4 Ω)
Rated 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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2107001A

HYT

Conventional Repeater

TR-800

Professional Base Station / Repeater



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.



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.



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.

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)



DT01 (157MHz-172MHz)



DT02 (220MHz-240MHz)



DT03 (336MHz-370MHz)

Palm or Desktop Microphone

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



DT04 (380MHz-470MHz)



Palm Microphone SM07R2



Desktop Microphone SM10R1

Mobile or Omni-directional Antenna

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



Omni directional
VHF Bandwidth 8MHz
UHF Bandwidth 14MHz



Omni directional
VHF Bandwidth 8MHz
UHF Bandwidth 14MHz



Mobile Antenna
VHF Bandwidth 4MHz
UHF Bandwidth 15MHz



Mobile Antenna
VHF Bandwidth 4MHz
UHF Bandwidth 15MHz

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.

Adjustable 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.

TR-800