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

Applicable MIL-STD	810C Methods	810C Procedures	810D Methods	810D Procedures	810E Methods	810E Procedures	810F Methods	810F 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

General

Frequency Range*(MHz)		VHF: 136-174 UHF: 400-470 450-512
Channel Capacity		512
Channel Spacing (KHz)		12.5/ 25
Operating Voltage		13.6 V DC ± 15% / 88-264V AC 50/60Hz
Duty cycle		100% Continuous (5/10/25W) / 50% Intermittent (45/50W)
Current Drain	Standby	<1.8A
	Receive	<2.5A
	Transmit	<13A
Frequency Stability		±2ppm @ -22° ~ 140°
Operating Temperature (F°)		-22° ~ 140°
Antenna Impedance (Ω)		50
Dimensions (L×W×H) (Inches)		12.20 in. x 7.48 in. x 14.25 in.
Weight (lbs.)		24.25 lbs.
LED Indicators		Battery On, Tx, Rx, RPT, OPT, Setup

Transmitter

RF Power Output	25W/50W (VHF) 25W/45W (UHF)
Modulation	8K5ΦF3E / 16KΦF3E
Spurious and Harmonics	≤-36dBm (< 1GHz) ≤-30dBm (≥1GHz)
FM Noise	≥45dB(Wide) ≥40dB(Narrow)
Modulation Distortion	≤3%

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

Receiver

Sensitivity（12dB SINAD）	＜0.35uV
Selectivity	≥70dB (wide) ≥60dB (narrow)
Intermodulation	≥70dB
Spurious Response Rejection	≥75dB
S/N	≥45dB (wide) ≥40dB (narrow)
Rated Audio Power Output	5W (Internal) 13W (External @ 4Ω)
Rated Audio Distortion	≤3%（3W） ≤10%（5W）

Duplex Operation

Receiver Desensitization	≤3dB
Receiver Spurious Rejection	≥67dB
*Radio Dependent, Crossband Model is Available.	

FCC Approved Bands: (136-174MHz)
FCC ID Number R74TR-800V

FCC Approved Bands: (400-470MHz)
FCC ID Number R74TR-800U1

FCC Approved Bands: (450-512MHz)
FCC ID Number R74TR-800U2

ISO9001:2000 *Certificate* NO:**FM** 61540

HYT America, Inc.
320 International Parkway, Sunrise, Florida 33325
Tel: 800-845-1230 Fax: 954-846-1672
Web: http://www.hytamerica.com

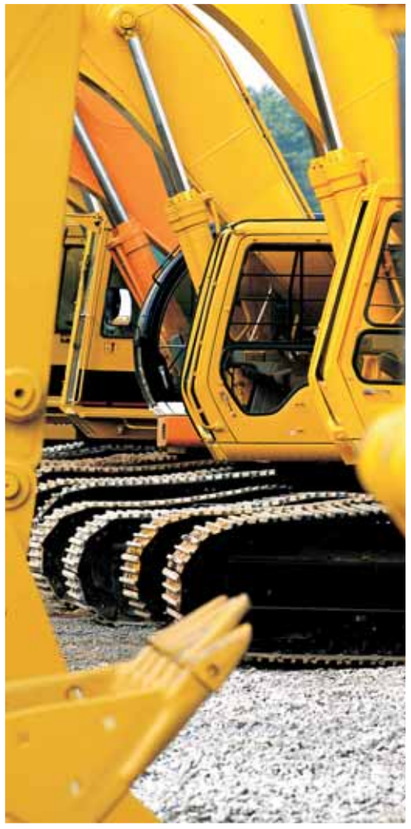
Your Local Dealer

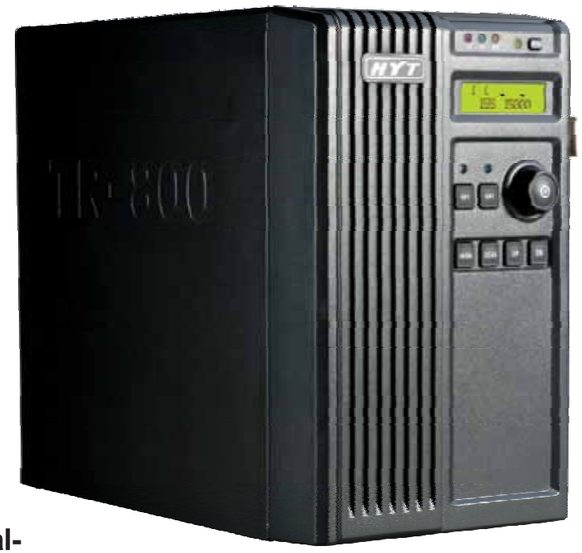
The advanced provider of professional wireless communication

HYT AMERICA, INC.

TR-800

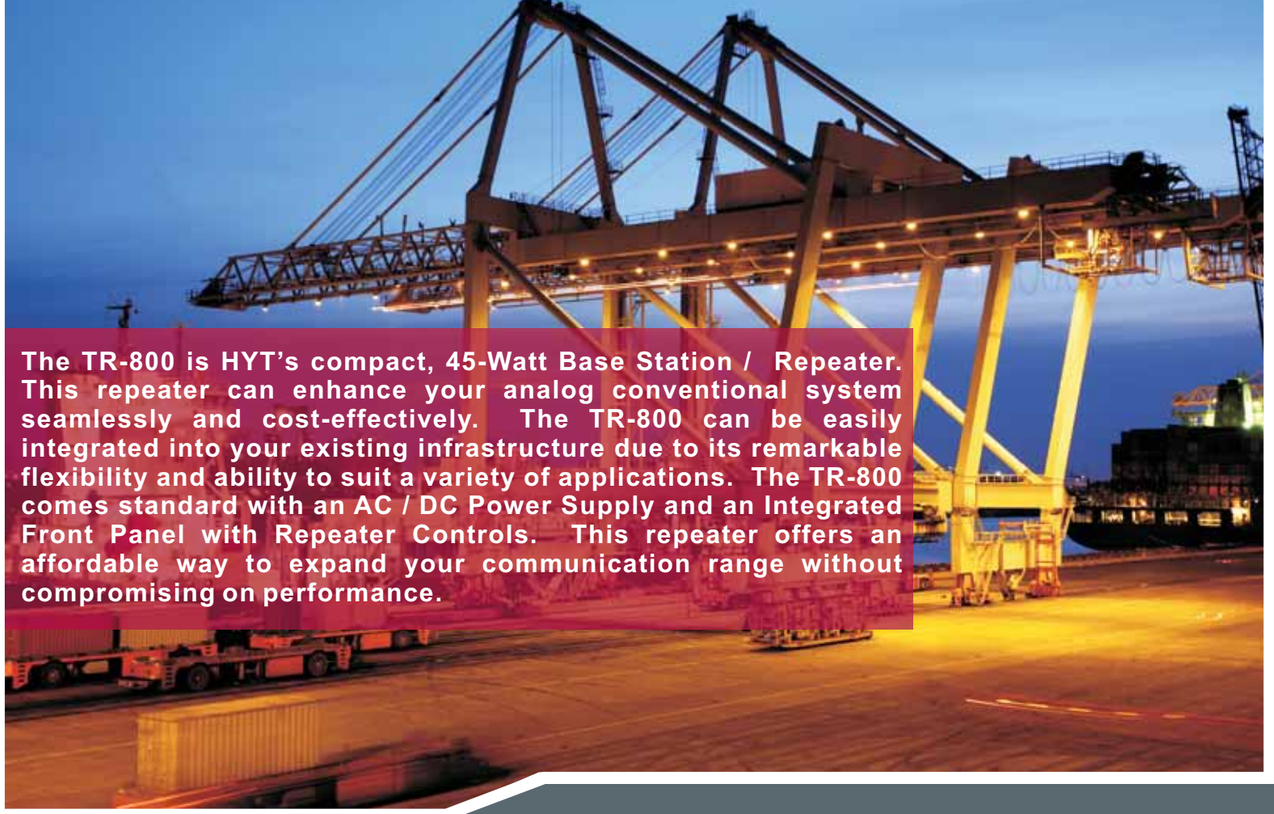
Conventional
Base Station / Repeater





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

www.hytamerica.com



The TR-800 is HYT's compact, 45-Watt Base Station / Repeater. This repeater can enhance your analog conventional system seamlessly and cost-effectively. The TR-800 can be easily integrated into your existing infrastructure due to its remarkable flexibility and ability to suit a variety of applications. The TR-800 comes standard with an AC / DC Power Supply and an Integrated Front Panel with Repeater Controls. This repeater offers an affordable way to expand your communication range without compromising on performance.

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.

*External Microphone Sold Separately

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.

AC, DC Power Supply

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

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.

Floating Charge

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

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 Stores
- Hotels
- Hospitals
- Warehousing
- Mining
- Education

Accessories

Standard Accessories

AC power cable (EU plug) PWC03 — DC Fuse POA10
DC power cable PWC04 — AC Fuse POA11

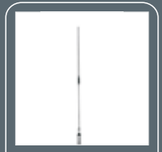
Optional Accessories

Palm microphone SM07R2

Desktop microphone SM10R1

External duplexer available see below

Omni directional



Mobile Antenna

- External Duplexer (UHF) DCL-4533
- External Duplexer (VHF) DHL-1533
- Programming cable kit(COM port) PC21