

RadioCom

Technical Data Sheet

Innovating the Future of Global Communications

TR-800 & TR-825

UHF 2-Audio Channel Wireless Synthesized Transceiver & UHF 2-Audio Channel Binaural Wireless Synthesized Transceiver



The RTS RadioCom TR-800 and TR-825 are 2-audio channel UHF frequency-agile wireless beltpacks for use with the BTR-800. The TR-825 is a dual-listen beltpack, allowing you to listen to tech in one ear and production in the other. Individual volume controls also allow for easy level adjustment. The TR-800 and the TR-825 both have an all metal cast magnesium case, an LCD-based user interface, stage announce activation, **WTA** (Wireless Talk Around), enhanced ClearScan, detachable antennas and an auto-sensing headset connector that automatically switches between electret and dynamic headset mics.

Features

On/Off & Volume Control

Turns the beltpack power on and controls headset volume.

Wireless Talk Around (WTA)

When pressed, the user's audio is disconnected from the wired intercom, auxiliary input/output and the base station's local headset. Other beltpack users, on that audio channel, can hear the user as normal.

Stage Announce

When pressed, the user's audio is routed to the SA (Stage Announce) connector on the back of the base station. The user also loses their sidetone as an indication that stage announce is activated. The other wireless beltpacks and wired users do not hear the user's audio. The button is nonlatching and activates the nearby red LED.

Audio Channel Select Button

Allows user to select either audio channel A or B.

Bat/Overmod Light (BAT/OM)

Light flashes once when unit is turned on if the battery is good. If the light stays on, battery is low. If the light does not flash, battery is dead. A normal microphone gain setting causes the LED to flash at the beginning of most words at normal speech levels. If the gain is too high, the LED is red during the complete word at normal speech levels.

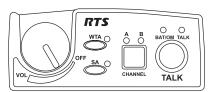
Talk Light

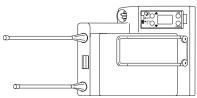
LED is on when the talk button, SA or WTA is active.

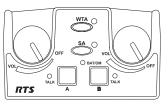
Talk Button

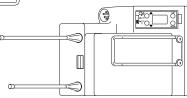
The TALK LED, turns red when enabled. A quick press and release latches the talk function, unless latching has been disabled. Holding the button for over half a second causes the audio path to be enabled only for as long as the button is held. If the talk function is latched on, pressing the talk button again turns it off.

Line Drawings









Specifications

Overall	RF Frequency Stability:
RF Frequency Range:TX Range (North America)	Modulation Limiter: Peak-Responding Compressor
572 - 608 MHz in 18 MHz TX bands 653 - 663 MHz for 3 band¹	Radiated Harmonics & Spurious: Complies with FCC specifications
470 - 488 MHz for 88 band TX Range (Outside North America)	Receiver Type:Dual Conversion Super heterodyne, Synthesized, FM
572 - 608, 614 - 722 MHz in 18 MHz TX bands RX Range	RF Sensitivity:<0.7µV for 12dB SINAD
482-608 MHz in 18 MHz RX bands	Squelch Threshold:20dB SINAD (About 1.0µV)
Power Requirements: 6 AA Cells Alkaline (NiMH optional)	IF Selectivity:
TR-800 Current Draw:140mA (Push-to-Talk, Talk On)	Image Rejection:70dB or better
TR-825 Current Draw:	Squelch Quieting: 90dB
A and B Talk On)	RF Frequency Stability:
Temperature Range:4°F to 130°F (-20°C to 55°C)	Distortion:<1% at full deviation
TX Antenna:1/4Wave (supplied)	Product Dimensions/Weight
Screw type, Replaceable	TR-800:
RX Antenna:	(9.5cm x 12.8cm x 4.2cm)
Screw type, Replaceable	16oz (454g) with alkaline batteries
Frequency Response:	TR-825:
Microphone Input Sensitivity:7mV	21oz (595g) with alkaline batteries
Local Headset Output:40mW output into 600W (1% distortion)	Shipping Dimensions/Weight
Transmitter Type:	TR-800:7" W x 4" H x 14" D
Transmit Power:50mW Max. (Auto-power reduction)	(17.78cm x 10.16cm x 35.56cm)
20 mW Max in US 3 Band,	16oz (454g) with alkaline batteries
653-663 MHz (auto-power reduction)	TR-825:
Modulation Type: FM	(17.78cm x 10.16cm x 35.56cm) 21oz (595g) with alkaline batteries
Deviation: 40kHz	2 To 2 (000g) with diskaline batteries
This band is limited to 10 MHz	

NOTICE:

This wireless microphone system can be configured for both FCC Part 15 (unlicensed) and FCC Part74 (licensed) operation. When shipped from the factory, this wireless microphone system is configured for unlicensed operation, and will operate at a power level not to exceed 50 milliWatts, which meets FCC Part 15 requirements. If unlicensed users operate this device in excess of 50 milliWatts, harmful interference may result and the unlicensed user will be subject to substantial monetary forfeitures and other FCC sanctions. The wireless microphone system may be operated by holders of a valid FCC license in the Low Power Auxiliary Radio Service under Part 74 of FCC Rules, at power levels between 50 milliWatts and 250 milliWatts.

CONSUMER ALERT

Most users do not need a license to operate this wireless microphone system Nevertheless, operating this microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliWatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change.

For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at www.fcc.gov/cgb/wireless microphones.

Order Information

TR-800 • UHF 2-Channel Wireless Synthesized Transceiver with A4M headset connector
TR-800-RTS • UHF 2-Channel Wireless Synthesized Transceiver with A4F headset connector
TR-800-RTS 5-Pin • UHF 2-Channel Wireless Synthesized Transceiver with A5F headset connector
TR-825 • UHF 2-Channel Binaural Wireless Synthesized Transceiver with A4M headset connector
TR-825-RTS • UHF 2-Channel Binaural Wireless Synthesized Transceiver with A4F headset connector
TR-825-RTS 5-Pin • UHF 2-Channel Binaural Wireless Synthesized Transceiver with A4F headset connector

For ordering information, contact your regional sales representative at:

http://rtsintercoms.com/us/intercom/contact

The specification information is preliminary and is subject to change without notification.

Brand names mentioned are the property of their respective companies.

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