

## 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 beltacks for use with the BTR-800. The TR-825 is a dual-listen beltack, 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 beltack 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 beltack 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 beltacks 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.

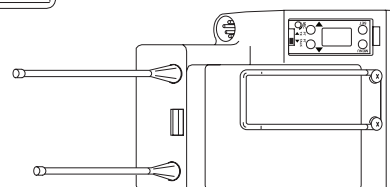
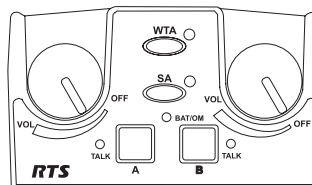
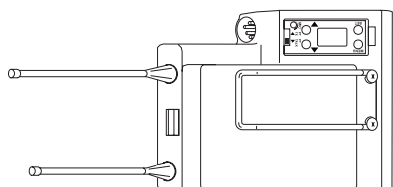
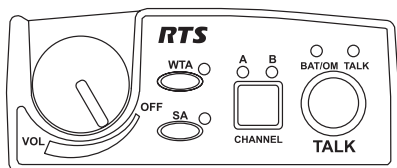
### Talk Light

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 Range: ..... TX Range (North America)  
 572 - 608 MHz in 18 MHz TX bands  
 653 - 663 MHz for 3 band<sup>1</sup>  
 470 - 488 MHz for 88 band  
 TX Range (Outside North America)  
 572 - 608, 614 - 722 MHz in 18 MHz TX bands  
 RX Range  
 482-608 MHz in 18 MHz RX bands

Power Requirements: ..... 6 AA Cells Alkaline (NiMH optional)

TR-800 Current Draw: ..... 140mA (Push-to-Talk, Talk On)

TR-825 Current Draw: ..... 190mA (Push-to-Talk  
 A and B Talk On)

Temperature Range: ..... -4°F to 130°F (-20°C to 55°C)

TX Antenna: ..... 1/4Wave (supplied)  
 Screw type, Replaceable

RX Antenna: ..... 1/4 Wave (supplied)  
 Screw type, Replaceable

Frequency Response: ..... 300Hz–8kHz

Microphone Input Sensitivity: ..... 7mV

Local Headset Output: ..... 40mW output into 600W  
 (1% distortion)

Transmitter Type: ..... Synthesized

Transmit Power: ..... 50mW Max. (Auto-power reduction)  
 20 mW Max in US 3 Band,  
 653-663 MHz (auto-power reduction)

Modulation Type: ..... FM

Deviation: ..... 40kHz

1 This band is limited to 10 MHz

### NOTICE:

This wireless microphone system can be configured for both FCC Part 15 (unlicensed) and FCC Part 74 (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](http://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 5-Pin • UHF 2-Channel Binaural Wireless Synthesized Transceiver with A5M 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 A5F 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.

RF Frequency Stability: ..... 0.005%

Modulation Limiter: ..... Peak-Responding Compressor

Radiated Harmonics  
 & Spurious: ..... Complies with FCC specifications

Receiver Type: ..... Dual Conversion  
 Super heterodyne, Synthesized, FM

RF Sensitivity: ..... <0.7µV for 12dB SINAD

Squelch Threshold: ..... 20dB SINAD (About 1.0µV)

IF Selectivity: ..... 3dB at 230kHz

Image Rejection: ..... 70dB or better

Squelch Quieting: ..... 90dB

RF Frequency Stability: ..... 0.005%

Distortion: ..... <1% at full deviation

## Product Dimensions/Weight

TR-800: ..... 3.75" W x 5.05" H x 1.65" D  
 (9.5cm x 12.8cm x 4.2cm)  
 16oz (454g) with alkaline batteries

TR-825: ..... 3.75" W x 5.35" H x 2.02" D  
 (9.5cm x 13.5cm x 5.1cm)  
 21oz (595g) with alkaline batteries

## Shipping Dimensions/Weight

TR-800: ..... 7" W x 4" H x 14" D  
 (17.78cm x 10.16cm x 35.56cm)  
 16oz (454g) with alkaline batteries

TR-825: ..... 7" W x 4" H x 14" D  
 (17.78cm x 10.16cm x 35.56cm)  
 21oz (595g) with alkaline batteries