

## 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.

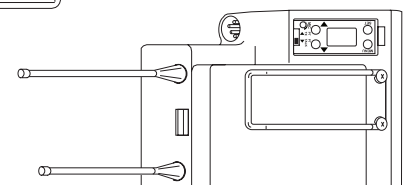
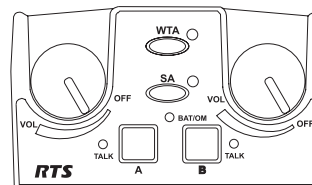
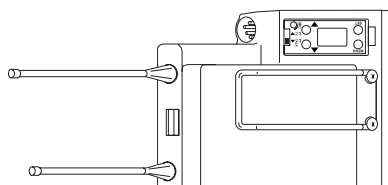
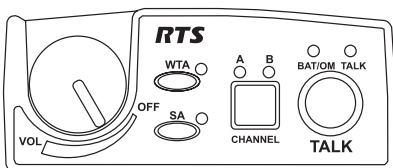
### Talk Light

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 Range: ..... 470–608MHz, 614–698MHz (614–722MHz, Europe) in 18MHz TX and RX bands	Receiver Type:..... Dual Conversion Super heterodyne, Synthesized, FM 712 channels
Power Requirements: .... 6 AA Cells Alkaline (NiMH optional)	RF Sensitivity:..... <0.7µV for 12dB SINAD
TR-800 Current Draw: ..... 140mA (Push-to-Talk, Talk On)	Squelch Threshold:..... 20dB SINAD (About 1.0µV)
TR-825 Current Draw: ..... 190mA (Push-to-Talk A and B Talk On)	IF Selectivity: ..... 3dB at 230kHz
Temperature Range:..... -4°F to 130°F (-20°C to 55°C)	Image Rejection:..... 70dB or better
TX Antenna:..... 1/4Wave (supplied) Screw type, Replaceable	Squelch Quieting: ..... 90dB
RX Antenna: ..... 1/4 Wave (supplied) Screw type, Replaceable	RF Frequency Stability: ..... 0.005%
Frequency Response: ..... 300Hz–8kHz	Distortion: ..... <1% at full deviation
Microphone Input Sensitivity:..... 7mV	<b>Product Dimensions/Weight</b>
Local Headset Output:..... 40mW output into 600W (1% distortion)	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
Transmitter Type:..... Synthesized, 712 channels	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
Transmit Power: ..... 50mW Max. (Auto-power reduction)	<b>Shipping Dimensions/Weight</b>
Modulation Type: ..... FM	TR-800:..... 7" W x 4" H x 14" D (17.78cm x 10.16cm x 35.56cm) 16oz (454g) with alkaline batteries
Deviation:..... 40kHz (35kHz Europe)	TR-825:..... 7"W x 4"H x 14"D (17.78cm x 10.16cm x 35.56cm) 21oz (595g) with alkaline batteries
RF Frequency Stability: ..... 0.005%	
Modulation Limiter: ..... Peak-Responding Compressor	
Radiated Harmonics & Spurious: ..... Complies with FCC specifications	

### 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](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.