TR-800 & TR-825

UHF Two-Channel Wireless Synthesized Transceiver &

Two-Channel Binaural Wireless Synthesized Transceiver

The Telex® RadioCom™ TR-800 and TR-825 are Two-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 graphical user interface, stage announce activation, wireless talk around (ISO) activation, 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 head set 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 (SA)
When pressed, the user's audio is routed to the 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 non-latching 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 will flash 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 will cause the LED to flash at the beginning of most words at normal speech levels. If the gain is too high, the LED will be red during the complete word at normal speech levels.
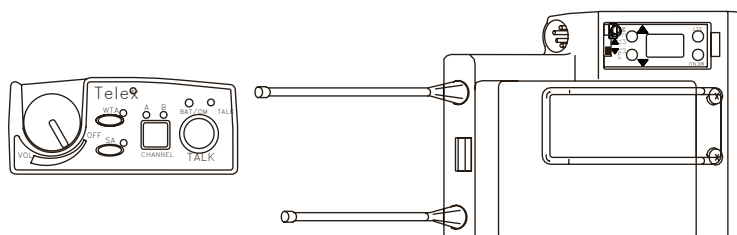
Talk Light
LED is on when the talk button, SA or WTA is active.
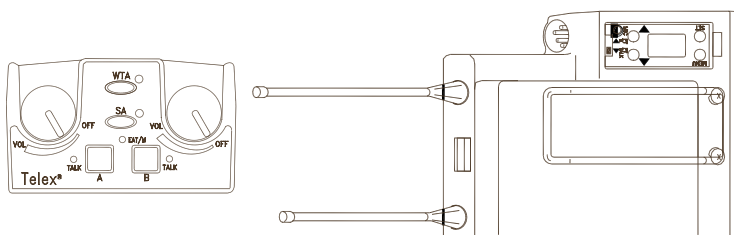
Talk Button
Press to enable the audio path from the local headset microphone. The "TALK" LED, #6, will turn red when enabled. A quick press and release latches the talk function, unless latching has been disabled. Holding the button for over ½ a second will cause the audio path to be enabled only for as long as the button is held. If the talk function is latched on, pressing the talk button again will turn it off.

Line Drawing

TR-800

TR-825

TR-800 & TR-825 Specifications

Overall

RF Frequency Range
470 - 608 MHz, 614 - 740 MHz in 18 MHz TX and RX bands

Power Requirements
6 "AA" Cells Alkaline (NiMH optional)

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

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

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

TX Antenna
¼ Wave (supplied), Screw type, Replaceable

RX Antenna
¼ Wave (supplied), Screw type, Replaceable

TR-800 FCC ID
B5DM518 (TX 470-608 MHz),
B5DM515 (TX 614-746 MHz)

TR-825 FCC ID
B5DM517

Frequency Response
300 Hz-8 kHz

Microphone Input Sensitivity
7 mV

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

Transmitter

Type
Synthesized, 712 channels

Transmit Power
50 mW Max. (Auto-power reduction)

Modulation Type
FM

Deviation
40 kHz (35 kHz Europe)

RF Frequency Stability
0.005%

Modulation Limiter
Peak-Responding Compressor

Radiated Harmonics & Spurious
Exceeds FCC specifications

Contact Information

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Form Number: LIT000275000 Rev A
Date: August 2008

Receiver

Type
Dual Conversion Super heterodyne, Synthesized, FM, 712 channels

RF Sensitivity
<0.7 µV for 12 dB SINAD

Squelch Threshold
20 dB SINAD (About 1.0 µ V)

IF Selectivity
3 dB at 230 kHz

Image Rejection
70 dB or better

Squelch Quieting
90 dB

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)
16 oz (454 g) with alkaline batteries

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

Shipping Dimensions/Weight

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

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

Ordering Information

TR-800: UHF Two-Channel Wireless Synthesized Transceiver with A4M headset connector • Catalog Number: 71306XX

TR-800-RTS: UHF Two-Channel Wireless Synthesized Transceiver with A4F headset connector • Catalog Number: 71306XXR

TR-800-RTS 5-Pin: UHF Two-Channel Wireless Synthesized Transceiver • Catalog Number: 71306XXR5

TR-825: UHF Two-Channel Binaural Wireless Synthesized Transceiver with A4M headset connector • Catalog Number: 71381XX

TR-825 5-Pin: UHF Two-Channel Binaural Wireless Synthesized Transceiver with A5M headset connector • Catalog Number: 71381XX5

TR-825-RTS: UHF Two-Channel Binaural Wireless Synthesized Transceiver with A4F headset connector• Catalog Number: 71381XXR

TR-825-RTS 5-Pin: UHF Two-Channel Binaural Wireless Synthesized Transceiver with A5F headset connector• Catalog Number: 71381XXR5