TELEX RadioCom Wireless that Works



BTR-700 & TR-700

UHF Single Channel Wireless Intercom System

The Telex RadioCom BTR-700 UHF-synthesized wireless intercom system offers the ultimate in reliable, high performance, high fidelity full duplex communications. The BTR-700 system includes the BTR-700 frequency-agile base station, working with up to four TR-700 frequency-agile beltpacks. The BTR-700 base station provides full-duplex communications with the beltpacks. The BTR-700 system is perfectly suited for stand-alone operation and can interface with Telex Audiocom, RTS Two-Wire Intercom, Clear-Com as well as RTS Digital Matrix Intercom systems and other four-wire communications systems. In addition to the external intercom systems interfaces listed above, the system provides connections for auxiliary balanced audio input and output. The Telex RadioCom BTR series has been designed for reliable, efficient operation. Operating in the 518 to 868 MHz range, the units operate reliably at line-of-sight distances of 1,000 feet. With available antenna systems from Telex RadioCom, the effective operating range can be extended. The TR-700 high efficiency beltpacks provide 12-14 hours of uninterrupted operation using standard alkaline batteries.

Features

UHF Operation

Frequency agile base station & beltpacks.

Backlit Base Station LCD

ClearScan Function on Base Station & Beltpack

Full Duplex (Simultaneous Talk & Listen) Operation

Compatible with Audiocom (Telex RadioCom), RTS⁻TW, RTS Matrix, Clear-Com, and other wired intercom types.

Beltpack units contained in a weather and shock resistant die cast magnesium case.

Convenient IEC power connector on the base station.

Base station comes with rack ears for easy rack mounting.

Beltpack batteries last up to 12-14 hours.

Auto-sensing headset connector that automatically switches between electret and dynamic headset mics.

Line Drawing











BTR-700 & TR-700 Specifications

Overall

RF Frequency Range 518 - 608 MHz, 614 - 740 MHz, 796 - 868 MHz in 18 MHz TX and RX bands **BTR-700 Power Requirements** 100-240 VAC, 50-60 Hz, IEC receptacle **TR-700 Power Requirements** 6 "AA" Cells Alkaline (NiMH optional) Temperature Range -4°F to 130°F (-20°C to 55°C) **TX** Antenna BTR-700: 1/2 Wave (supplied), TNC Male Connector TR-700: 1/4 Wave (supplied), Screw type, Replaceable **RX** Antenna BTR-700: 1/2 Wave (supplied), TNC Male Connector TR-700: 1/4 Wave (supplied), Screw type, Replaceable FCC ID BTR-700 (B5DM516), TR-700 (B5DM515) **Frequency Response** 300 Hz-8 kHz 4-Wire Input and Output Level Adjustable (2 Vrms typical) Telex RadioCom Intercom Input/Output Level Adjustable (1 Vrms typical), Line Impedance 300Ω **RTS** Intercom Input/Output Level Adjustable (0.775 Vrms typical), Line Impedance 200Ω **Clear-Com Intercom** Input/Output Level Adjustable (1 Vrms typical), Line Impedance 200Ω Auxiliary Input Adjustable (2 Vrms typical) Auxiliary Output Adjustable (2 Vrms typical into 600Ω) **Microphone Input Sensitivity** BTR-700 (9 mV), TR-700 (7 mV) Local Headset Output 40 mW output into 600Ω (1% Distortion) **TR-700 Current Draw** 140 mA (Push-to-Talk, Talk On)

Transmitter

Туре Synthesized Transmitter, 712 channels **Transmit Power** BTR-700 (50 mW Max. (High), 5 mW (Normal), TR-700 (50 mW Max. (Auto-power reduction)) **Modulation Type** FM Deviation 40 kHz (35 kHz Europe) **RF Frequency Stability** 0.005%

Contact Information

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Form Number: LIT000269000 Rev A Date: August 2008

Modulation Limiter

Peak-Responding Compressor Radiated Harmonics & Spurious: Exceeds FCC Specifications

Receiver Type

Dual Conversion Superheterodyne, four Independent Synthesized IFs, FM, 712 channels each **RF Sensitivity** BTR-700: <0.8 µV for 12 dB SINAD TR-700: <0.7 µV for 12 dB SINAD **Squelch Threshold** 20 dB SINAD **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

BTR-700 19"W x 1.72"H x 14"D (48.3cm x 4.4cm x 35.6cm), 7 lbs 2 oz (3.24 kg) **TR-700**

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

Shipping Dimensions/Weight

BTR-700 17"W x 5"H x 23"D (43.2cm x 12.7cm x 58.4cm),10 lbs 9 oz (4.79 kg) TR-700 7"W x 14"H x 4"D (17.78cm x 35.56cm x 10.16cm), 16 oz (454 g) with alkaline batteries

Ordering Information

BTR-700: UHF Single Channel Wireless Synthesized Base Station with A4M headset connector • Catalog Number: 71303XX

BTR-700-RTS: UHF Single Channel Wireless Synthesized Base Station with A4F headset connector • Catalog Number: 71303XXR

BTR-700-RTS 5-Pin: UHF Single Channel Wireless Synthesized Base Station with A5F headset connector Catalog Number: 71303XXR5

TR-700: UHF Single Channel Wireless Synthesized Transceiver with A4M headset connector • Catalog Number: 71304XX

TR-700-RTS: UHF Single Channel Wireless Synthesized Transceiver with A4F headset connector Catalog Number: 71304XXR

TR-700-RTS 5-Pin: UHF Single Channel Wireless Synthesized Transceiver with A5F headset connector Catalog Number: 71304XXR5

This specifications information is preliminary and is subject to change without notification. Brand names mentioned are the property of their respective companies.