



INNOVATIVE INDUSTRIAL SOLUTIONS

Unreal Innovation, Real Solutions.

BTR-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 belt packs. The BTR-700 base station provides full-duplex communications with the belt packs. 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 868MHz range, the units operate reliably at line-of-sight distances of 1,000feet. With available antenna systems from Telex® RadioCom™, the effective operating range can be extended. The TR-700 high efficiency belt packs provide 12-14 hours of uninterrupted operation using standard alkaline batteries.

UHF Operation

Frequency agile base station & belt packs.

Backlit Base Station LCD

ClearScan® Function on Base Station & Belt pack

Full Duplex (Simultaneous Talk & Listen) Operation

Compatible with AudioCom® (Telex® RadioCom™), RTS® TW®, RTS® Matrix, Clear-Com®, and other wired intercom types.

Belt pack 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.

Belt pack batteries last up to 12-14 hours.

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

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SPECIFICATIONS

Overall

RF Frequency Range
518 - 608 MHz, 614 - 740 MHz, 796 - 868 MHz in 18 MHz
and RX bands
BTR-700 Power Requirements
100-240 VAC, 50-60 Hz, IEC receptacle
Temperature Range
-4°F to 130°F (-20°C to 55°C)
TX Antenna
BTR-700: ½ Wave (supplied), TNC Male Connector
RX Antenna
BTR-700: ½ Wave (supplied), TNC Male Connector
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
300?
RTS ® Intercom
Input/Output Level Adjustable (0.775 Vrms typical), Line
Impedance 200?
Clear-Com ® Intercom
Input/Output Level Adjustable (1 Vrms typical), Line Impedance
200?
Auxiliary Input
Adjustable (2 Vrms typical)
Auxiliary Output
Adjustable (2 Vrms typical into 600?)
Microphone Input Sensitivity
BTR-700 (9 mV), TR-700 (7 mV)
Local Headset Output
40 mW output into 600? (1% Distortion)

Transmitter

Type
Synthesized Transmitter, 712 channels
Transmit Power
BTR-700 (50 mW Max. (High), 5 mW (Normal)

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

Receiver

Type
Dual Conversion Superheterodyne, four Independent
Synthesized IFs, FM, 712 channels each
RF Sensitivity
BTR-700: < 0.8 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/W eight

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)

Shipping Dimensions and Wei

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)

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