



INNOVATIVE INDUSTRIAL SOLUTIONS

Unreal Innovation, Real Solutions.



BTR-800

UHF Two-Channel Wireless Synthesized Base Station

The Telex RadioCom BTR-800 UHF-synthesized wireless intercom systems offer the ultimate in reliable, high-performance, high fidelity full-duplex communications. The BTR-800 system includes the BTR-800 frequency-agile base station, working with up to four TR-800 or TR-825 frequency-agile beltpacks. The BTR-800 base station provides full-duplex communications with the beltpacks.

The BTR system incorporates two audio channel operation, permitting the beltpack operator to choose between two separate audio channels of communications, with the base station tracking the beltpack selection. This allows the user the flexibility to create a party line and a private line within the same beltpack.

The BTR-800 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, as well as wireless talk-around (WTA) and stage announce (SA) features.

The Telex RadioCom BTR series has been designed for reliable, efficient operation. Operating in the 470 to 740 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 high-efficiency beltpacks provide up to 12 hours of uninterrupted operation using standard alkaline batteries.

Frequency-Agile Base Station & Beltpacks

Backlit Base Station LCD

ClearScan Function

Full-Duplex Operation

Compatible with Audiocom, RTS TW, Matrix, Clear-Com, and other wired intercom types.

Two Channels of Intercom Audio

WTA (Wireless Talk About) Beltpack Control

SA (Stage Announce) Beltpack Control

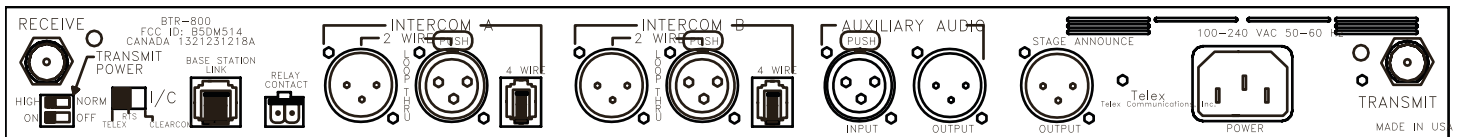
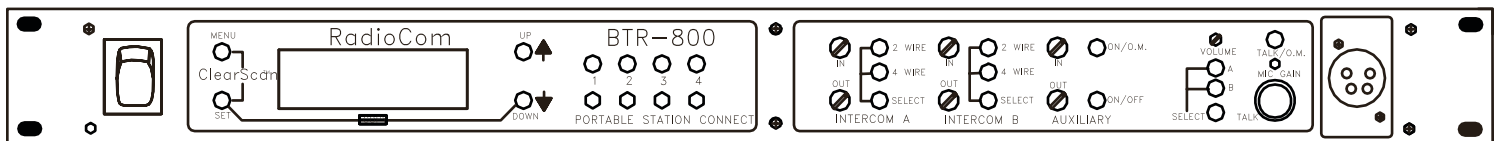
Relay contract closure on the base when the SA button is pressed

TR-825 features two audio channel binaural operation in either stereo or mono mode

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.



BTR-800 Specifications

Overall

RF Frequency Range

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

Power Requirements

100-240 VAC, 50-60 Hz, IEC receptacle

Temperature Range

-4°F to 130°F (-20°C to 55°C)

TX Antenna

½ Wave (supplied), TNC Male Connector

RX Antenna

½ Wave (supplied), TNC Male Connector

FCC ID

B5DM514

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)

Stage Announce Output

Internally Adjustable (2 Vrms typical at rated deviation into 600Ω)

Stage Announce Relay

Dry contact, rated at 1 Amp, 24V Max

Microphone Input Sensitivity

9 mV

Local Headset Output

40 mW output into 600Ω (1% Distortion)

Transmitter

Type

Two Synthesized Transmitters, 712 channels each

Transmit Power (each transmitter)

100 mW Max. (High), 10 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

<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/Weight

BTR- 800

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/Weight

BTR- 800

17"W x 5"H x 23"D (43.2cm x 12.7cm x 58.4cm),
12 lbs (5.43 kg)



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