



BTR-24
Base Station



TR-24
Beltpack



BTR-24 & TR-24

2.4 GHz Wireless Intercom

The Telex RadioCom BTR-24 and TR-24 series intercom is a full duplex (simultaneous talk and listen) wireless intercom system that offers a complete stand alone solution for 2 to 10 users utilizing the full duplex feature and an unlimited number of listen-only users. The BTR-24 system offers easy set-up, durable beltpacks, 64 bit audio encryption, easy system expansion and a 3 year warranty. The Telex RadioCom BTR-24 system operates utilizing the license free 2.4 GHz IEEE 802.11b "WiFi" standard.

The BTR-24 system incorporates the option of three audio channels that are selectable at each TR-24 beltpack. The TR-24 beltpacks also provide the user with adjustable volume control, headset microphone level and local side tone level. The TR-24 will operate with Dynamic or Electret headset microphones and has a built-in lithium ion battery pack that will provide up to 8 hours of uninterrupted operation.

Upon start-up the BTR-24 base station automatically scans and selects the best RF (radio frequency) channel for communication with a feature called ClearScan. The BTR-24 also has a built-in lithium ion battery pack that will provide up to 10 hours of uninterrupted operation or can be operated with the included wall mount AC power supply. The BTR-24 also includes rack mount hardware.

Features

License Free Operation

64 Bit Encrypted Audio

Full Duplex Operation

3 Audio Channels

Automatic RF Channel Selection via ClearScan

Independent Volume Control and Headset Mic Level Control

System Supports Up To 10 Beltpacks (Full-Duplex)

Easy Set-Up and Operation

Operates on IEEE 802.11b "WiFi" Standard

Operating Range Up To 800 ft, Line-of-Sight (Beltpack to Base Station)

Low Battery Indicators on Beltpack and Base Station

Battery Charge Indicators on Beltpack and Base Station

Rack Mount for BTR-24 Included

Independent Local Side Tone Level Control

Programmable Beltpacks for Remote Group Operation

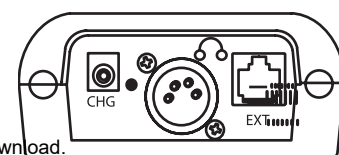
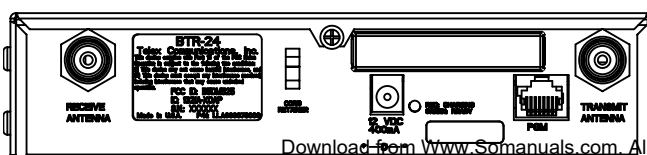
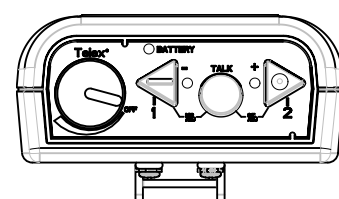
Built In Lithium-Ion Battery Packs on BTR-24 and TR-24

Line Drawing

BTR-24



TR-24



BTR-24 & TR-24 Specifications

Frequency Band of Operation

North America: 2.412-2.462 GHz

Europe: 2.412-2.472 GHz

Beltpack Headset Output

200 mW into 300 ohms (1% distortion)

Technology

2.4 GHz, IEEE 802.11b Wireless LAN Standard (WiFi)

FCC License

None Required (License Free Use)

Number of Users

2 to 10 Users per BTR-24 Base Station (Full-Duplex)

Encryption

64 Bit (DES) Encryption Key

Battery Type

Lithium Ion Rechargeable (Base Station and Beltpack)

Battery Life – BTR-24

10 Hrs (charge time 10-14 Hrs)

Battery Life – TR-24

8 Hrs (charge time 6-8 Hrs)

Frequency Response

400 Hz to 5500 Hz

Dynamic Range

>75 dB

Antenna

TR-24 Beltpack = Internal

BTR-24 Base Station = External TNC-RP

Headsets

Dynamic or Electret Microphone elements can be used with TR-24 Beltpack

Battery Status Indicators

Included on TR-24 and BTR-24

Charge Status Indicators

Included on TR-24 and BTR-24

Mic Level Adjustment

Programmable on TR-24, with Voice Prompts

Local Sidetone Adjustment

Programmable on TR-24, with Voice Prompts

Channel Indicators

TR-24 Beltpack – YES, Green LED

BTR-24 Base Station – YES, 7 Segment LED

Warranty

3 Year Warranty

Product Dimensions/Weight

BTR-24

6.00"L x 7.50"W x 1.72"H (15.24cm x 19.05cm x 4.27cm),

2 lbs 11 oz (.95 kg)

TR-24

5.25"L x 3.75"W x 1.68"H (13.34cm x 9.53cm x 4.27cm),
12 oz (.45 kg)

Shipping Dimensions/Weight

BTR-24 (Packaged, Includes rack mounts, antennas and power supply)

18.20"L x 11.50"W x 3.90"H (46.23cm x 29.21cm x

9.91cm), 5 lbs 7 oz (2.59 kg)

TR-24 (Packaged, Includes power supply)

13.25"L x 9"W x 3.60"H (33.66cm x 22.86cm x 9.14cm),
1 lb 10 oz (.49 kg)

SYS-243 (Packaged system, 3 TR-24's, 1 BTR-24, antennas, antennas and power supply)

25.30"L x 21"W x 9.30"H (64.26cm x 53.34cm x 23.62cm), 22 lbs 3 oz (10.12 kg)

Ordering Information

BTR-24 2.4 GHz multi-channel wireless base station access point

Catalog Number: PRD000066000

TR-24 2.4 GHz multi-channel wireless beltpack with A4M headset connector

Catalog Number: PRD000065000

SY3-243 2.4 GHz multi-channel wireless beltpack and base station system

Catalog Number: SYS000007000

PH-100 Single Sided Headset with A4F connector

Catalog Number: 301581007

PH-200 Dual Sided Headset with A4F connector

Catalog Number: 301581002

HR-1 Single Sided Headset with A4F connector

Catalog Number: 300534007

HR-2 Dual Sided Headset with A4F connector

Catalog Number: 300534000

PH-1 Single Sided Headset with A4F connector

Catalog Number: 64438100

PH-2 Dual Sided Headset with A4F connector

Catalog Number: 64437100

RA-3 Omni Antenna (3 dB), with TNC reverse polarity connector

Catalog Number: 302054003

RA-7 Omni Antenna (7 dB), with TNC reverse polarity connector

Catalog Number: 302054004

RA-5 Omni Antenna (5 dB), with TNC reverse polarity connector

Catalog Number: 302054005

FP-11 Flat Panel Directional Antenna (11 dB) with TNC reverse polarity connector

Catalog Number: 302054006

RPT-3 3FT Coax with TNC reverse polarity connector

Catalog Number: 302054007

RPT-10 10ft Coax with TNC reverse polarity connector

Catalog Number: 302054008

TNC-RP TNC reverse polarity coupler (jack-to-jack)

Catalog Number: 302054009

CC-24 Carry case for BTR-24 system

Catalog Number: 302054010

LG-Y Headset Y cable for Telex Legacy

Catalog Number: 302054012

LG-PS US power supply for BTR-24 and TR-24

Catalog Number: 532091000

ANT-FP Dual Diversity, Flat Patch Antenna with Coax

Catalog Number: 302054001

ANT-FPM Tilt and Swivel Antenna Mount Bracket

Catalog Number: 302054000

XOB Adjustable Nylon Belt

Catalog Number: 302054002

Telex Legacy Systems do not include headsets. Headsets must be ordered separately. Only Telex Headsets with dynamic microphones are compatible for use with Telex Legacy systems.

This specifications information is preliminary and is subject to change without notification.

Brand names mentioned are the property of their respective companies.

Contact Information

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Form Number: LIT000093000 Rev B

Date: August 2008

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