At last a wireless intercom with the features you need. UHF operation, frequency agile, all metal beltpack, an easy to use user interface and much, much more! The new BTR-700 wireless intercom system utilizes cutting edge technology to ensure the utmost in range, interference resistance and high audio quality. Combine all of that with new Enhanced ClearScan™ technology that enables you to select intermod and interference free frequencies with the touch of a button, and you've got the wireless intercom to get you through virtually any challenge you face.

- Four beltpacks per base station. Each BTR-700 base station can support up to four TR-700 wireless beltpacks in fulltime transmit, full duplex operation. Multiple base station/beltpacks systems can be used together to meet the needs of virtually any wireless communications application.
- Frequency agile. Choose from 1440 user selectable frequencies using the 700's new revolutionary graphical user interface. Frequencies can be selected from groups of intermod free choices, or any frequency in 25 KHz increments. Select from 720 TX and 720 RX frequencies each from independent 18 MHz operational windows.
- UHF operation. Both the BTR-700 and the TR-700s operate in the UHF band from 518 to 740 MHz. Bases and beltpacks operate in specific 18 MHz operational bands. Contact Telex customer service for complete operational band details.
- Enhanced ClearScan™ frequency auto selection. Frequency selection has never been easier! This is an advanced form of our existing ClearScan technology. It actually looks at all of the available frequencies in the pre-intermoded groups and ranks them so that the user knows the best frequencies to use. Now you can walk into a new venue in a new city and have a clear set of frequencies in less than a minute with the push of a couple of buttons!

- Intermodulation-free factory selected groups. Each 700 system comes with 24 factory selected, pre-intermoded groups that allow even the most uninitiated user to get started right out of the box. Telex has done all of the work for you!
- "Fifth Person" Talk/Listen station at base. The BTR-700 base station features a full talk/listen headset station so that an additional user can communicate on the intercom channel.
- Intelligent Power Control™. This new breakthrough technology takes system range and performance to a whole new level. Each beltpack senses when it is close to the base station and intelligently reduces its output by 10 dB. This effectively eliminates overloading the base station receiver front end which is the primary cause for the "near – far" desensing problem experienced in other wireless intercoms.
- Cast magnesium beltpacks. TR-700 beltpacks are constructed of extremely light, strong and durable cast magnesium. That's the metal "mag" wheels are made from! Using magnesium substantially decreases the weight of the beltpack while assuring the utmost ruggedness and durability.
- Graphical user interface. Both the BTR-700 and the TR-700 have easy to use user interfaces utilizing state of the art LCD displays. Custom graphical menus on the BTR-700 allow access to all of the powerful features and system operational parameters. The menu structure has been specifically designed to be intuitive and easy to use right out of the box.
- Detachable beltpack antennas. TR-700 beltpacks feature detachable antennas that utilize stud type threaded connectors that do not have a fragile center pin to break off or bend. Detachable antennas make storage or shipping a breeze.
- Two great battery options. TR-700 beltpacks can be operated from standard Alkaline AA batteries that provide over 14 hours of continuous duty operation. For applications where rechargeable batteries are required optional NiMH battery packs are available. NiMH batteries do not develop harmful memories like NiCads and offer a full 12 hours of operation. Drop-in chargers are also available in single and four-gang configurations.

BTR-700 Base Station Back

TR-700 Metal Beltpack Transceiver

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RF Frequency Range: 518 - 608 MHz, 614 - 740 MHz

> in 18 MHz TX and RX bands 6 "AA" Cells Alkaline (NiMH optional)

Power Requirements: **Current Draw:** 140 mA (Push-to-Talk, Talk On) Temperature Range: -4°F to 130°F (-20°C to 55°C)

> $3.75'' \text{ W} \times 5.05'' \text{ H} \times 1.65'' \text{ D}$ $(9.5 \text{ cm} \times 12.8 \text{ cm} \times 4.2 \text{ cm})$

Weight: 15 oz. (.425 kg) with alkaline batteries 1/4 Wave (supplied), Screw type Transmit Antenna:

Receive Antenna: 1/4 Wave (supplied), Screw type

FCC ID: B5DM515 Frequency Response: 300-8 KHz Microphone Input Sensitivity: 7 mV

Local Headset Output: 40 mV output into 600 Ω (1% distortion)

Transmitter

Dimensions:

Synthesized, 720 channels Type:

Transmit Power: 50 mW Max. (Auto-power reduction when close to base)

Modulation Type: FΜ Deviation: 40 KHz RF Frequency Stability: 0.005%

Modulation Limiter: Peak-Responding Compressor Radiated Harmonics & Spurious: Exceeds FCC specifications

Receiver

Type: Dual Conversion Superheterodyne, Synthesized, FM,

720 channels

< 0.7 uV for 12 dB SINAD RF Sensitivity: Squelch Threshold: 20 dB SINAD (About 1.0 uV)

IF Selectivity: 3 dB at 230 KHz 70 dB or better Image Rejection: Squelch Quieting: 90 dB RF Frequency Stability: 0.005%

Distortion: <1% at full deviation

Ordering Information

ordering information					
Model No.	del No. Description				
BTR-700	AudioCom Version C6 Base Transceiver	71303C6			
TR-700	AudioCom Version C6 Beltpack Transceiver	71304C6			
BTR-700	RTS Version C6 Base Transceiver	71303C6R			
TR-700	RTS Version C6 Beltpack Transceiver	71304C6R			
BTR-700	RTS 5-Pin Version C6 Base Transceiver	71303C6R5			
TR-700	RTS 5-Pin Version C6 Beltpack Transceiver	71304C6R5			

All specifications are subject to change without notice.

Telex EVI Audio GmbH Hirschberger Ring 45 D-94315 Straubing Tel.: +49 (0) 9421 - 706-0, Fax: +49 (0) 9421 - 706-265 Email: info@telex.de Web: www.telex.com

BTR-700 Base Station Transceiver

Overall

RF Frequency Range: 518 - 608 MHz, 614 - 740 MHz in 18 MHz TX and RX bands

100-240 VAC, 50 - 60 Hz, IEC receptacle **Power Requirement:** Temp Range: -4°F to 130°F (-20°C to 55°C) **Dimensions:** 19.00" W × 1.72" H × 14.00" D

 $(48.3 \text{ cm} \times 4.4 \text{ cm} \times 35.6 \text{ cm})$

Weight: 6 lbs. 15 oz. (3.15 kg)

Transmit Antenna: 1/2 Wave (supplied) TNC Male Connector 1/2 Wave (supplied) TNC Male Connector Receive Antenna:

FCC ID: B5DM514 300-8 KHz Frequency Response:

Four Wire Input: Level Adjustable (2 Vrms typical) Four Wire Output: Level Adjustable (2 Vrms typical)

Telex® Intercom: Input/Output Level Adjustable (1 Vrms typical),

Line impedance 300 Ω

RTS® Intercom: Input/Output Level Adjustable (0.775 Vrms typical),

Line Impedance 200 Ω

Input/Output Level Adjustable (1 Vrms typical), ClearCom® Intercom:

Line Impedance 200 Ω Adjustable (2 Vrms typical)

Auxiliary Input: **Auxiliary Output:** Adjustable (2 Vrms typical into 600 Ω)

Microphone Input Sensitivity: 9 mV

Local Headset Output: 40 mW output into 600 Ω (1% Distortion)

Transmitter

Synthesized, 720 channels Type:

Transmit Power: 50 mW Max. (High), 10 mW (Normal)

Modulation Type: Deviation: 40 KHz RF Frequency Stability: 0.005%

Modulation Limiter: Peak-Responding Compressor Radiated Harmonics & Spurious: Exceeds FCC specifications

Receiver

Dual Conversion Superheterodyne, Synthesized, FM, Type:

720 channels

RF Sensitivity: < 0.7 uV for 12 dB SINAD Squelch Threshold: 20dB SINAD (About 1.0uV)

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

Distributed by:

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TELEX BTR-700/800/825 -vs- BTR-80N										
Feature	Telex 700	Telex 700 Telex 800/825 Telex 80N BASE STATION AND SYSTEM FEATURES								
RF FREQUENCY RANGE	518-608, 614-740 MHz	470-608, 614-746 MHz	TON AND GIGIE	482-608, 614-722 MHz						
FREQUENCY BANDS	5 (A2, B4, C3, C6, G9)	18 F1, F2, F3, F4 H1, H2, H3, H4 A2, A3, A4 B3, B4, B6 C3, C4, C6 E88		32 F1, F2, F3, F4, F5, F6 H1, H2, H3, H4, F5, F6 A1, A2, A3, A4, A5, A6 B2, B3, B4, B5, B6 C3, C4, C5, C6 D4, D5, D6 E5, E6	"6" & "G9" BANDS ARE INTENDED FOR SALE AND USE OUTSIDE OF THE USA					
TRANSMITTER OCCUPIED BANDWIDTH	100 KHz	100 KHz		25 KHz						
Simultaneous 2 Wire & 4 Wire Operation	NO	YES - Either Channel		YES - Each Channel						
BASE STATION ANTENNA (Supplied)	1/2 Wave	1/2 Wave		1/2 Wave						
FREQUENCY SCANNING	YES ClearScan®	YES ClearScan®		YES ClearScan®						
BASE STATION TRANSMIT POWER	50 & 5mW	100 & 10mW		249, 100, 50 & 10mW						
BASE STATION DUAL TRANSMIT ANTENNA OUTPUT	N/A	OPTIONAL		OPTIONAL						
WARRANTY	3 YRS	3 YRS		3 YRS						
USER ADJUSTABLE SQUELCH CONTROL	NO	NO		YES						
RF METER (Rx SIGNAL STRENGTH)	NO	NO		YES						
BELTPACK BATTERY GAUGE ON BTR DISPLAY	NO	NO		YES						
ABILITY TO TURN OFF TR Tx FROM BTR	NO	NO		YES						
AC or DC POWER OPERATION	YES - KIT	YES - KIT		YES						
AUXILIARY AUDIO ASSIGNABLE	NO	NO		YES						
WIRELESS TALK AROUND - WTA	YES	YES		YES						
STAGE ANNOUNCE - SA	YES	YES		YES						
INTELLIGENT POWER CONTROL (TR Tx POWER)	YES	YES		YES						
FIRST ON - LATCH OUT OPERATION WITH TONE WARNING	NO	NO		YES Tone Defeatable						
SELECTABLE DC POWER FEED ON Rx LINE	NO	NO		YES 9 volts DC						
	BELTPACK FEATURES									
	<u>TR-700</u>	<u>TR-800</u>	<u>TR-825</u>	<u>TR-80N</u>	<u>TR-82N</u>					
BELTPACK CONSTRUCTION	METAL DIE CAST MAGNESIUM	METAL DIE CAST MAGNESIUM	METAL DIE CAST MAGNESIUM	METAL DIE CAST MAGNESIUM	METAL DIE CAST MAGNESIUM					
BELTPACK BATTERY LIFE (6 AA Alkaline)	14 Hrs	14Hrs	11Hrs	10 Hrs	9 Hrs					
BELTPACK BATTERY LIFE (BP-800NM)	11 Hrs	11 Hrs	9.5 Hrs	10 Hrs	8 Hrs					
PROGRAMMABLE BUTTONS ON BELTPACK	YES	YES	YES	YES	YES					
PROGRAMMING AT BELTPACK	YES	YES	YES	YES	YES					
BELTPACK TRANSMIT POWER SELECTABLE-	AUTO; 5 - 50mW NO	AUTO; 5 - 50mW NO	AUTO; 5 - 50mW NO	AUTO; 5 - 50mW YES - AUTO, 100, 50, 5mW	AUTO; 5 - 50mW YES - AUTO, 100, 50, 5mW					
BELTPACK LOW BATTERY INDICATOR	YES	YES	YES	YES	YES					
BELTPACK LOW BATTERY TONE WARNING	NO	NO	NO	YES	YES Tone Defeatable					
ABILITY TO DISPLAY FREQUENCY AT BELTPACK	YES	YES	YES	YES	YES					
EXTRA PDA DEVICE REQUIRED FOR PROGRAMMING	NO	NO	NO	NO	NO					
BELTPACK TETHERED PROGRAMMING TO BASE STATION	NO	NO	NO	NO	NO					
USER ADJUSTABLE SQUELCH CONTROL	NO	NO	NO	YES	YES					
RF METER (Rx SIGNAL STRENGTH)	NO	NO	NO	YES	YES					