

Exhibit A
Telex Communications, Inc.
Experimental License Application

The purpose of this experimental license is for ~~product development, and interference testing~~ in a high noise environment, of a digital wireless intercom. The application of the Telex RadioCom BTR-500/600 UHF wireless intercom system will provide secure communications between on-field NFL coaches and their control box staff inside football stadiums without causing interference. The BTR-600 series includes a ~~unique patented digital encryption process for secure communications~~ between, and among, coaches and the coaching staff.

The wireless intercom system will operate in the 520 to 760 MHz range (either 518-608 MHz or 614 - 764 MHz) and will operate reliably at distances of more than 1,000 feet. The emission designation will be 190KF1E. The device will operate at less than a 50Mw power level. Additional specifications are attached.

The BTR-500/600 set will provide full duplex encrypted communications with a single belt pack transceiver. The BTR-500/600 base station transmits a UHF frequency that the TR-500/600 receives and simultaneously transmits a UHF frequency that the base station receives. The device will ~~not be used without first coordinating with the Part 74 SBE volunteer frequency coordinator in each stadium~~ prior to each use of the device since the device operates on frequencies utilized by Broadcast Auxiliary licensees.

EXHIBIT A1

LICENSE INFORMATION FOR NFL WIRELESS INTERCOM

6/25/98

Requested Information:

- 1) Frequency **518 - 608 Mhz**
 614 - 764 MHz
 (16 fixed freq per sideline for total of 32 max frequencies in use at a time -
 Each freq has one fixed alternate)
- 2) Emission Designation **190KF1E**
- 3) Power Level **Less than 50Mw.**
 (25Mw typical)
- 4) Antenna Gain **Base: 3dbi, Rx and Tx**
 (Height above playing field is 10ft. max)
- Beltpack: - 3dbi, Rx and Tx**
 (Height above playing field is waist high, 5ft. max)
- 5) Description **Base Station: BTR-600 - FCC ID: B5DM503**
 Beltpack: TR-600 - FCC ID: B5DM504
 (See Attached)

EXHIBIT A2

RadioCom™

w i r e l e s s i n t e r c o m s

BTR-600

The Telex® RadioCom™ BTR-500/600 UHF Wireless intercom systems offer the ultimate in reliable, high performance, high fidelity, full duplex communications. Operating in the 520 to 760 MHz range the units operate reliably at distances of over 1,000 feet. Various types of log periodic antennas are available that can increase the effective range to ½ mile or more depending on site conditions.

The BTR-600 series incorporates Auto-switching 2 channel audio operation, permitting the belt pack user to select between 2 separate audio channels of communication. Auto-switching provides the flexibility to create private and party lines within the same belt pack.

The BTR-500/600 series also incorporates two channel frequency agility. The base station and belt pack have two UHF transmit frequencies and two UHF receive frequencies that allow the user to escape frequency interference problems that may arise.

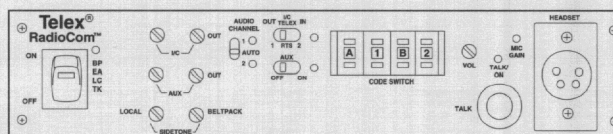
The BTR-500/600 series is perfectly suited for stand-alone (single drop) operation and easily expands up to 16 BTR/TR sets permitting up to 32 discrete full duplex channels. The systems are fully compatible with RTS™ TW and Audiocom™ party line intercoms, as well as RTS Digital Matrix systems and other 4 wire communications systems. The systems easily adapt to other types of party line intercom. The base station also allows connections for auxiliary balanced line level audio input and output.

The BTR-600 series includes a unique patented digital encryption process for those who need secure full duplex communications. The 600 series offers over 65,000 code settings that can be changed on the fly by means of 4 cipher code switches on the units.

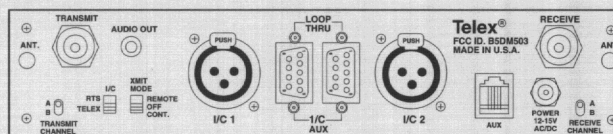


Code Switch:

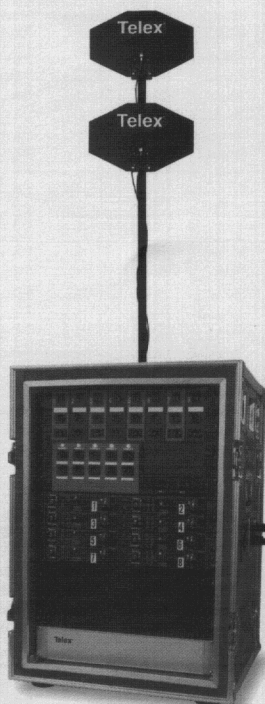
Allows operator to select up to 65,000 different cipher codes (BTR-600 set only).



Front



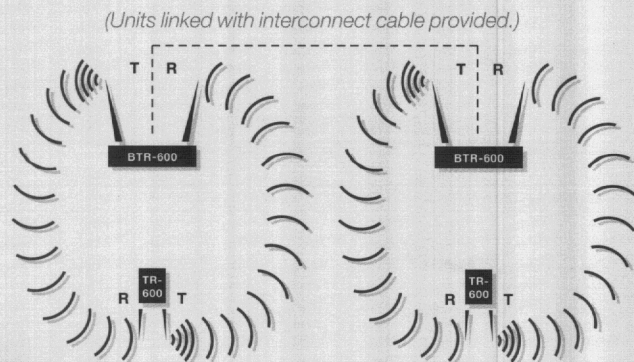
Back



Shown:

National Football League Coaches' System featuring 8 BTR-600 sets and an SC-600 Antenna combiner.

TR-600



How The System Works:

The BTR-500/600 set provides full duplex communications with a single belt pack transceiver. The BTR-500/600 base station transmits a UHF frequency that the TR-500/600 receives and simultaneously transmits a UHF frequency that the base station receives.

1 to 16 BTR-500/600 sets may be operated simultaneously permitting full duplex communications. Units can be linked together to create private or party line communications (units linked with interconnect cable provided).

EXHIBIT A3

Overall	BTR-600 Base Station Repeater	BTR-500 Base Station Repeater	BTR-200 II Base Station Repeater	TR-600 Belt Pack Transceiver	TR-500 Belt Pack Transceiver	TR-200 Belt Pack Transceiver
Power Requirements	115 Vac, 60 Hz, 8W (230 Vac, 50 Hz, Model Avail.) or 12 to 15 V AC/DC (external)	115 Vac, 60 Hz, 8W (230 Vac, 50 Hz, Model Avail.) or 12 to 15 V AC/DC (external)	115 Vac, 60 Hz, 8W (230 Vac, 50 Hz, Model Avail.) or 12 to 15 V AC/DC (external)	6 "AA" Cells (Alkaline) Nickel Metal Hydride optional	6 "AA" Cells (Alkaline) Nickel Metal Hydride optional	6 "AA" Cells NiCad optional
Current Drain				120 mA	120 mA	65 mA
Temp Range	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)
Dimensions	8.25"W x 1.75"H x 11.25"D (21cm x 4.5cm x 28.6cm)	8.25"W x 1.75"H x 11.25"D (21cm x 4.5cm x 28.6cm)	15.75"W x 1.75"H x 10.5"D (40cm x 4.5cm x 27cm)	4"W x 5 7/8"H x 1 1/4"D (102mm x 149mm x 41mm)	4"W x 5 7/8"H x 1 1/4"D (102mm x 149mm x 41mm)	4.25"W x 4.125"H x 2.0"D (108mm x 105mm x 51mm)
Weight	4 lbs. (1.8kg)	4 lbs. (1.8kg)	4.5 lbs. (2kg)	1 lb. 6 oz (625g) with batteries	1 lb. 6 oz (625g) with batteries	13 oz (369g) with batteries
Transmit Antenna	1/2 wave (supplied) TNC connector on chassis	1/2 wave (supplied) TNC connector on chassis	3/4 wave (supplied) SO239 connector on chassis	1/4 wave wire (attached)	1/4 wave wire (attached)	1/4 wave wire (attached)
Receive Antenna	1/2 wave (supplied) TNC connector on chassis	1/2 wave (supplied) TNC connector on chassis	3/4 wave (supplied) SO239 connector on chassis	1/4 wave wire (attached)	1/4 wave wire (attached)	1/4 wave wire (attached)
Transmit						
RF Frequency Range	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz
RF Frequency Stability	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%
RF Power Output	40 mW Typical	40 mW Typical	50 mW Typical	40 mW Typical	40 mW Typical	50 mW Typical
Modulation	F-1-E ± 32 KHz deviation 62.5 K baud	F3.40 KHz deviation, 100 micro-seconds Pre-emphasis	F3.4 KHz deviation, 100 micro-seconds Pre-emphasis	F-1-E ± 32 KHz deviation 62.5 K baud	F3.40 KHz deviation, 100 micro-seconds Pre-emphasis	F3.4 KHz deviation, 100 micro-seconds Pre-emphasis
Mod. Limiter	Internal Compressor	Internal Compressor	Internal Compressor	Internal Compressor	Internal Compressor	Internal Compressor
Modulation Freq. Range	300 to 4500 Hz ± 2 dB	300 to 8000 Hz ± 2 dB	300 to 5000 Hz ± 2 dB	300 to 4500 Hz ± 2 dB	300 to 8000 Hz ± 2 dB	300 to 5000 Hz ± 2 dB
Microphone Audio Input	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms
Microphone Input Sensitivity	2 mV	2 mV	2 mV Dynamic, 4 mV Electret	2 mV	2 mV	2 mV Dynamic, 4 mV Electret
Radiated Harmonics and Spurious Emissions	-45 dBC	-45 dBC	-45 dBC	-45 dBC	-45 dBC	-45 dBC
External Audio Input	Auxiliary & Intercom Inputs	Auxiliary & Intercom Inputs	Auxiliary & Intercom Inputs			
FCC	Type accepted under FCC Part 74	Type accepted under FCC Part 74	Type accepted under FCC Parts 74 and 90	Type accepted under FCC Part 74	Type accepted under FCC Part 74	Type accepted under FCC Parts 74 and 90
Receive						
RF Frequency Range	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz
RF Frequency Stability	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%
Type	Single Conversion Superhetrodyne, FM	Single Conversion Superhetrodyne, FM	Dual Conversion Superhetrodyne, FM	Single Conversion Superhetrodyne, FM	Single Conversion Superhetrodyne, FM	Dual Conversion Superhetrodyne, FM
RF Sensitivity	<0.7 μ V for 12 dB SINAD	<0.7 μ V for 12 dB SINAD	<0.5 μ V for 12 dB SINAD	<0.7 μ V for 12 dB SINAD	<0.7 μ V for 12 dB SINAD	<0.5 μ V for 12 dB SINAD
IF Selectivity	3 dB at 230 KHz (Ceramic Filter)	3 dB at 150 KHz (Ceramic Filter)	3 dB at 30 KHz (4 pole Monolythic Filters)	3 dB at 230 KHz (Ceramic Filter)	3 dB at 150 KHz (Ceramic Filter)	3 dB at 30 KHz (Ceramic Filter)
Image Rejection	70 dB or better	70 dB or better	70 dB or better	70 dB or better	70 dB or better	70 dB or better
Squelch Quieting	67 dB	65 dB	90 dB	67 dB	65 dB	90 dB
Squelch Threshold	3.0 μ V (Internal)	1.5 μ V (Internal)	1 μ V (Internal)	3.0 μ V (Internal)	1.5 μ V (Internal)	3.0 μ V (Internal)
Signal-to-Noise Ratio	55 dB	63 dB	90 dB	55 dB	63 dB	90 dB
Audio Output	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)
Other Audio Outputs	Audio, Auxiliary, Intercom Aux in-out/four wire/IC 2 chnl	Audio, Auxiliary, Intercom Aux in-out/four wire/IC 2 chnl	Speaker, Auxiliary, Intercom			
Distortion	<3.5% at Rated Output	<1% at Rated Output	<1% at Rated Output	<3.5% at Rated Output	<1% at Rated Output	<1% at Rated Output
FCC	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15

SC-600

Frequency Range: 520-760 MHz
Antenna Connectors: Standard TNC receptacles
AC Power Input: 110/220 VAC 50/60 Hz, 130 VA
DC Power Output: 15 VDC 1.3 A
Dimensions: 3.5" H x 17" W x 12.5" D
 (88.9mm x 431.8mm x 317.5mm)
Weight: 15 lbs.

Splitter

3rd Order Intercept Output: >28 dBm
Net Gain: >2 dB
Noise Figure: <4 dB
Output Isolation: >20 dB

Combiner

Net Gain: 0 dB
Noise Figure: 10 dB Typ
3rd Order Intercept Output: -55 dBm @ +13 dBm
 Input, each transmitter

Telex®

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