

## Telex Model LT-100<sup>E</sup> Transmitter

### Owners Manual (Preliminary)

The Telex Model LT-100E is a 100 Channel Beltpack Synthesized UHF transmitter operating within Television Channels 47/48 and 58/59. The LT-100E is intended for use with the Telex Model USR-100E Receiver to form a Professional Wireless Microphone System for voice use.

#### FEATURES:

- Simplicity of operation.
- 100 RF Channels the user can select to aid itinerant operations or to avoid interference as well as to facilitate frequency coordination for multiple system operation.
- Economical operation from two AA size batteries.
- Fuel Gauge to monitor battery life.
- Silent Power ON/OFF switch.
- Premium Microphones.

#### OPERATION:

1. Determine the RF Channel that the companion USR-100E receiver is set to or will be used on. ( For initial channel selection, choose a channel that has no active local TV stations. If all TV channels are in use, choose a channel that is at the farthest distance from the area of use.)
2. Set the LT-100E Transmitter RF Channel to the same channel selected in 1. above.
3. Install fresh AA Alkaline batteries in the LT-100E.

4. Slide the Power ON/OFF switch to the ON Position.
5. Press the Battery Check switch to test the new batteries under load.
6. Talk into the microphone at the level you intend to use. Observe the Audio lights on the USR-100E. Normal voice levels will cause the -20, -10 and occasionally the -5 lights to be on. Adjust the Microphone Gain Control as required. If loud speech is to be expected, adjust the Microphone Gain Control such that average speech level causes only Audio lights -20 and -10 to come on. Occasional flashes of the 0 and +5 Audio Lights is acceptable.

If the Audio Lights on the USR-100E receiver are reacting normally and the audio sounds "clipped" or "noisy", you may have to adjust the "audio adjust" on the receiver to prevent over or under driving the audio system the USR-100E is attached to.

7. "Walk Test" the system by walking around the area the microphone will normally be used in. This will assist you in finding "trouble areas" to avoid. Trouble areas if any can sometimes be corrected by moving the receiver antennas to a different position or location. These trouble areas are usually caused by complete cancellation of signal from reflections and no diversity receiver, regardless of manufacturer can correct this
8. To shut down the transmitter after use, you should always reduce the volume control on audio amplifiers or deselect the line from mixers, before turning the transmitter off. This will prevent extraneous noises such as handling noises from being transmitted when the transmitter ON/OFF switch is operated.

The LT-100E Transmitter ON/OFF switch can now be set to the OFF position.

Specifications:

Frequency Range.....668.000 to 746.000 MHz (current models operate in  
2 frequency ranges, channel 47/48, spacing is not continuous...668.100 to 679.500 MHz;  
channel 58/59, spacing is not continuous...734.100 to 745.500 MHz;

Power Output: (Terminated).....10mW, HI Position, 1.0 mW LO position.

Modulation: NFSK.

Frequency Response: (System)....50 Hz to 4000 Hz.

Unit power:.....2 AA size Alkaline batteries.

Battery Life:.....6 Hours, HI position, 9 Hours, LO position.

FCC INFORMATION

The Telex Model LT-100E Transmitter is authorized under FCC Rules Part 74H. Licensing of Telex equipment is the user's responsibility and licensability depends upon the user's classification, and frequency selected.

FCC ID B5DB111E

INDUSTRY CANADA INFORMATION

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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