**Preliminary Users Manual**

**Electro-Voice Model WTU-2 Wireless Microphone Transmitter**

The Electro-Voice (Ev) WTU-2 is a Professional Grade Wireless Beltpack Transmitter operating in the UHF frequency range. The WTU-2 combines frequency agility and ease of use . The transmitter operates within a 28 MHz wide segment in 25 kHz steps.

The RF coverage range of the WTU-2 beltpack communicating to a receiver may be up to 100 meters (328 ft).

The high quality audio circuitry and advanced Radio Frequency (RF) signal processing offer broadcast quality signal-to-noise ratio and audio clarity.

System features include:

- Durable Painted Metal Case.
- TB-4M Audio Connector.
- Permanent Flash Memory for frequency/setting storage.
- On-Loc prevents accidental power off (when set).
- LCD Display for ease of viewing.
- Flexible quarter wave screw-on Antenna.

Quick set-up:

1. With the Power Switch on the transmitter OFF, install fresh batteries into the transmitter.

2. *To prevent feedback or unintentional noise, mute the audio mixer/amplifier or other device during set-up adjustments.*

   Place the transmitter Power Switch to the ON position.

3. The Battery light near the Off/On switch will flash once and then go off. If the light does not flash, a bad battery is the most likely cause. The display will also come on briefly displaying the current frequency group and channel and the battery level. Note: Anytime Power is removed and turned back on, the GP/CH/Bat screen will be displayed.

Quick set cont'd.

4. If the Group and Channel match the desired receiver group and channel, proceed to Step 9. If not, proceed to Step 5.

5. To select a different GP/CH, press SET one time. The Group will start flashing. Use the up and down arrows to change the group number. Press the SET button to save the Group.

   After setting the Group, the Channel number will start flashing. Use the up/down arrows to change the Channel number. Press SET and the channel is now saved.

6. There are 12 preferred Groups and up to 16 Channels available in stored memory. If desired, you can create new groups/ channels but you must change to a new frequency to store in that group/channel.

   In order to select a new frequency, you must have a "users" group /channel selected. Press the SET button. The Group should be flashing. Press the Up arrow until group 13u is found (any u group can be used) Press SET. The Channel should now be flashing. Select a channel with the up/down arrow. Press SET.

   You are now ready to select a frequency to store in the users group above. Press the Menu button one time. A "dashed" line may appear on the display (if this is the first user program) or a previously stored frequency will be displayed. Press the Set button one time. The line or frequency should start flashing.

   Press the Set button one time then use the Up/Down arrow buttons to select the desired frequency. Press Set when complete. The selected frequency should be displayed and not be flashing.

Quick set cont'd.

7.  Press the Menu button one time to advance to the next screen function.
    pressing the button once each time allows the user to scroll through the
    functions or change a function.

    The next screen is the audio (microphone/instrument) level (attenuator)
    screen. Setting the levels correctly depends on the microphone or
    instrument used and the person using the microphone. Setting the
    attenuator to "0"db is the same as setting a control to maximum gain.
    Setting the attenuator to –42 db is the same as setting a control to
    minimum gain. Each step of the attenuator equals 3 db.

    Setting the attenuator for the maximum Audio Meter reading on the
    receiver without peak distortion will produce the best signal to noise
    ratio.

8. The next screen is RF Power. The Transmit Power (RF) is shipped set to
   "Lo" for use with multiple frequency systems and the best battery life.
   "Hi" power can be selected for longer distances or to suppress noise or
   interference. The nominal power in Hi is 50 miliwatts
   (Tol:  +7mW / -10mW).

9.  The next screen is Voice or Guitar. The transmitter is shipped set to
    Voice. To select guitar when in the voice screen, press SET. The
    screen will flash, press the Up arrow and the screen will change to
    "Gui tAr". Press SET. The transmitter is now in guitar mode.

    To return to Voice (in the "gui tAr"screen) Press SET, the screen flash's,
    press the Down arrow, the screen changes to flashing Voice, Press SET,
    flashing stops. The transmitter is now in Voice mode.

10. When power off is required, simply place the power Off-On switch in
    the OFF position. The display will then delay slightly to allow the
    receiver to shut down quietly.

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RF Frequency range……………………(USA) 614.0 to 676.0 MHz.
RF Channel Step………………………25 kHz
RF Power (nominal)……………………Norm, 5 mW (Tol: +/- 3mW)
                                         High, 50 mW (Tol: +7 / -10mW)
Modulation……………………………FM, 40 kHz nominal.
Audio Frequency Response……………80-15000 Hz +/- 2 dB.
Audio attenuator Range………………..42 dB.
Microphones, Electret or Dynamic…… Electret bias provided.
Antenna………………………………..Quarter Wave Flexible.
Battery Life (Alkaline)………………....8-10 Hours Typical.
Final Current at high power…………….18.6 mA
Final Voltage at high power……………5 VDC

## Approval Information:

**FCC**
The Telex/Ev WTU-2 Transmitter is Type Accepted under United States
Federal Communications Commission Part 74.

Licensing of Telex/Ev equipment is the user's responsibility and
licensability depends upon the user's classification, user's application and
frequency selected. Telex/Ev strongly urges the user to contact the
appropriate telecommunications authority for any desired clarification.

**CAUTION:** Any changes or modifications made to the above equipment
could void the user's authority to operate the equipment.  NOTE:  The
beltpack is intended to be worn on the belt of the user with the antenna
vertical for best operating range and performance.  Placing the beltpack in
other locations on the body may reduce performance and void the user's
authority by the FCC to operate the equipment.

**Industry Canada**
The Telex/Ev WTU-2 Transmitter is Certified to Industry Canada
RSS-123 rules.

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