

Preliminary Users Manual, Electro-Voice Model HTU-2 Wireless Microphone Handheld Transmitter

The component above is part of a Electro-Voice/Telex Wireless Microphone System. The transmitter is designed to be used in Live Sound Reinforcement applications where Sound Quality and Reliability are of prime importance. Simplicity of operation is assured along with flexibility for varying venues. Operating features and cosmetics are slightly different between Electro-Voice (Ev) and Telex models but both are electrically identical.

Features:

Handheld Transmitter.....

- 950 Radio Channels, user programmable or factory installed.
- Phase Locked Frequencies for Stable Operation.
- Efficient current drain vs. power system.
- Patented Internal Dipole antenna eliminates wires or “rubber duck” Antennas.
- Specially shaped Handle for comfort and low handling noise.
- 9 Volt Alkaline battery operation.
- Low Profile Power Switch.
- LCD Display for ease of viewing.
- On-board frequency program and menu “Set” switch.
- Microphone Gain Control.
- Loc-Out control to prevent tampering or accidental changes.
- Permanent “Memory” for frequency/system storage.
- Transmit Tone for squelch control.
- Microphone Gain control for talent set-up.
- Low Battery Gauge. (read at the receiver).

Specifications:

Operating Frequency Range.....518-608, 614-746 MHz,
in 24 MHz wide bands.
Frequency Stability..... 50 PPM. (18 PPM Euro).
Channels.....950 (25 KHz steps).
RF Power Output.....30 mW (terminated).
Antenna.....1/2 Wave internal.
Modulation Type.....FM, 40 KHz Deviation.
Modulation Limiter.....Limiter/Compressor.
Audio Frequency Range.....100-15000 Hz, +/- 2 db.
(actual frequency response depends on capsules/mic elements used).
Audio Frequency Distortion.....0.5 % THD @ 1000 Hz typical.
Audio Input.....7.75 mV for 40 KHz Deviation.
Audio Frequency Dynamic Range.....100 db.
Audio Frequency Signal/Noise Ratio.....100 db.
Temperature Range.....-18 deg.C to 54 deg. C.
Power.....9.0 VDC (Alkaline).
Battery Life.....8-10 hours typical (Alkaline).

Handheld Transmitter set-up:

1. Before setting up the transmitter, please refer to the RE-2/FMR-500 Receiver manual . If the receiver has been set up, continue to step 2.
2. Install a fresh Alkaline Battery into the transmitter.
3. Insure that the Microphone Gain Control is set at about 50 % of rotation or less.
4. Place the Power Switch in the ON position.
The Red Low Battery Light (“Batt”) near the display should “flash” one time if the battery is good. If the light remains on, the battery is weak and should be replaced. No flash at all indicates a dead battery or no battery installed.
5. The screen should display the GP (Group) and CH (Channel) screen. If the Group and Channel agree with the receiver Group and Channel, proceed to the next step. If the Group and Channel do *not* agree with the receiver, or you wish to change them for any reason, proceed with this step. Press the SET switch one time. The GP number will start flashing. Use the UP (arrow) switch to increase the Group or the Down (arrow) to decrease the Group number. Press Set when the Group desired is displayed. The Channel number will now be flashing. Use the Up or Down arrow to select the desired channel. Press Set when the Group and Channel is selected.
6. Monitor the RE-2/FMR-500 Receiver operating screen. Note that the RF (1-100) Bar Graph should indicate near the 100 bar if the transmitter is close to the receiver. The AF Bar Graph should show very little or no indication until you talk or sing into the microphone. Adjust the Gain Control (small screwdriver adjustment located in the hole between the display and the microphone element) if necessary, to cause the AF bar graph to peak near -3 but not over $+3$ for best performance.
7. If you are satisfied with the Group/Channel and AF screen displays, the mixer or sound system gain/volume can be increased to monitor the sound. The Handheld System is now ready for use.
8. Switch the Power off when use is complete.

APPROVAL INFORMATION

The Electro-Voice/Telex Transmitter is Type Accepted under United States Federal Communications Commission CFR 47, Part 74 and Industry Canada RSS123.

Licensing of Electro-Voice/Telex equipment is the users responsibility and Licensability depends upon the users classification, users application and frequency selected. Electro-Voice/Telex 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 users authority to operate the equipment.

This device and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter.