

Telex[®]

FMR-150 VHF Frequency-Agile Wireless Microphone System



A Totally New Concept in Wireless Microphone Systems

The new PRO[®] FMR-150 system from Telex represents a totally new way of thinking in wireless microphone systems. Until the FMR-150 system, you had to either choose between the solid RF and audio performance of a crystal-controlled system, and risk the chance of interference from another wireless microphone system nearby, or you settled for a Phased-Locked-Loop digital synthesized wireless system with frequency agility, and sacrificed your audio quality, battery life, and operating range.

Telex has again made the choice among wireless

microphone systems crystal clear by developing a technology that gives you the benefits of a crystal-controlled system, and the flexibility of real frequency agility. The result is the rock solid RF performance, and the premium audio quality you have come to expect from a Telex wireless system.

Advanced System Features

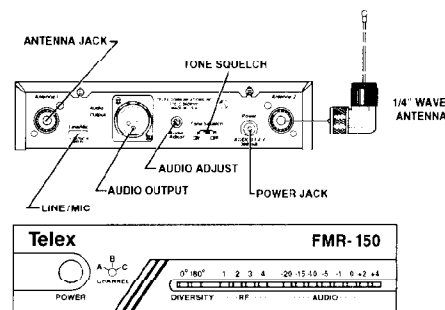
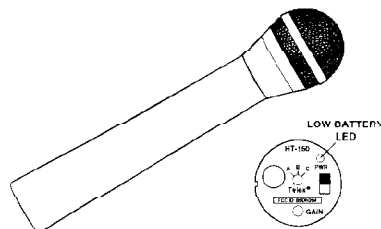
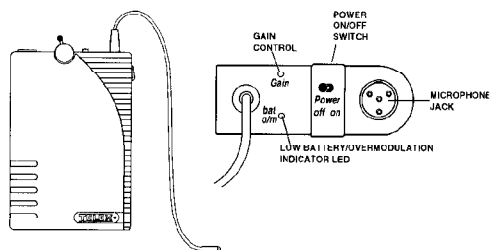
The FMR-150 system features crystal-controlled frequency agility with three compatible frequencies, patented Posi Phase Auto Diversity[™] for the ultimate in diversity performance, plus the revolutionary Posi-Squelch III[™] Tone-Code *plus* Auto Suppression system for maximum protection against interfering transmissions.

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General Features

- 3-channel crystal-controlled frequency agile, with a wide 3.5 MHz maximum separation. All three frequencies are compatible for simultaneous use.
- Posi-Squelch III™ tone code plus Auto Suppression system featuring a true noise squelch, and a tone squelch for optimum system quieting.
- Patented Posi-Phase Auto-Diversity™ true diversity circuitry to eliminate drop-outs and noise-ups from phase cancellation and multipath.
- The FMR-150 system tunes across two adjacent TV channels, making it ideal for inter-city use.
- Three individually tuned local oscillators for rock solid RF performance.
- Line or mic balanced output to professional XLR-3M connector with variable level control.
- Premium audio quality with a quiet 104 dB signal-to-noise ratio (107 dB A weighted).
- Advanced audio companding system utilizing an outboard op amp, which maintains overall system quieting and a low degree of system mistracking.
- Single switch transmitters with LED low battery/overmodulation indicator, and frequency selector.

Specifications



WT-150 Micro-pack Transmitter

RF Frequency Range: 169-216 MHz
Audio Response: 50-15,000 Hz \pm 3 dB
Maximum Input SPL: 140 dBI
RF Power Output: 50mW Max, 45mW Typical
Modulation: FM \pm 12KHz deviation
Harmonic & Spurious Emissions: 30 dB below carrier
Antenna Type: 1/4 wave pigtail omnidirectional
Battery Type: 9 volt Alkaline, or 8.4 volt NiCad
Battery Life: 12 hours continuous use Alkaline, 4 hours continuous use NiCad
Audio Input: Mic level adjustable
Connector Type: Switchcraft TA-4M
Audio Controls: On/Off, mic level
Phantom Power: +6Vdc on pin 3 regulated
Temperature Range: -4° F to 130° F (-20° to 55° C)
Weight: 3 oz. (85g)
Size: (WDH) 2.5 in X .875 in X 3.625 in (6.4 cm X 2.2 cm X 9.2 cm)
FCC ID: B5DB104 Parts 74 & 90
Visual Indicators: Low battery LED/ Overmod indicator

Ordering Information

The Telex FMR-150 is available in various system configurations. Choose from systems with handheld or micro-pack lapel systems. All FMR-150 systems are backed by a full, three year warranty. For pricing and dealer locations, call Telex today.

HT-150 Handheld Transmitter

RF Frequency Range: 169-216 MHz
Audio Response: 50-15,000 Hz \pm 3 dB (dependant on mic head)
Maximum Input SPL: 140 dBI
RF Power Output: 50mW Max, 45mW Typical
Modulation: FM \pm 12KHz deviation
Harmonic & Spurious Emissions: 30 dB below carrier
Antenna Type: 1/4 wave internal omnidirectional
Battery Type: 9 volt Alkaline, or 8.4 volt NiCad
Battery Life: 12 hours continuous use Alkaline, 4 hours continuous use NiCad
Audio Input: Mic level adjustable
Audio Controls: On/Off, mic level
Temperature Range: -4° F to 130° F (-20° to 55° C)
Weight: 8 oz. (227g) 65ELE
Size: 1.4 in dia X 9 in long (3.5 cm X 22.9 cm)
FCC ID: B5DH204 Parts 74 & 90
Visual Indicators: Low battery LED

FMR-150 Receiver

RF Frequency Range: 169-216 MHz
Audio Response: 50-15,000 Hz \pm 3 dB
Signal-to-noise ratio: 104 dB, Typical
RF Sensitivity: 0.8 μ v, 12 dB SINAD
Squelch Quieting: 125 dB
Squelch Level: 1.0 μ v
Ultimate Quieting: 100 dB A weighted
RF Channels: 3, 3.5 MHz total spread
Hum & Noise: 125 dB
Frequency Stability: .005%
IF Type: Single conversion 10.7 MHz
IF Filtering: 10 pole linear phase
Image Rejection: Better than 75 dB
Audio Output: 100K RL Line, +10 to -50 dBv adjustable, Mic, -20 to -80 dBv adjustable
Output Type: Balanced XLR-3M
Audio Controls: Mic/line
Temperature Range: -4° F to 130° F (-20° to 55° C)
Power Requirement: 13.0 Vac with supplied adaptor or 12-14 Vdc
Weight: 2 lbs, 5 oz.
Size: (WDH) 7.5 in X 8 in X 1.75 in (19.2 cm X 20.5 cm X 4.5 cm)
FCC ID: B5DR303 Part 15
Number of Concurrent Systems: 14

Telex®

THE WIRELESS INNOVATOR.

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Due to continuing product improvements, specifications are subject to change without notice.