

Telex®

FMR-70 VHF Professional Wireless Microphone Systems



The First In The Series Of Professional True Diversity Wireless Receivers

General Features

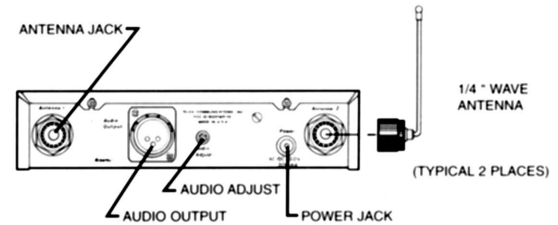
- Computer matched IF filters for maximum filtering and audio quality.
- Posi-Squelch Auto Suppression™ system featuring a true noise squelch for optimum system quieting.
- Patented Posi-Phase Auto-Diversity™ true diversity circuitry to eliminate drop-outs and noise-ups from phase cancellation and multipath.
- Ideal for multiple system use, up to twelve systems simultaneously.
- Balanced mic level audio output with variable level control, professional XLR-3M connector.
- Rack mountable in standard 19" racks. Removable antennas for use with external gain type antennas.
- Front panel audio, carrier detector, and diversity phase indicator LED's.
- Outstanding audio quality with a quiet 100 dB signal-to-noise ratio (104 dB A weighted).
- Advanced audio companding system utilizing an outboard op amp, which maintains overall system quieting and a low degree of system mistracking.

Specifications

FMR-70 Receiver

RF Frequency Range: 165-216 MHz
Audio Response: 50-15,000 Hz \pm 1 dB
Signal-to-noise ratio: 100 dB, Typical
RF Sensitivity: $<0.5 \mu\text{V}$, 12 dB SINAD
Squelch Quieting: 90 dB
Squelch Level: 1.0 μV internal
Ultimate Quieting: >94 dB
RF Channels: 1
Hum & Noise: -90 dB
Frequency Stability: .005%
IF Type: Single conversion 10.7 MHz
IF Circuitry: 3189 IF IC
IF Filtering: 5 pole ceramic filters
Image Rejection: Better than 75 dB

Audio Output: -60 dBm to -10 dBm
Output Type: Electronic Balanced XLR-3M
Audio Controls: Mic level
Visual Displays: Audio 4 seg, Diversity, 2 seg, transmit ON indicator
Temperature Range: -4°F to 130°F (-20°C to 55°C)
Power Requirement: 13.0 Vac with supplied adaptor or 12-14 Vdc
Weight: 1 lb, 8 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: B5DFMR-70 Part 15
Number of Concurrent Systems: 12



	Microphone Transmitters		Belt Pack Transmitters	
	HT-200 Series	WT-55	WT-60	WT-80
Frequency Range	169-216 MHz	150-216 MHz	150-216 MHz	150-216 MHz
Audio Response	50-15,000 Hz \pm 1 dB	50-15,000 Hz \pm 2 dB	50-15,000 Hz \pm 1 dB	50-15,000 Hz \pm 1 dB
Max SPL	140 dB SPL	140 dB SPL	140 dB SPL	140 dB SPL
Compressor Type	2:1, NE-570	2:1, NE-570	2:1, NE-570	2:1, NE-570
Pre Emphasis	50 μ Sec	50 μ Sec	50 μ Sec	50 μ Sec
RF Frequency Stability	.005% Crystal	.005% Crystal	.005% Crystal	.005% Crystal
RF Power Output	45 Mw	50 Mw	50 Mw	50 Mw
Modulation	FM, 12 KHz Deviation	FM, 12 KHz Deviation	FM, 12 KHz Deviation	FM, 12 KHz Deviation
Harmonic & Spurious Emissions	30 dB below carrier	30 dB below carrier	30 dB below carrier	30 dB below carrier
Antenna Type	Internal omnidirectional	Pig tail omnidirectional	Pig tail omnidirectional	Pig tail omnidirectional
Battery Type	9 Volt Alkaline or 8.4 Volt NiCad	9 Volt Alkaline or 8.4 Volt NiCad	9 Volt Alkaline or 8.4 Volt NiCad	9 Volt Alkaline or 8.4 Volt NiCad
Battery Life (Alkaline) (NiCad)	10-12 Hours continuous use 3+ Hours continuous use	8-9 Hours continuous use 3+ Hours continuous use	8-9 Hours continuous use 3+ Hours continuous use	8-9 Hours continuous use 3+ Hours continuous use
Audio Input Type	—	Low Z, 100-10K ohm TA-4M, Dynamic or Electret	Low Z, 100-10K ohm TA-4M, Dynamic or Electret	Low Z, 100-10K ohm TA-4M, Dynamic or Electret
Audio Controls	Mic Level	Mic Level	Mic Level	Mic Level
Temperature Range	-4F (-20C) to 130F (55C)	-4F (-20C) to 130F (55C)	-4F (-20C) to 130F (55C)	-4F (-20C) to 130F (55C)
Size	Telex 65 head: 1.4" dia. x 9" (36mm x 229mm)	4" X 2.75" X 1" (102MM x 70 mm x 25mm)	2.4" X 3.5" X .9" (61mm x 89mm x 23mm)	2.25" X 3.25" X .75" (57mm x 83mm x 19mm)
Weight	Telex 65 head: 8 oz (227 g)	4 oz (113 g)	3 oz (85 g)	4 oz (113 g)
FCC Type Acceptance	Under parts 90 and 74	Under parts 90 and 74	Under parts 90 and 74	Under parts 90 and 74
FCC ID	B5DH202	B5DWT-50	B5DWT-60	B5DWT-80
Phantom Power	—	5V Reg; 9V Unreg	5V Reg; 9V Unreg	5V Reg; 9V Unreg

Ordering Information

The Telex FMR-70 is available as a component receiver to be used with several transmitter options. The FMR-70 is also available in various system configurations. Choose from systems with handheld or micro-pack lapel systems. All FMR-70 systems are backed by a full, three year warranty. For pricing and dealer locations, call Telex today.

Model	Description	Catalog Number
FMR-70	FMR-70 Receiver	71061-XXX
FMR-70L	FMR-70 Omni lapel system	71063-XXX
FMR-70C	FMR-70 Cardioid lapel system	71137-XXX
FMR-70H	FMR-70 Handheld system	71135-XXX

Recommended Transmitters

WT-55	Beltpack transmitter	71062-XXX
WT-60	Micropack beltpack transmitter	70881-XXX
WT-80	Metal micropack transmitter	70883-XXX
HT-200/65	Handheld transmitter with 65ELE condenser element	71124-XXX
HT-200/757	Handheld transmitter with EV ND-757 Neodymium element	71122-XXX

The last three digits (XXX) indicate frequency, consult price sheet for available options.

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• Southern Europe 49 9421-706-413, FAX 49 9421-706-378 • Eastern Europe 49 9421-706-418, FAX 49 9421-706-378 • United Kingdom 44-0-870-8404260, FAX 44-0-870-8404270

• Japan/Korea 81 3 3325 7900, FAX 81 3 3325 7789 • Hong Kong/China 852 2351 3628, FAX 852 2351 3329 • Singapore 65 746 8760, FAX 65 746 1206

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