



MX 02-H	2 Channel - Wireless Microphone System - Handheld Microphone
MX 04-H	4 Channel - Wireless Microphone System - Handheld Microphone
MX 08-H	8 Channel - Wireless Microphone System - Handheld Microphone



The MX-H Series from AEX System delivers dependable wireless audio performance for public address and voice alarm applications. With 2, 4, or 8-channel options, it ensures clear, intelligible announcements in auditoriums, transit hubs, and large public venues. Built with a durable full-alloy body, the handheld microphones are designed for long-term reliability. Operating on the UHF band with advanced DPLL technology, the MX-H Series minimizes

interference and offers up to 200 selectable channels. Features such as infrared auto-channel tracking, system lock, and a high-resolution LCD display simplify operation and monitoring, while XLR and 6.3mm outputs provide flexible integration with PAVA systems. With a coverage range of up to 80 meters, the MX-H Series ensures reliable voice delivery in critical environments.

- Scalable wireless system: MX 02 (2-channel), MX 04 (4-channel), MX 08 (8-channel) for PAVA applications.
- UHF 640.250–690MHz operation with wideband FM modulation and 200 selectable channels.
- $\pm 0.005\%$ frequency stability with advanced DPLL technology for interference minimization.
- 100dB dynamic range, >105dB signal-to-noise ratio, $\geq 0.5\%$ total harmonic distortion.
- Dual conversion superheterodyne receiver (1st IF 110MHz, 2nd IF 10.7MHz) for reliable reception.
- 80-meter coverage range in ideal conditions for critical voice delivery in large venues.
- Receiver sensitivity: 12dB V (80dB S/N) with 12–32dB V adjustment range.
- MX 02: 2×BNC antenna input; MX 04: 4×BNC antenna input; MX 08: 8×BNC antenna input.
- MX 02: 2×XLR balanced + 6.3mm unbalanced; MX 04: 4×XLR + 6.3mm; MX 08: 8×XLR + 6.3mm outputs.
- Handheld transmitter: Unidirectional dynamic microphone, -53dB $\pm$ 3dB sensitivity, 80Hz–10kHz response.
- 3mW/30mW transmission power with PLL phase-locked frequency synthesis and IR sync.
- 2×AA 1.5V batteries: >10 hours at 30mW, >15 hours at 3mW battery life.
- Infrared auto-channel tracking, system lock, high-resolution LCD display; ~280g handheld weight.



2 Units

MX 02-H



4 Units

MX 04-H



8 Units

MX 08-H



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Technical Specification (MX Receiver)

	MX 02-H	MX 04-H	MX 08-H
Operating Frequency	UHF 640.250MHz-690MHz (usable frequencies depend on local regulations e.g 800-850MHz)		
Modulation Mode	Wideband FM		
Channel Count	200		
Frequency Stability	±0.005%		
Dynamic Range	100dB		
Deviation	±45kHz		
Signal-to-Noise Ratio	>105dB		
Total Harmonic Distortion	<=0,5%		
Operating Distance	80m (ideal conditions)		
Operating Temperature	-10°C~+50°C		
Receiver Type	Dual Conversion Superhetrodyne		
Intermediate Frequency	1st IF: 110MHz, 2nd IF: 10.7MHz		
Antenna Input	2 x BNC / 50Ω	4 x BNC / 50Ω	8 x BNC / 50Ω
Sensitivity	12dB V (80dB S/N)		
Sensitivity Adjustment Range	12-32dB V		
Spurious Suppression	=>75dB		
Audio Output Level	+10dBV		
Audio Output Connectors	2 x XLR balanced, 6.3mm unbalanced	4 x XLR balanced, 6.3mm unbalanced	8 x XLR balanced, 6.3mm unbalanced
Power Supply	220VAC/50-60Hz, 12VDC/1A		
Operating Current	DC 12V, 330mA		
Weight	Approx. 1.4Kg	Approx. 1.8Kg	Approx. 2.3Kg

Technical Specification (Handheld Microphone)

	MX 02-H / MX 04-H / MX 08-H
Microphone Type	Dynamic
Directional Pattern	Unidirectional
Output Impedance	600Ω ±30%
Sensitivity	-53dB ±3dB (0dB=1V/Pa at 1kHz)
Frequency Response	80Hz-10kHz
Carrier Frequency Range	UHF 640.250MHz-690MHz (usable frequencies depend on local regulations e.g 800-850MHz)
Oscillation Mode	PLL phase-locked frequency synthesis
Transmission Power	3mW/30mW
Carrier Deviation	0.5kHz
Harmonic Radiation	More than 45dB below the main wave
Modulation Mode	FM modulation
Maximum Input Sound Pressure	-11dBV
Frequency Setting	IR Sync
Power Supply	2 x AA 1.5V alkaline batteries
Battery Life	>10 hours at 30mW, >15 hours at 3mW
Net Weight	Approx. 280g (excluding batteries)