

One Microphone That Performs Like Many.

MX396

Multi Element Boundary Microphone

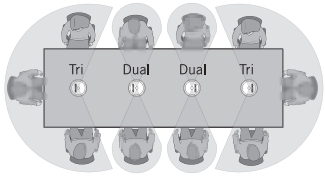
The Microflex® Multi-Element Boundary microphone delivers a unique and versatile tool for conference room installations. Clean and simple in appearance, Multi-Element Boundary mics come in two or three element configurations, combining the coverage of multiple microphones into one small, compact package.

- Multiple coverage patterns (see diagram below)
- Individual audio output for each element
- Bi-color status indicator
- Programmable mute switch
- TTL Logic LED input and TTL Logic switch output

Available Models

MX396 C-DUAL
Dual-Element Configuration

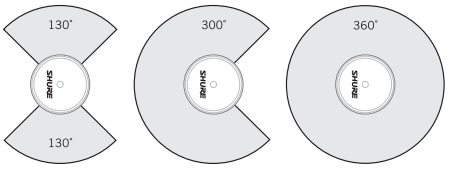
MX396 C-TRI
Tri-Element Configuration



Example of Boardroom Table Mic Placement Coverage



Side view



Cross-Table Coverage (Dual) | End-of-Table Coverage (Tri) | Center-of-Table Coverage (Tri)

Wireless. Limitless.

MX690

The Microflex Wireless Boundary microphone offers total freedom of placement with no holes to drill or cables to run for installation. It is the perfect solution for conference and meeting spaces where users demand flexibility and high performance. Compatible with Shure SLX® wireless systems, including the SLX4L receiver with logic output for applications requiring logic functionality.

- Sleek, low profile design
- Frequency agile, microprocessor controlled transmitter
- Bi-color status indicator
- IR link to SLX receiver for automatic frequency synchronization
- Programmable mute function
- Battery level indicator
- Operates on two AA batteries
- TTL Logic transmitter status and TTL Logic battery level signal when used with SLX4L wireless receiver

Available Models

MX690
Wireless Boundary Mic, Cardioid





Front view



Side view

Microflex Microphones Specifications (Note: All specifications are subject to change.)

	MICROFLEX Lavalier/Headset Microphones	MX200 Overhead Microphones	MX391/392/393 Boundary Microphones	MX395/396 Boundary Microphones	MX400 Gooseneck Microphones	MX690 Boundary Microphone
Type	Condenser (electret bias)	Condenser (electret bias)	Condenser (electret bias)	Condenser (electret bias)	Condenser (electret bias)	Condenser (electret bias)
Frequency Response	MX185/184/183: 50–17000 Hz MX150: 20–20000 Hz MX153: 20–20000 Hz	50–17000 Hz	50–17000 Hz	50–17000 Hz	50–17000 Hz	50–17000 Hz
Output Impedance	MX185/184/183: EIA rated at 150 Ω (170 Ω actual) MX150: 165.5 Ω MX153: N/A	180 Ω actual (EIA rated at 150 Ω)	EIA Rated at 150 Ω (180 Ω actual)	EIA Rated at 150 Ω (170 Ω actual)	EIA Rated at 150 (170 actual, MX405/410/415) (180 actual, MX412/418)	EIA Rated at 150 Ω (180 Ω actual)
Sensitivity (at 1 kHz, open circuit voltage)	MX183: –27.5 dB V/Pa (42.2 mV) MX184: –33.5 dB V/Pa (21.1 mV) MX185: –35.0 dB V/Pa (17. 8 mV) MX150: –39.0 dB V/Pa MX153: –41.0 dB V/Pa All settings –12 dB at 0 gain 1 Pascal = 94 dB SPL	Cardioid: –35.0 dB V/Pa (17.8 mV) Supercardioid: –33.5 dB V/Pa (21.1 mV) Omnidirectional: –27.5 dB V/Pa (42.2 mV) All values –12 dB at 0 gain 1 Pascal = 94 dB SPL	MX391 Cardioid: –29.6 dB V/Pa (33.5 mV) MX391 Supercardioid: –28.3 dB V/Pa (38.5 mV) MX391 Omnidirectional: –21.5 dB V/Pa (81.4 mV) MX392/393 Cardioid: –27.5 dB V/Pa (42.2 mV) MX392/393 Supercardioid: –26.5 dB V/Pa (47.3 mV) MX392/393 Omnidirectional: –22.0 dB V/Pa (79.4 mV) 1 Pascal = 94 dB SPL	MX395 Cardioid: –34 dB V/Pa (20 mV) MX395 Omnidirectional: –29 dB V/Pa (35.5 mV) MX395 Bidirectional: –35 dB V/Pa (17.8 mV) MX396: –35 dB V/Pa (18 mV) 1 Pascal = 94 dB SPL	Cardioid: –35 dB V/Pa (17.8 mV) Supercardioid: –33.5 dB V/Pa (21.1 mV) Omnidirectional: –27.5 dB V/Pa (42.2 mV) 1 Pascal=94 dB SPL	–33 dB V/Pa (33 mV) 1 Pascal=94 dB SPL
Maximum SPL (1 kHz at 1% THD, 1 k load)	MX183: 132.8 dB MX184: 138.8 dB MX185: 140.3 dB MX150: 129.5 dB MX153: 107 dB All settings +6 dB at 0 gain	Cardioid: 124.2 dB Supercardioid: 122.7 dB Omnidirectional: 116.7 dB	Cardioid: 118.8 dB Supercardioid: 117.5 dB Omnidirectional: 110.7 dB	MX395 Cardioid: 120 dB MX395 Omnidirectional: 115 dB MX395 Bidirectional: 121 dB MX396: 122 dB	MX405/410/415: Cardioid with MX400SMP: 121.1 dB Cardioid with MX400DP: 122 dB Supercardioid: with MX400SMP: 119.7 dB Supercardioid: with MX400DP: 120.5 dB MX412/418: Cardioid: 124.2 dB Supercardioid: 122.7 dB Omnidirectional: 116.7 dB	118.8 dB *For complete specifications on the MX690 and MX890 wireless transmitters, please visit www.shure.com.*
Equivalent Output Noise (A-weighted)	MX183: 23.7 dB SPL MX184: 29.7 dB SPL MX185: 31.2 dB SPL MX150: 31.0 dB SPL MX153: 24.9 dB SPL	Cardioid: 28.0 dB SPL Supercardioid: 26.5 dB SPL Omnidirectional: 20.5 dB SPL	Cardioid: 22.6 dB SPL Supercardioid: 21.3 dB SPL Omnidirectional: 14.5 dB SPL	MX395 Cardioid: 29 dB SPL MX395 Omnidirectional: 23 dB SPL MX395 Bidirectional: 27 dB SPL MX396: 30 dB SPL	Cardioid: 28 dB SPL Supercardioid: 26.5 dB SP L Omnidirectional: 20.5 dB SPL	22.6 dB SPL
Signal-to-Noise Ratio (referenced at 94 dB SPL at 1 kHz)	MX183: 70.3 dB MX184: 64.3 dB MX185: 62.8 dB MX150: 57.5 dB MX153: 60.0 dB	Cardioid: 66.0 dB Supercardioid: 67.5 dB Omnidirectional: 73.5 dB	Cardioid: 71.4 dB Supercardioid: 72.7 dB Omnidirectional: 79.5 dB	MX395 Cardioid: 65 dB MX395 Omnidirectional: 72 dB MX395 Bidirectional: 67 dB MX396: 64 dB	Cardioid: 66 dB Supercardioid: 67.5 dB Omnidirectional: 73.5 dB	71.4 dB
Dynamic Range (1 k load at 1 kHz)	MX185/184/183: 109.1 dB MX150: 92.5 dB MX153: 73.0 dB 100 dB at 0 gain	96.2 dB (100 dB at 0 gain)	96.2 dB	MX395 Cardioid: 91 dB MX395 Omnidirectional: 92 dB MX395 Bidirectional: 95 dB MX396: 92 dB	MX405/410/415: Cardioid with MX400SMP: 93.1 dB Cardioid with MX400DP: 94 dB Supercardioid with MX400SMP: 93.2 dB Supercardioid with MX400DP: 94 dB MX412/418: 96.2 dB 100 dB at 0 gain	96.2 dB
Power Requirements	11–52 Vdc phantom, 2.0 mA or 9V battery 0.8mA	11–52 Vdc phantom, 2.0 mA	11–52 Vdc phantom, 2.0 mA	MX395: 11–52 Vdc phantom, 2.0 mA MX395-LED: 48–52 Vdc phantom, 8.0 mA MX396: MX396/C-DUAL: 48–52 Vdc phantom, 10.0 mA MX396/C-TRI: 48–52 Vdc phantom, 12.0 mA	MX405/410/415: 48–52 Vdc phantom, 8.0 mA MX412/418: 11–52 Vdc phantom, 8.0 mA	3V (2 AA alkaline or rechargeable batteries)

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