

# A Microphone That Goes Above and Beyond.

## MX202

### Overhead Microphones

Microflex® Overhead microphones capture sound from speakers, choirs, and stages conveniently and unobtrusively from above. Compact and flexible, each feature a four-inch gooseneck and versatile condenser cartridges for accurate sound reproduction in any setting. The available preamp options offer easy installation in ceilings or microphone stands, and provide accurate, reliable sound reproduction.

- Cardioid and supercardioid polar patterns
- Interchangeable condenser cartridges
- Inline or plate mount preamp
- Optional desk stand also available



#### Available Models

##### MX202B C/S/N

Black In-line preamplifier, stand adapter

##### MX202W C/S/N

White In-line preamplifier, stand adapter

##### MX202BP C/S/N

Black Plate-mounted preamplifier

##### MX202WP C/S/N

White Plate-mounted preamplifier

#### Mounting Options

##### A202BB

Microphone Desk/Table Stand

C = Cardioid, S = Supercardioid, N = No Cartridge



## Freedom To Move, Freedom To Hear.

### MX150

### MX183/MX184/MX185

### Lavalier Microphones

Attached to a tie or lapel, Microflex Lavalier microphones offer freedom of movement to any situation involving voice reproduction. As stylish as they are convenient, lavaliers are available in a wide array of sizes, including two subminiature microphone models, and are compatible with all Shure wireless platforms.

- Cardioid, supercardioid and omnidirectional polar patterns
- Phantom-powered preamp
- Exceptionally low handling noise
- Includes tie clip, dual tie clip and snap-fit windscreen



#### Available Models

##### MX150/O

Subminiature Omnidirectional

##### MX150/C

Subminiature Cardioid

##### MX180/N

No Cartridge

##### MX183

Omnidirectional

##### MX184

Supercardioid

##### MX185

Cardioid

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

	<b>MICROFLEX</b> Lavalier/Headset Microphones	<b>MX200</b> Overhead Microphones	<b>MX391/392/393</b> Boundary Microphones	<b>MX395/396</b> Boundary Microphones	<b>MX400</b> Gooseneck Microphones	<b>MX690</b> Boundary Microphone
<b>Type</b>	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )
<b>Frequency Response</b>	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
<b>Output Impedance</b>	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)
<b>Sensitivity (at 1 kHz, open circuit voltage)</b>	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
<b>Maximum SPL (1 kHz at 1% THD, 1 k load)</b>	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  <i>For complete specifications on the MX690 and MX890 wireless transmitters, please visit <a href="http://www.shure.com">www.shure.com</a>.</i>
<b>Equivalent Output Noise (A-weighted)</b>	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
<b>Signal-to-Noise Ratio (referenced at 94 dB SPL at 1 kHz)</b>	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
<b>Dynamic Range (1 k load at 1 kHz)</b>	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
<b>Power Requirements</b>	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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