

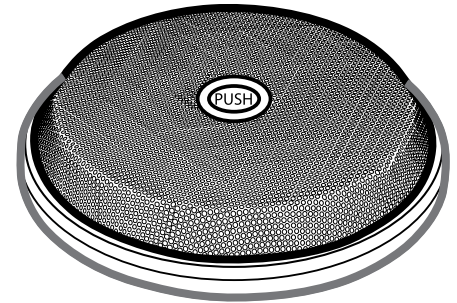
# MX396 Multi-Element Boundary Microphones

## Overview

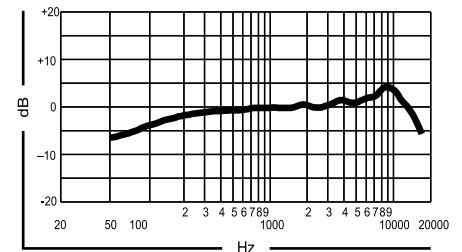
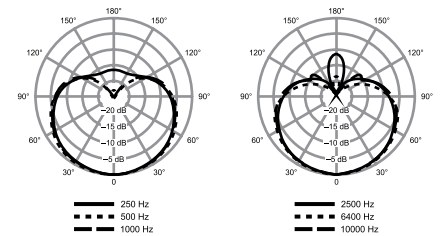
Microflex Multi-Element Boundary microphones deliver a unique and versatile tool for conference room installations. Clean and simple in appearance, Multi-Element Boundary mics come in two or three element configurations, combining the coverage of multiple microphones into one small, compact package.

## Specifications (subject to change)

Type	Condenser (electret bias)
Frequency Response	50–17000 Hz
Output Impedance	EIA Rated at 150 Ω (170 Ω actual)
Output Configuration	Active Balanced
Sensitivity (at 1 kHz, open circuit voltage)	-35 dBV/Pa (18 mV)
Maximum SPL (1 kHz at 1% THD, 1 kΩ load)	122 dB
Equivalent Output Noise (A-weighted)	28 dB SPL
Signal-to-Noise Ratio (referenced at 94 dB SPL at 1 kHz)	66 dB
Dynamic Range (1 kΩ load at 1 kHz)	94 dB
Common Mode Rejection (10 Hz to 100 kHz)	45 dB minimum
Preamplifier Output Clipping Level (1% THD)	-7 dBV (0.5 V)
Weight	Net: 0.587 kg (1.29 lb) Packaged: 0.916 kg (2.02 lbs)
Logic Connections	LED IN: Active low ( $\leq 1.0V$ ), sinks up to 20mA, TTL compatible. Absolute maximum voltage: -0.7V to 50V (up to 50V through 3kΩ). LOGIC OUT: Active low ( $\leq 1.0V$ ), sinks up to 20mA, TTL compatible. Absolute maximum voltage: -0.7V to 50V (up to 50V through 3kΩ).
Mute Switch Attenuation	-50 dB minimum
Cable	6.1 m (20 ft) attached unterminated cable with three shielded audio pairs and three shielded conductors for logic control.
Environmental Conditions	Operating Temperature: -18–57 °C (0–135 °F) Storage Temperature: -29–74 °C (-20–165 °F) Relative Humidity: 0–95%
Power Requirements	MX396/C-DUAL: 48–52 Vdc phantom, 10.0 mA MX396/C-TRI: 48–52 Vdc phantom, 12.0 mA



MX396 Multi-Element Boundary Mic  
Diam. x H: 4 5/16" (110mm) x 15/16" (24mm)



## Available Models

<b>MX396/C-DUAL</b>	Dual-Element 0-180 Degrees, back or bottom exit cable, mute output, LED input
<b>MX396/C-TRI</b>	Tri-Element 90-0-90 mic, adjustable to 120-120-120 degrees, back or bottom exit cable, mute output, LED input

## Furnished Accessories/Replacement Parts

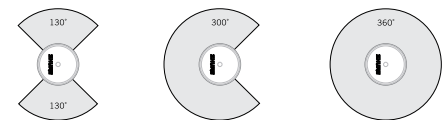
<b>65A2190</b>	Fastening Wingnut	<b>R185B</b>	Cardioid Replacement Cartridge (x 1)
<b>31A2165</b>	Fastening Tube	<b>65A2166</b>	Rubber Isolation Rings

## Architectural Specifications

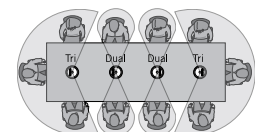
**MX396/C Dual** - The microphone shall be a surface mounted, black electret condenser microphone with two cardioid polar pattern elements, each with individual channel output. The microphone shall include a logic enabled, bi-colored status indicator ring and programmable mute switch. The microphone shall be resistant to RF interference from portable mobile and handheld devices. The frequency range shall be 50Hz to 17KHz and the sensitivity of each individual element, 18 mV/Pa.

**MX396/C Tri** - The microphone shall be a surface mounted, black electret condenser microphone with three cardioid polar pattern elements, each with individual channel output. The microphone shall include a logic enabled, bi-colored status indicator ring and programmable mute switch. The microphone shall be resistant to RF interference from portable mobile and handheld devices. The frequency range shall be 50Hz to 17KHz and the sensitivity of each individual element, 18 mV/Pa.

Cross-Table Coverage (Dual)    End-Of-Table Coverage (Tri)    Center-Of-Table Coverage (Tri)



Example of Boardroom Table Mic Placement Coverage



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