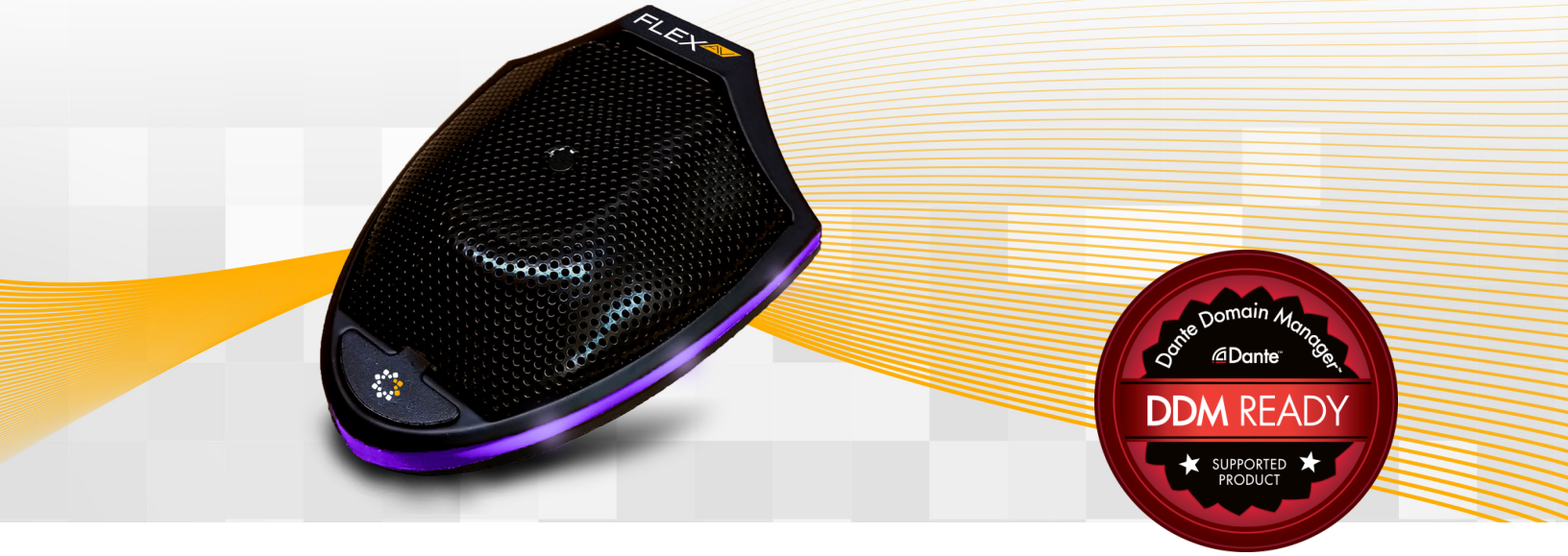
FM-19D // DANTE-ENABLED AUDIO OVER ETHERNET MICROPHONE



BEAMFORMING MICROPHONE, USER INTERFACE, AND MORE...

The FM-19D boundary-style conferencing interface from Flex AV pairs Dante professional digital audio networking technologies with live command-and-control features to deliver flexible, high quality digital audio and conferencing functions for the most demanding integration scenarios.

One Dante interface can be utilized for practically any audio capture and sound reinforcement design challenge. The FM-19D showcases a host of features designed to extend the possibilities to any integrator. Combining audio capture, user interaction, visual indicators, network controls, and acoustical feedback to provide a unique conferencing interface, each FM-19D can be configured independently via the Flex Designer software. Add the fact that the FM-19D is Dante Domain Manager ready with the newest 4.0 firmware, and you have a solid choice for any future integration.

AUDIO TECHNOLOGY

The FM-19D utilizes multiple digital MEMS microphones to provide a more even frequency response, which in turn provides a more stable performance than analog ECM microphones. This design allows integrators to remotely switch between six different beamformed polar patterns without the need to physically change the device itself. Patterns can be selected independently on each interface, allowing for optimal audio configuration in any environment. Each interface has an onboard DSP which allows each microphone to be accessed and acoustically calibrated as needed to deliver exceptional speech intelligibility.

NETWORK CONTROLS

Utilizing the Dante-embedded control layer, the interface becomes a network addressable component in the programmer's toolkit for the live command and control of any feature, making the FM-19D the integrator's preferred boundary microphone for whatever the situation requires.

CUSTOMIZABLE USER INTERACTION

In addition to the traditional push-to-talk, push-to-mute, momentary and latching features, integrators can configure the capacitive touch button to trigger any action within their solutions. This event-based protocol allows you to track when the button is pressed, how long it is pressed, and when it is released. With these features, the FM-19D becomes the ideal solution for question and answer, voting, and roll-call scenarios.

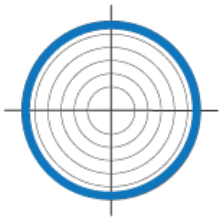
VISUAL INDICATORS

Any color and pattern combination can be displayed using the high-visibility LEDs along the base of the FM-19D. When paired with the capabilities of the capacitive-touch button, this device becomes a truly interactive data point for your solution. Examples would include a visual countdown timer, system record states or microphone mute states, etc.

AUDIBLE RESPONSE FUNCTIONALITY

A built-in electro-mechanical buzzer enables integrators to play audible tones for user feedback and microphone self-test scenarios. This functionality can be leveraged for success/failure indication, situational notifications, automated setup, system start up testing functionality, and more.

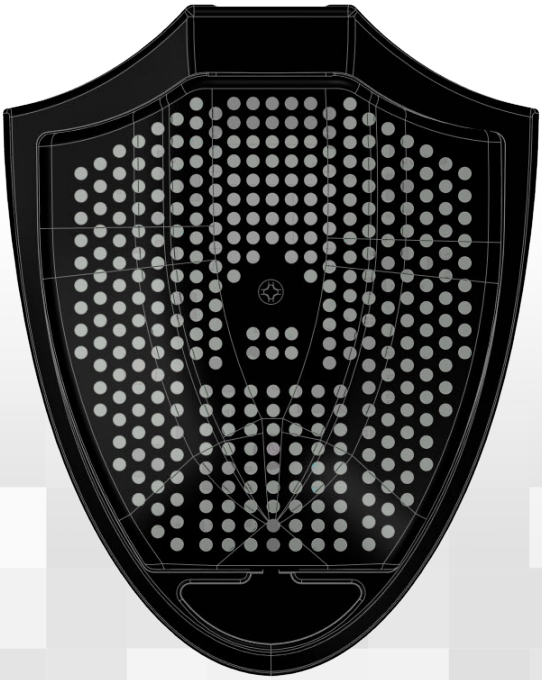
Omni-Directional



360º

Super-Cardioid

105º



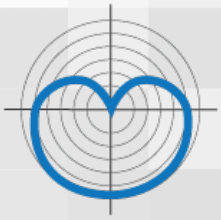
Sub-Cardioid

180º

Hyper-Cardioid

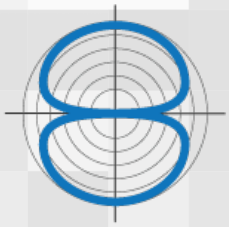
110º

Cardioid



120º

Bi-Directional



90º

Parameter	Specification	Conditions/Comments
Operating Principle	MEMS microphone	
Polar Pattern	Electronically switchable	6 preset patterns - Omni-directional, Sub-Cardioid, Cardioid, Super-Cardioid, Hyper-Cardioid, Bi-Directional
Frequency Response	100Hz - 14kHz	@ -3db (ref 1kHz)
Signal to Noise Ratio	64dB(A)	94dB SPL @ 1 kHz, A-weighted
THD	0.25%	94dB SPL @ 1 kHz
Audio BPF	8 settings	63Hz-200Hz-350Hz - OFF 3.4kHz-6.3kHz-12kHz - OFF
Maximum SPL	120dB SPL	@ 1% THD, 1KHz
Capacitive Touch Button		Programmable functions per software settings
Power Requirements	PoE IEEE802.3af	
Power Consumption	4W 2W	All LED ON @ max brightness All LED OFF
Connector	RJ45 Shielded	
Dimensions	105 x 83 x 25.4mm (4.13" x 2.27" x 1.0")	
Net Weight	250 grams (8 oz)	