



# Microflex<sup>®</sup> Advance<sup>™</sup> Table Array Microphone Specifications





All specifications measured from cardioid polar pattern. Values for all patterns are within  $\pm$  3 dB of these specifications unless otherwise noted.

#### Polar Pattern

All channels independently adjustable

Cardioid, Hypercardioid, Supercardioid, Toroid, Omnidirectional, Bidirectional

#### **Connector Type**

RJ45

# Power Requirements

Power over Ethernet (PoE), Class 0

#### **Power Consumption**

4W, maximum

#### Weight

362 g (0.8 lbs)

#### Dimensions

 $H \times W \times D$ 

 $3.6 \times 13.4 \times 13.4 \text{ cm} (1.4 \times 5.3 \times 5.3 \text{ in.})$ 

#### control application

HTML5 Browser-based

#### **Operating Temperature Range**

-6.7°C (20°F) to 40°C (104°F)

#### Storage Temperature Range

–29°C (-20°F) to 74°C (165°F)

# **Audio**

### Frequency Response

100 to 20,000 Hz

# **Dante Digital Output**

Channel Count	total channels (4 independent transmit channels, 1 Automatic mixing ansmit channel)		
Sampling Rate	48 kHz		
Bit Depth	24		

#### Sensitivity

at 1 kHz, , -15 dB Gain Setting

-21 dBFS/Pa

#### Maximum SPL

1 kHz at 1% THD, -15 dB Gain Setting

115.2 dB SPL

#### Signal-To-Noise Ratio

Ref. 94 dB SPL at 1 kHz, -15 dB Gain Setting

Cardioid	75 dB
Toroid	67 dB

#### Latency

Not including Dante latency

<1 ms

#### Self Noise

-15 dB Gain Setting

Cardioid	19.2 dB SPL-A
Toroid	26.8 dB SPL-A

#### Dynamic Range

-15 dB Gain Setting

Cardioid	96 dB	
Toroid	90 dB SPL	

#### **Built-in Digital Signal Processing**

Per Channel	Equalizer (4-band Parametric), Mute, Gain (140 dB range)
System	Automatic mixing, Low-Cut Filter (-12 dB/octave @150 Hz)

Assignable to one channel at a time

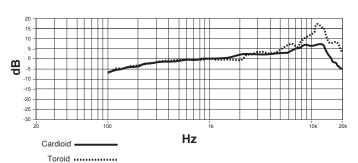
# **Networking**

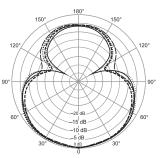
#### **Cable Requirements**

Cat 5e or higher (shielded cable recommended)

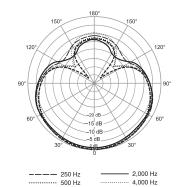
# Frequency Response

Frequency response measured from a distance of 2 feet (61 cm).



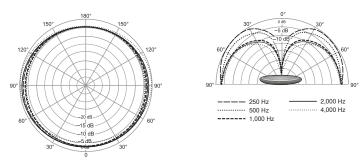




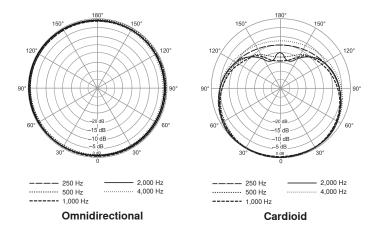


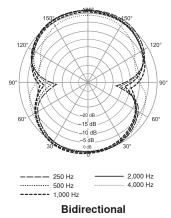
Hypercardioid

Supercardioid



Toroid





# IP Ports and Protocols

## **Shure Control**

Port	TCP/UDP	Protocol	Description Factory Default	
21	tcp	FTP	Required for firmware updates (otherwise closed)	
22	tcp	SSH	Not supported	Closed
23	tcp	Telnet	Standard console Close interface	
68	udp	DHCP	Dynamic Host Configuration Protocol	Open
80*	tcp	HTTP	Required to launch embedded web server	Open
427	tcp/udp	SLP <sup>†</sup>	Required for inter-device communication	Open
443	tcp	HTTPS	Not supported	Closed
161	tcp	SNMP	Not supported	Closed
162	tcp	SNMP	Not supported Closed	
2202	tcp	ASCII	Required for 3rd party Open control strings	
5353	udp	mDNS <sup>†</sup>	Required for device Open discovery	
5568	udp	SDT†	Required for inter-device Communication	
8023	tcp	Telnet	Debug console interface Passwor	
8180*	tcp	HTML	Required for web Open application	
8427	udp	Multcast SLP†	Required for inter-device Open communication	
64000	tcp	Telnet	Required for Shure Open firmware update	

## Dante Audio & Controller

Port	TCP/UDP	Protocol	Description
162	udp	SNMP	Used by Dante
[319-320]*	udp	PTP <sup>†</sup>	Dante clocking
2203	udp	Custom	Required for packet bridge
4321, 14336-14600	udp	Dante	Dante audio
[4440, 4444, 4455]*	udp	Dante	Dante audio routing
5353	udp	mDNS <sup>†</sup>	Used by Dante
[8700-8706, 8800]*	udp	Dante	Dante Control and Monitoring
8751	udp	Dante	Dante Controller
16000-65536	udp	Dante	Used by Dante

<sup>\*</sup>These ports must be open on the PC or control system to access the device through a firewall.

 $<sup>^\</sup>dagger \text{These}$  protocols require multicast. Ensure multicast has been correctly configured for your network.