



# MXA920

## Specifications

Specifications for Shure MXA920-S and MXA920-R ceiling array microphones.  
Version: 0.1 (2022-D)

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# MXA920

## Specifications

### General

#### Coverage Type

Automatic or steerable

#### Power Requirements

Power over Ethernet (PoE), Class 0

#### Power Consumption

10.1 W maximum

#### Control Software

Designer or web application

#### Plenum Rating

<b>MXA920-S</b>	UL2043 (Suitable for Air Handling Spaces)
<b>MXA920-R</b>	Not rated

#### Dust Protection

IEC 60529 IP5X Dust Protected

#### 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)

### Networking

#### Cable Requirements

Cat5e or higher (shielded cable recommended)

#### Connector Type

RJ45

### Audio

#### AES67 or Dante Digital Output

<b>Channel Count</b>	Automatic coverage on	2 total channels (1 output, 1 AEC reference in channel)
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	<b>Automatic coverage off</b>	10 total channels (8 independent transmit channels, 1 automix output, 1 AEC reference in channel)
<b>Sampling Rate</b>		48 kHz
<b>Bit Depth</b>		24

### Sensitivity

at 1 kHz

-1.74 dBFS/Pa

### Maximum SPL

Relative to 0 dBFS overload

95.74 dB SPL

### Signal-to-Noise Ratio

Ref. 94 dB SPL at 1 kHz

75.76 dB A-weighted

### Latency

Does not include Dante latency

<b>Direct outputs (Automatic coverage off)</b>	15.9 ms
<b>Automix output (Includes IntelliMix processing)</b>	26.6 ms

### Self Noise

18.24 dB SPL-A

### Dynamic Range

77.5 dB

### Digital Signal Processing

Automatic mixing, acoustic echo cancellation (AEC), noise reduction, automatic gain control, compressor, delay, equalizer (4-band parametric), mute, gain (140 dB range)

### Acoustic Echo Cancellation Tail Length

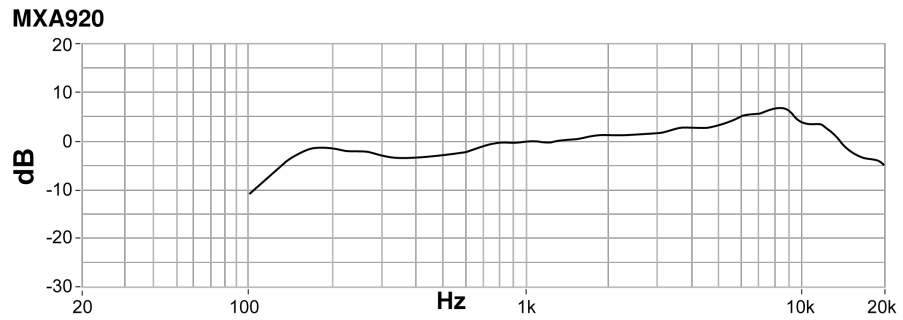
Up to 250 ms

### Frequency Response

125 Hz to 20,000 Hz

## MXA920 Frequency Response

Frequency response measured directly on-axis from a distance of 6 feet (1.83 m).



## Dimensions

### Weight

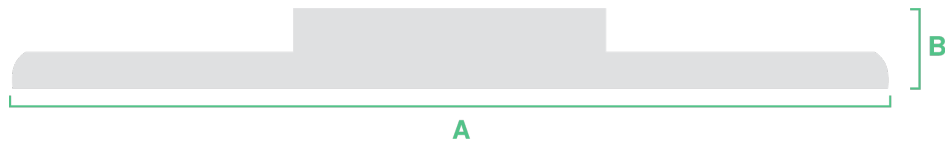
- MXA920-S: 11.8 lbs (5.4 kg)
- MXA920-R: 12.7 lbs (5.8 kg)

### MXA920-S



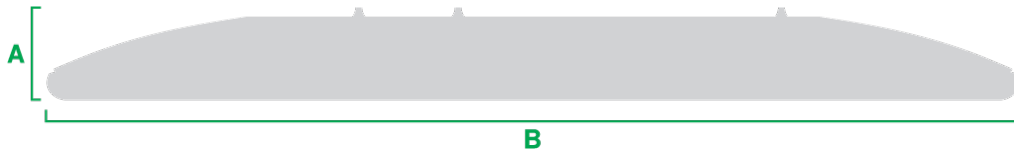
- A (Microphone flange): 0.41 in. (10.5 mm)
- B (Edge to edge): 23.77 in. (603.8 mm)
- C (Height): 2.15 in. (54.69 mm)

### MXA920-S-60CM



- A (Edge to edge): 23.38 in. (593.8 mm)
- B (Height): 2.15 in. (54.69 mm)

## MXA920-R



- A (Height to top of eyelets): 2.4 in. (61.3 mm)
- B (Outer diameter): 25 in. (635.4 mm)



# ANIUSB-MATRIX

Version: 0 (2020-A)

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# ANIUSB-MATRIX

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## Specifications

### General

#### Analog Connections

<b>Input</b>	(1) 3-pin block connector (Active Balanced)
<b>Output</b>	(1) 3-pin block connector (Impedance Balanced)

#### USB Connections

(1) USB 2.0, Type B

Single port carries 1 input and 1 output channel (Summed mono)

#### Network Connections (Dante Digital Audio)

(1) RJ45

4 input channels, 2 output channels

#### Polarity

Non-inverting, any input to any output

#### Power Requirements

Power over Ethernet (PoE), Class 0. (PoE Plus compatible).

#### Power Consumption

6.5W, maximum

#### Weight

668 g (1.5 lbs)

#### Dimensions

H x W x D

4 x 14 x 12.8 cm (1.6 x 5.5 x 5.0 in.)

#### Control Software

Shure Designer

#### 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)

## Thermal Power Dissipation

<b>Maximum</b>	6.8W (23.0BTU/hr)
<b>typical</b>	6.0W (20.8BTU/hr)

## Audio

## Frequency Response

+1, -1.5 dB

20 to 20,000 Hz

## Dante Digital Audio

<b>Sampling Rate</b>	48 kHz
<b>Bit Depth</b>	24

## USB Audio

<b>Sampling Rate</b>	48 kHz
<b>Bit Depth</b>	16, 24

## Latency

<b>Does not include Dante latency</b>	<b>Analog to Analog</b>	0.98 ms
	<b>Analog to Dante</b>	0.39 ms
	<b>Dante to Analog</b>	0.72 ms
	<b>Dante to Dante</b>	0.14 ms

## Dynamic Range

20 Hz to 20 kHz, A-weighted, typical

<b>Analog-to-Dante</b>	113 dB
<b>Dante-to-Analog</b>	117 dB

## Equivalent Input Noise

20 Hz to 20 kHz, A-weighted, input terminated with 150Ω

<b>Line</b>	-86 dBV
<b>Aux</b>	-98 dBV

## Total Harmonic Distortion

@ 1 kHz, 0 dBV Input, 0 dB analog gain

&lt;0.05%

## Common Mode Rejection Ratio

150Ω balanced source @ 1 kHz

&gt;70 dB

## Impedance

10.6 kΩ

### Input Clipping Level

<b>Line</b>	+27 dBV
<b>Aux</b>	+15 dBV

### Output Clipping Level

<b>Line</b>	+20 dBV
<b>Aux</b>	+0 dBV
<b>Mic</b>	-26 dBV

### Built-in Digital Signal Processing

<b>Per Channel</b>	Equalizer (4-band Parametric, Analog and USB output channels only), Mute, Limiter, Gain (140 dB range)
<b>System</b>	Matrix mixer

## Networking

### Cable Requirements

Cat 5e or higher (shielded cable recommended)