



# MSolution MS-SP8 Digital Array Microphone User Guide

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**MSolution MS-SP8 Digital Array Microphone**



## Product Information

The MS-SP8 is a digital array microphone that features embedded architecture, beam forming, professional digital audio processing, and an 8-meter long-distance pickup. It is designed to provide automatic voice tracking and full-duplex interaction. The microphone has a small and exquisite appearance, 32kHz broadband sampling, and built-in intelligent audio algorithms such as automatic noise reduction, echo cancellation, and automatic gain control.

## Product Specifications

### Audio Parameters

- Microphone Type: Digital Array Microphone
- Microphone Array: Built-in 7 microphone arrays to form a circular microphone array
- Sensitivity: -26 dBFS
- Signal Noise Ratio: > 80 dB(A)
- Frequency Response: 20Hz – 16kHz
- Sampling Rate: 32K sampling, high definition broadband audio
- Pickup Distance: 8m
- USB Protocol: Support UAC
- Automatic Echo Cancellation (AEC): Support
- Automatic Noise Suppression (ANS): Support
- Automatic Gain Control (AGC): Support

### Hardware Interface

- **Audio Input:** 1 x 3.5mm Line In
- **Audio Output:** 2 x 3.5mm Line Out
- **USB Interface:** Support UAC 1.0 protocol

### General Specification

- Power Input: USB 5V
- Dimension: 130mm x H 33mm

## Product Usage Instructions

### Step 1: Unboxing the MS-SP8 Digital Array Microphone

Ensure that you have all the items listed in the packing list:

- Digital Array Microphone
- USB Cable
- 3.5mm Audio Cable
- Quick Start Quality Card

### Step 2: Appearance and Interface

The MS-SP8 Digital Array Microphone has four interfaces:

1. AEC-REF: Signal input interface, input remote reference signal.
2. SPK-OUT: Audio signal output interface, output to the speaker.
3. AEC-OUT: Signal output interface, output to remote equipment.
4. USB: USB interface is used to connect USB devices and charge the microphone.

### **Step 3: Product Installation**

The MS-SP8 Digital Array Microphone can be installed using two methods:

#### **Hoisting Method**

1. Drill holes in the ceiling where you want to install the microphone.
2. Install expansion bolts into the holes.
3. Attach the mounting bracket to the expansion bolts.
4. Screw lock the mounting bracket to secure it in place.
5. Install the machine onto the mounting bracket.

#### **Wall Mounting Method**

1. Drill holes in the wall where you want to install the microphone.
2. Install expansion bolts into the holes.
3. Attach the mounting bracket to the expansion bolts.
4. Screw lock the mounting bracket to secure it in place.
5. Install the machine onto the mounting bracket.

### **Step 4: Network Application**

#### **Analog Connection (3.5mm Interface)**

The MS-SP8 Digital Array Microphone can be connected to a local or remote classroom for sound reinforcement. It can also be connected to a video interactive terminal recording host for recording purposes.

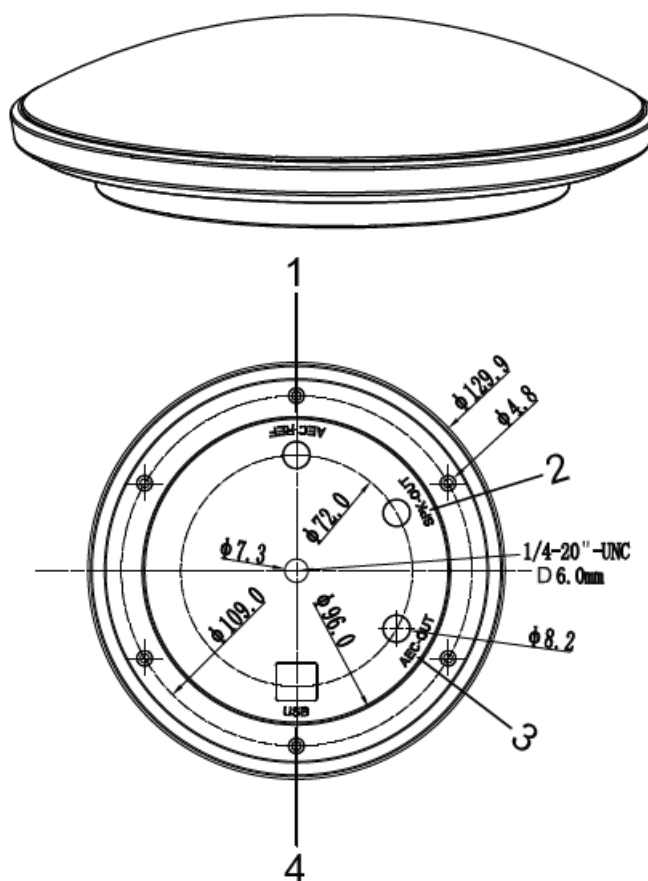
#### **Digital Connection (USB Interface)**

The MS-SP8 Digital Array Microphone can be connected to a local or remote classroom for sound reinforcement. It can also be connected to a video interactive terminal recording host for recording purposes. If you have any questions or concerns about the installation or usage of the MS-SP8 Digital Array Microphone, please contact [support@m4sol.com](mailto:support@m4sol.com) or visit [www.m4sol.com](http://www.m4sol.com) for more information.

### **Packing List**

Item	Quantity
Digital Array Microphone	1
USB Cable	1
3.5mm Audio Cable	1
Quick Start	1
Quality Card	1

## Appearance and Interface



No.	Name	Function
1	AEC-REF	Signal input interface, input remote reference signal.
2	SPK-OUT	Audio signal output interface, output to the speaker.
3	AEC-OUT	Signal output interface, output to remote equipment.
4	USB	USB interface is used to connect USB devices and charge the microphone.

## Product Feature

This product is a digital array microphone that adopts embedded architecture, beam forming, professional digital audio processing, 8 meters long distance pickup, and can stably realize automatic voice tracking and full-duplex interaction. The appearance of the product is small and exquisite, 32kHz broadband sampling, built-in intelligent audio algorithms such as automatic noise reduction, echo cancellation, automatic gain, etc.,

eliminates noise, suppresses reverberation and echo interference, and has low requirements for the sound environment. The equipment is plug and play, and configuration is free. Debugging, easy to use. Digital Microphone Array, Long Distance Voice Pickup Digital microphone array, 8-meter distance voice pickup. A hands-free lecture and presentation solution. Intelligent Voice Tracking Adaptive blind beamforming technology, automatic speaker alignment and speech reinforcement, to prevent from interference and to keep speech clear.

Multiple Audio Algorithms, High Quality of Sound Built-in multiple audio algorithms can suppress the acoustic reverberation in the classroom, reduce environmental noise, remove echo and howling, double-talk without suppression, and provide a comfortable listening experience. Simplified Installation, Plug and Play Equipped with standard USB2.0 and 3.5mm audio interfaces, the device is plug and play, no professional tuning is required, installation and maintenance are convenient, and it can meet the needs of digital and analog audio dual-mode applications in the classroom. Easy Change the Appearance, Invisible Application It adopts the technology of hot laminating and wrapping cloth to change the appearance color and pattern more conveniently. With natural visual effects, it adapts to all types of classroom decoration style, and realizes the Invisible application.

## WARNING

This is Class A product. In the living environment, this product may cause radio interference. In this case, users may be required to take practical measures against interference.

## Product Specification



Audio Parameters	
Microphone Type	Digital Array Microphone

Microphone Array	Built-in 7 microphone arrays to form a circular microphone array
Sensitivity	-26 dBFS
Signal Noise Ratio	> 80 dB(A)
Frequency Response	20Hz – 16kHz
Sampling Rate	32K sampling, high definition broadband audio
Pickup Distance	8m
USB Protocol	Support UAC
Automatic Echo Cancellation (AEC)	Support
Automatic Noise Suppression (ANS)	Support
Automatic Gain Control (AGC)	Support
<b>Hardware Interface</b>	
Audio Input	1 x 3.5mm Line In
Audio Output	2 x 3.5mm Line Out
USB Interface	Support UAC 1.0 protocol
<b>General Specification</b>	



- [support@m4sol.com](mailto:support@m4sol.com)
- [www.m4sol.com](http://www.m4sol.com)

Documents / Resources

 User Guide MS-SP8 Digital Array Microphone 	<a href="#">MSolution MS-SP8 Digital Array Microphone</a> [pdf] User Guide MS-SP8 Digital Array Microphone, MS-SP8, Digital Array Microphone, Array Microphone, Microphone
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References

-  [MSolutions - Pro AV Solutions, HDBaseT Products and Tools!](#)