

RM80

# Hands-free Microphone for Sound Reinforcement

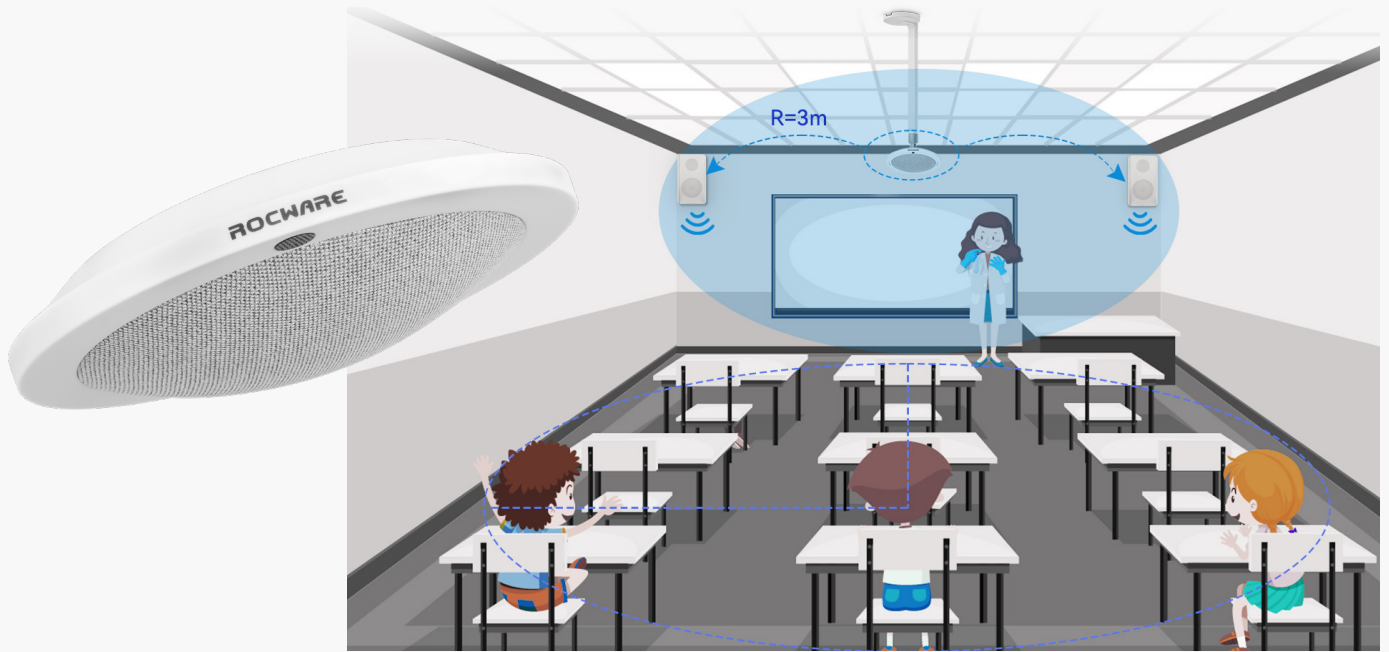


Rocware RM80 is a hands-free microphone for sound reinforcement. It's a more healthy way to use a microphone. 3 meters long-distance pickup, has stability to achieve automatic voice tracking and full duplex interaction. Contactless and less risk of infection, protect ears and throat, less radioactive, and zero-configuration due to our advanced built-in algorithms.

According to different scenarios, we offer two versions to choose from:

### RM80 V1 Microphone:

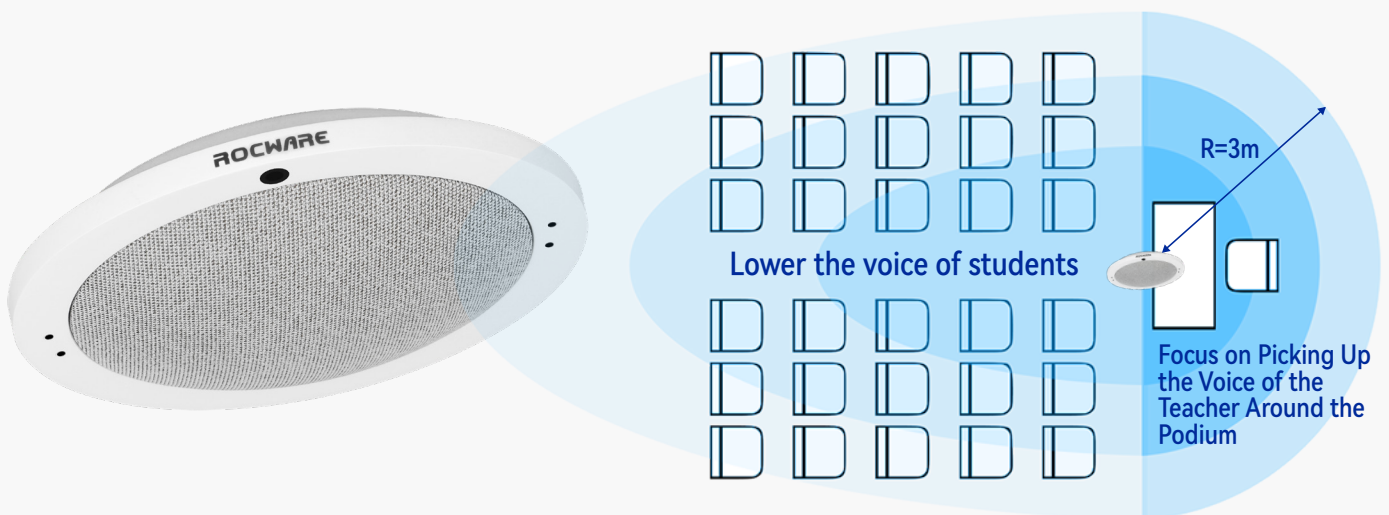
featuring six omnidirectional microphones arranged in a circular array, enabling 360° clear sound pickup within a 3m radius without the need for any additional devices. It is ideal for group discussions and provides uniform sound reinforcement for the entire area.



3m (360° omnidirectional pickup)

### RM80 V2 Microphone:

equipped with two MEMS microphone arrays, enabling clear sound pickup in a targeted area within a 3m radius while reducing noise interference from the surrounding areas. It is suitable for regular classroom sound amplification during teaching sessions.



The Best Pick-up Range of 3m

# Main Features

## Hands-free Solution for Sound Reinforcement

A convenient and contactless solution for lectures and presentations, no need to hold the wireless microphone or to attach the lavalier microphone on lecturer, free from all these restrictions, reducing infection risks with hygienic and contactless operation.



### Lavalier microphone

Require a physical edge of clothing to attach to, Battery maintenance, easy to misplace.



### Holding Microphone

Requires to be held in the hand, battery maintenance.



### Rocware RM80 Digital Microphone

Hands-free, Zero Configuration, Free Walk Around, Powered over USB2.0

## Ultra-low latency

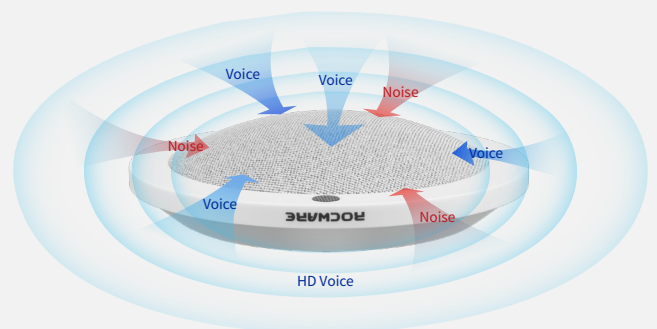
The latency for the built-in processor to deal with pickup voice is less than 18ms, which humans ears won't even notice. Thanks to Rocware's audio expert, this latency is ultra-low compare to other competing microphones in the world. Thus to achieve simultaneous sound reinforcement.



<18ms

## Noise Reduction

Support Howling suppression, reverberation, intelligent noise reduction and automatic gain control to enable the clear hearing in noisy environment.



## Intelligent voice tracking

Expand the voice pickup range for lecturer or teacher to move freely in the room, one microphone is enough for a typical classroom, voice can be heard clearly on both sides, which makes it a reliable solution for better interaction and communication.

## Built-in Audio Processing Module

Integrated with powerful digital signal processing module, no need for additional rack-mounted Processor.



## Easy Setup

The only thing you need to take care of is to make sure the distance between the microphone and loudspeakers should be more than 3m.

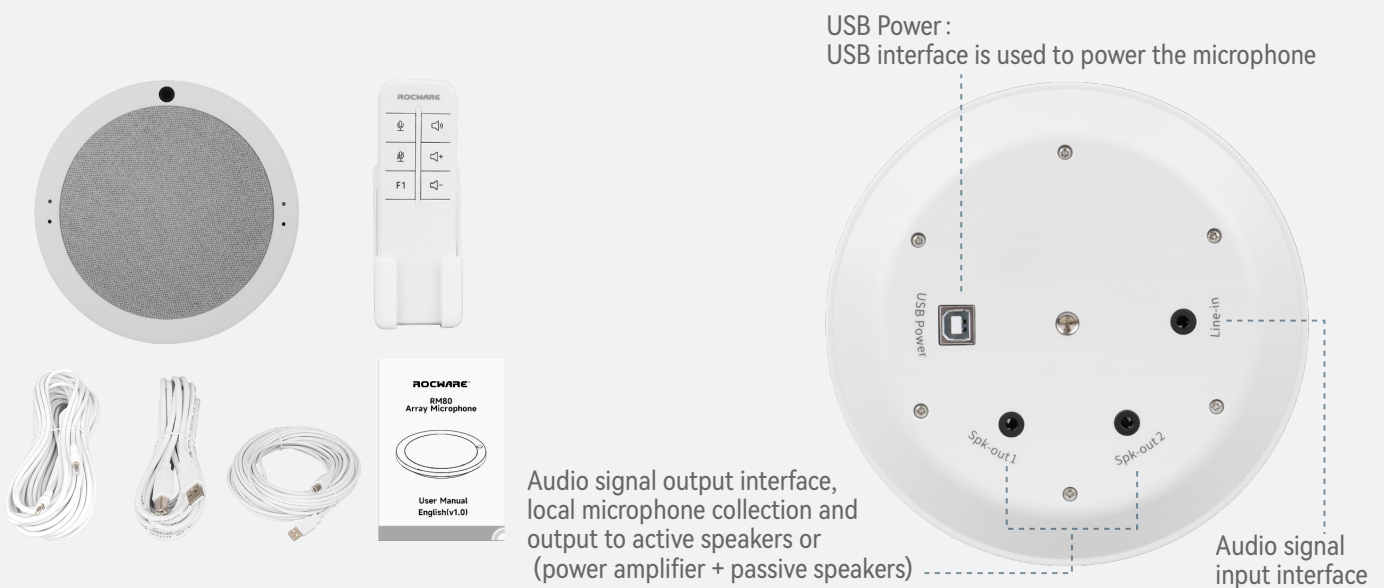


## Remote Control

Support remote control function, you can switch the RM80 microphone freely and adjust the volume level easily.



## Product Interface

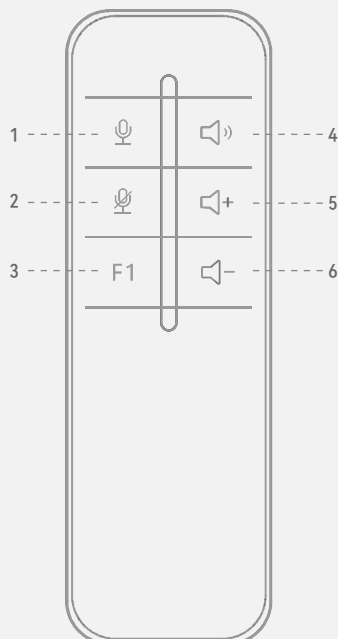


## Remote Control

1、 Turn on the microphone's amplification function, and there will be voice announcements when pressed.

2、 Turn off the microphone's amplification function, and there will be voice announcements when pressed.

3、 Reserved function (not defined yet), there will be a music prompt when pressed.

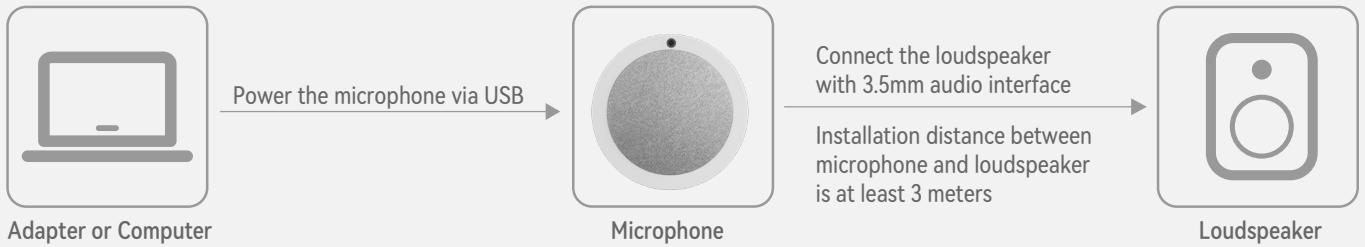


4、 Restore the default loudspeaker volume of the microphone to 0, and there will be voice announcements when pressed.

5、 Increase the loudspeaker volume of the microphone (the maximum volume is +4), there will be a beep when pressing.

6、 Decrease the loudspeaker volume of the microphone (minimum volume is -4), there will be a beep when pressing.

# Network Application



# Product Specifications

| Digital Array Microphone    |  |
|-----------------------------|--|
| Microphone type             | Omnidirectional Microphone   |
| Microphone Array            | <b>RM80 V1:</b> Internal six microphones forming acircular array<br><b>RM80 V2:</b> 2-unit MEMS microphone array |
| Pickup Range                | <b>RM80 V1:</b> 3m(360° omnidirectional pickup)<br><b>RM80 V2:</b> 3m(cardioid pickup)                           |
| Sensitivity                 | <b>RM80 V1:</b> -38 dBFS<br><b>RM80 V2:</b> -44dB(V/Pa)±3dB @1kHz  |
| Signal-to-noise Ratio       | ≥64 dB(A)  |
| Frequency Response          | 50Hz - 8kHz  |
| Sampling Rate               | 16KHz, high resolution broadband audio   |
| Howling Suppression         | Support  |
| Automatic Gain Control      | Support  |
| Reverberation Suppression   | Support  |
| Automatic Noise Suppression | Support  |
| Input/Output Interface      |  |
| Audio Input                 | 1 x 3.5mm line in Interface  |
| Audio Output                | 2 x 3.5mm Spk-out Interface  |
| USB Interface               | Supports software upgrades and parameter configuration   |
| Generic Specification       |  |
| Power                       | USB DC5V   |
| Size                        | Φ 155.9mm x H 38.2mm   |



Optional speakers

**ROCWARE®**

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