# ClearTouch

## RM100
# Whole-Room Microphone

### Digital Array Microphone

**Omnidirectional Microphone**

**Easy Installation**

**Intelligent Noise Reduction**

## Main Features

### DIGITAL MICROPHONE ARRAY
A hands-free lecture and presentation solution, the built-in digital microphone array clearly picks up audio within a 25 foot range, ideal for a standard classroom or meeting room.

### MULTIPLE AUDIO ALGORITHMS
Using patent tecnologies like intelligent noise reduction, echo cancellation, and reverberation suppression, the RM100 ensures clear sound quality and comfortable communication. Supports full duplex.

### INTELLIGENT VOICE AUTO-TRACKING
Adaptive blind beamforming technology plus automatic speaker alignment and speech reinforcement keeps speech crystal clear.

### SIMPLIFIED INSTALLATION
Plug and play using standard USB 2.0 and 3.5mm audio interface and debug-free design. A simple system with a compact appearance, the RM100 is easy to install and maintain. Supports dual-mode (digital and analog) output.

## Basic

| | |
|---|---|
| **Directivity Characteristic** | 360º |
| **Microphone Array** | Built-in 7 microphone array to form a circular pickup range |
| **Sensitivity** | -26dBFS |
| **Signal Noise to Ratio (SNR)** | 64dB (A) |
| **Frequency Response** | 20Hz - 16kHz |
| **Sampling Rate** | 32K sampling, high definition broadband audio |
| **Pickup Radius** | 25ft |
| **Automatic Echo Cancellation (AEC)** | Supported |
| **Automatic Noise Suppression (ANS)** | Supported |
| **Automatic Gain Control (AGC)** | Supported |
| **Reverberation Suppression** | Supported |

## Input/Output Interface

| | |
|---|---|
| **Audio Input** | 1x 3.5mm line in |
| **Audio Output** | 2x 3.5mm line out |
| **USB Interface** | Support UAC 1.0 protocol, audio data communications, software upgrade, and parameter configuration |

## Generic Specification

| | |
|---|---|
| **Power** | 1x USB DC 5V |
| **Dimensions** | Φ 130mm x H 33mm |



## Appearance and Interface

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

### 3.5mm Interface Connection

Powered
Remote sound reinforcement
Local to Remote Line Out
Remote to Local Line In
— USB
— 3.5mm
PC / Recording Host
Local

Powered
Remote sound reinforcement
Local to Remote Line Out
Remote to Local Line In
PC / Recording Host
Remote

### USB Interface Connection

AEC Out
Remote sound reinforcement
PC Courseware
Power + Sound
— USB
— 3.5mm
PC
Local

AEC Out
Remote sound reinforcement
Local to Remote Line Out
Remote to Local Line In
PC
Remote