# MAG6365

# Networked Indoor Speaker with LED Dot Matrix Display



## Description

The MAG6365 Networked Indoor Speaker with LED Dot Matrix Display is an integrated device that combines network broadcasting, indoor environmental monitoring, 2.4G on-site amplification, and LED dot matrix display functionalities. It is primarily designed for applications such as classroom teaching in schools, medical broadcasting and amplification, and bank queue calling systems. The key advantages of this product lie in its integrated LED dot matrix display, which can scroll and display various environmental monitoring data in real time, including PM2.5 levels, humidity, and temperature. It supports simultaneous TTS (text-to-speech) and audio broadcasting, with content displayed on the screen in a scrolling format. Additionally, it can integrate 2.4G wireless microphone functionality for on-site amplification, making it suitable for live teaching and other on-site audio needs.
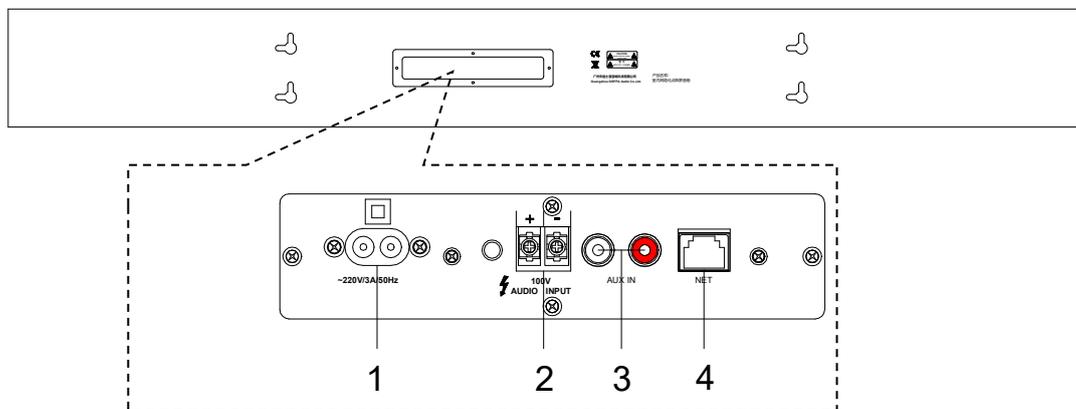
## Features

- Equipped with a 16×16 LED dot matrix display, supporting the simultaneous display of up to 10 Chinese characters.
- Supports real-time system time display; the built-in RTC (Real-Time Clock) module retains the correct time even during power outages.
- Supports text broadcasting via backend push.
- Features synchronized TTS (text-to-speech) audio broadcasting and text display.
- Built-in environmental monitoring module with PM2.5 measurement; monitoring data can be displayed on the LED screen either in scrolling or static mode.
- Integrated 2.4G wireless microphone module for on-site amplification (customizable).
- Supports PPT page-turning and laser pointer functions (customizable).
- Built-in Bluetooth module allows connection and playback via mobile devices (customizable).

- Built-in surveillance camera allows direct preview from the control terminal.
- Built-in high-precision temperature and humidity sensor provides real-time environmental data display on the LED dot matrix screen (supports additional environmental sensor customization).
- Built-in 30W high-efficiency Class-D digital amplifier, paired with two 4-inch full-range speaker units for high-quality sound output.
- Supports one auxiliary audio input, facilitating connection of other on-site audio sources for amplification.
- Supports 100V backup power functionality for network audio sources in case of network or power failure.
- Supports SPI communication protocol, enabling paging via VOIP phones.

## Specifications

| Model | | MAG6365 |
|---|---|---|
| AUX IN | Input Sensitivity | 300mV |
| | Frequency Response | 40Hz–16kHz |
| | Distortion | ≤0.3% |
| | Signal-to-Noise Ratio | ≥75dB |
| USB/SD/NET MP3 Playback | Frequency Response | 40Hz–16kHz |
| | Distortion | ≤0.5% |
| | Signal-to-Noise Ratio | ≥75dB |
| 100V Audio Output | Rated Output Power | 30W |
| | Frequency Response | 80Hz–15kHz |
| | Distortion | ≤1% |
| | Signal-to-Noise Ratio | ≥70dB |
| Power Supply | | AC220V/50Hz |
| Display Screen | | LED dot matrix screen |
| Package Dimensions (L×W×H) | | 1390×200×161mm |
| Product Dimensions (L×W×H) | | 1200×150×96mm |
| Gross Weight | | 11kg |
| Net Weight | | 10kg |

## Front / Rear Panel

**1. AC220 V Power Cord**

Provides operating power for the unit.

**2. 100V Audio Input Interface**

Connects to a third-party system amplifier for 100V audio signals, offering a 100V analog backup function.
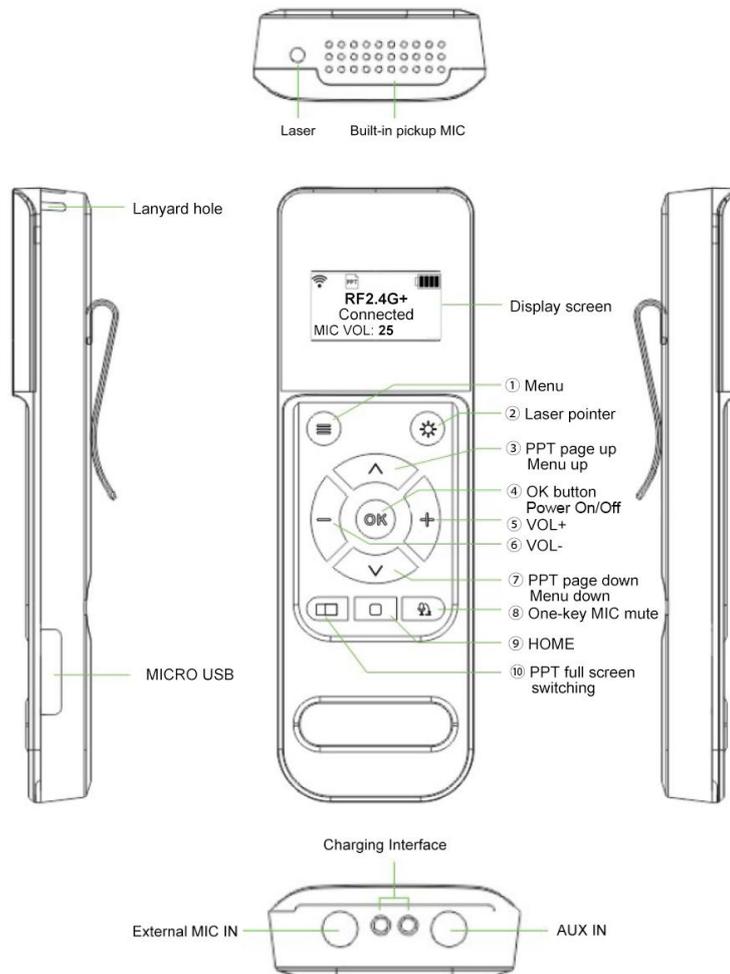
**3. Auxiliary Input Interface (AUX IN)**

Allows connection of other on-site audio sources for amplification.

**4. Network Interface (NET)**

Connects to a network switch.

## 2.4G Wireless Microphone Function Overview and Operating Instructions (Customizable Feature)



**Function Overview and Operating Instructions**

| ① "☰" Main Menu Button | Press to enter the main menu interface, which displays the following options: PPT Settings, Reverb Settings, and System Settings. | |
|---|---|---|
| | PPT Settings | Enter PPT Settings to enable or disable the PPT function. |
| | Reverb Settings | Enter Reverb Settings to choose among Reverb Off, Reverb 1, and Reverb 2. Reverb 1/2 indicate the intensity of the reverb effect, with Reverb 2 > Reverb 1. |

| | | |
|---|---|---|
| | System Settings | Enter System Settings to access Language Selection, 2.4G+ Settings, and Contrast Adjustment. <br> Language Selection: Choose between Chinese or English mode. <br> 2.4G+ Settings: Options include On, Off, and Pairing Power. On: Pair the handheld microphone with the speaker. Off: The handheld microphone cannot be paired with the speaker. Pairing Power: Choose levels 1–4, which determine the effective pairing distance between the handheld microphone and the speaker: <br> Level 1: 1m; Level 2: 1.5m; Level 3: 2m; Level 4: 4m. <br> Contrast Adjustment: Adjust the brightness and transparency of the background and display font. Minimum: 30; Maximum: 62. |
| ② Laser Button | | Located at the top-right corner. Press and hold to activate the laser pointer for teaching use. When the laser button is pressed, it projects an infrared laser for use as a teaching pointer. The laser pointer can be used directly without turning on the microphone. |
| ③ Page Up / ⑦ Page Down | | "∧" is the Page Up button; "∨": the Page Down button. The Page Up / Page Down buttons are used only for menu selection and PPT page-turning. |
| ④ Power Control Button | | "OK" button is the power control button. Press and hold for 1–2 seconds to power the device on or off. <br> When powered on, it displays "Hello." When powered off, it displays "Bye." |
| ⑤⑥ Volume Control Buttons | | "+" is the volume increase button; "-" is the volume decrease button. Short press "+" to raise the volume (maximum: 32). Short press "-" to lower the volume (minimum: 0). The buttons can adjust both the handheld microphone (MIC) and AUX volumes. Press the OK button to switch control between MIC and AUX. |
| ⑧ Mute Button | | Located at the bottom-right corner. Press once to mute; press again to unmute. |
| ⑨ Return Button | | "□" button is the return button. Press to return to the main interface. |
| ⑩ PPT Full-Screen Button | | Located at the bottom-left corner. After connecting to a computer, press to display the PPT in full screen; press again to restore the original view. |
| MIC / AUX Jacks | | The handheld microphone has two 3.5mm jacks at the bottom: the left is the MIC input, and the right is the AUX input. <br> When an audio source is connected via one of these jacks, the handheld microphone interface will display whether it is MIC or AUX. |

**Notes:**
- Before first using the PPT function, pairing is required. First, turn on PPT function and insert the PPT receiver. Then, simultaneously press and hold the Page Up and Page Down buttons to pair. When pairing is successful, the PPT icon will stop flashing and stays on. PPT buttons are disabled during menu operations.
- After successfully connecting via 2.4G audio, to connect to another receiving device, the microphone must be powered off and restarted before pairing again.