MAG6106C MAG6106CV MAG6106CG MAG6106CVG

Network Indoor Speaker

Description

MAG6106C/MAG6106CV/MAG6106CG/MAG6106CVG network indoor speaker is a modern network playback terminal that combines a TCP/IP based network fully digital analog-to-digital conversion signal processor with a high-fidelity speaker, thereby enabling an integrated design of the processor and speaker. The unit can output remote audio data streams as audio signals, and emit sound directly from the speaker, intelligently controlled by the host.

MAG6106CG/MAG6106CVG network indoor speaker has a built-in 2.4G transmission mode and a transmission box with a microphone to realize 2.4G broadcast function, which can be used for local broadcasting, “one teacher, one microphone” multimedia teaching, wireless conference, and so on.

Features

Indoor Speaker Features

- A network indoor speaker integrated with a network terminal processor and a high-fidelity speaker.
- With a built-in industrial-grade dedicated network audio decoding chip, which can play background music, emergency paging, and alarm signals from the system host. The network program source has a priority management function of level 7 or above, which is divided into three major categories: background broadcast, service broadcast, and emergency broadcast.
- Can be mounted anywhere the network reaches.
- Support decoding of 16-bit digital audio streams with a maximum sampling rate of 48kHz.
- With built-in 2×20W digital amplifier, with sub speaker interface, to meet the needs of classroom teaching.
- Support modification of IP address and other parameters on the web page or on the remote server via

the upgrade tool.

- MAG6106CG/MAG6106CVG features 2.4G wireless microphone broadcast. It is used with 2.4G wireless microphone, primarily for wireless multimedia teaching.
- MAG6106CG/MAG6106CVG can be used with the headset wireless microphone, supporting one microphone for one teacher.
- MAG6106CV/MAG6106CG/MAG6106CVG supports Bluetooth music broadcast. It can receive Bluetooth signals from mobile phones for Bluetooth music broadcast.
- MAG6106CV/MAG6106CVG has a 100V backup switching function for network disconnection and power outage.

Wireless 2.4G Headset Microphone Features (Standard Configuration for MAG6106CG/MAG6106CVG)

- Long transmission distance: stable transmission of audio data in an open area greater than 30 meters.
- Using 2.4G+ to automatically search for channels with less interference for automatic frequency pairing, ensuring no crosstalk, strong anti-interference capability and transmission stability.
- Expand multiple 2.5G channels, effectively avoiding interference from 2.4G signals such as WIFI/Bluetooth.
- Using 48kHz/16bit sampling rate, which is higher than the requirements of CD-quality wireless audio transmission.
- With automatic power-off memory function for all settings, making personalized settings more convenient to use.
- Designed with compact size and ultra-low power consumption.
- With Chinese/English menu.
- Using sandstone black rubber paint process for a great feel.

Wireless 2.4G Pen-Type Microphone Features (Optional Configuration for MAG6106CG/MAG6106CVG)

- Long transmission distance: stable transmission of audio data in an open area greater than 30 meters.
- Using 2.4G+ to automatically search for channels with less interference for automatic frequency pairing, ensuring no crosstalk, strong anti-interference capability and transmission stability.
- Expand multiple 2.5G channels, effectively avoiding interference from 2.4G signals such as WIFI/Bluetooth.
- Using 64kHz/16bit sampling rate to meet the requirements of high-quality audio transmission.
- Adopt two automatic anti-whistling algorithms, frequency shift and notch, to effectively suppress the whistling sound while ensuring the pickup distance.
- With built-in true reverb function to effectively improve the sound quality of speech, making it smooth and effortless, with the reverb level adjustable.
- Support one-key mute. AUX (3.5mm audio input port) can still transmit audio normally after mute.
- Support internal and external microphones and can be configured with a headset or a lavalier microphone.
- Support AUX audio input, using a universally compatible 3.5mm interface, for original wireless transmission of stereo audio signals.
- Support laser pointer and automatic PD control technology to prevent safety accidents caused by excessive laser power. It is strictly forbidden to shine the pointer into eyes.
- Support PPT page turning: The PPT page turning module supports hot swapping and does not require driver software.
- The base charging design is user-friendly, with a built-in strong magnet to ensure good contact for

charging by automatically attracting, while supporting MICRO USB charging.

- With an LCD display to show connection status, battery level (charging display), volume, PPT function, etc.
- With automatic power-off memory function for all settings, easy to use with personalized settings.
- With automatic audio energy detection function. When no speech or audio input is detected, the module can output a control signal to mute the amplifier.
- With power saving mode. When the device is turned on but not connected or used for 5 minutes, it will automatically shut down; when connected successfully but not used for 1 hour, it will automatically shut down.
- Designed with compact size and ultra-low power consumption.
- With Chinese/English menu.
- Using sandstone black rubber paint process for a great feel.

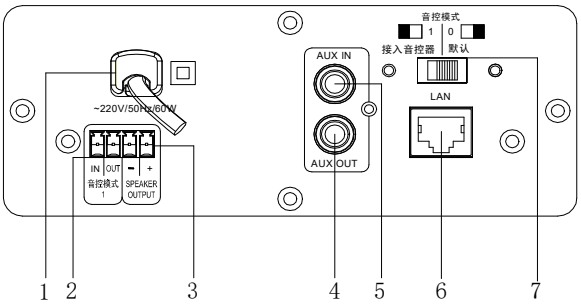
Specifications

Model		MAG6106C	MAG6106CV	MAG6106CG	MAG6106CVG
AUX IN	Input Sensitivity	300±50			
	Frequency Response	20Hz-18kHz (±3dB)			
	Distortion	≤0.7%			
	S/N Ratio	≥75dB			
AUX OUT	Output Sensitivity	1000mV±100mV			
	Frequency Response	20Hz-18kHz			
	Distortion	≤0.3%			
	S/N Ratio	≥75dB			
Acoustic System	Speaker Unit	4.5"×1			
	Sensitivity (1m, 1W)	88±2dB			
	Maximum Sound Pressure Level (1m)	98±3dB			
	Frequency Response	120Hz-12kHz			
	Rated Power (RMS)	20W			
Amplifier System	NET Playback Built-in Amplifier Frequency Response	25Hz-18kHz			
	Distortion	≤0.5%			
	S/N Ratio	≥75dB			
Power Supply		AC220V/50Hz			
100V Backup Switching Function for Network Disconnection and Power Outage		N/A	Yes	N/A	Yes
Bluetooth Function		N/A	Yes	Yes	Yes
2.4G Function		N/A	N/A	Yes	Yes
Wireless 2.4G Pen-Type Microphone (Optional Configuration for MAG6106CG/MAG6106CVG)					

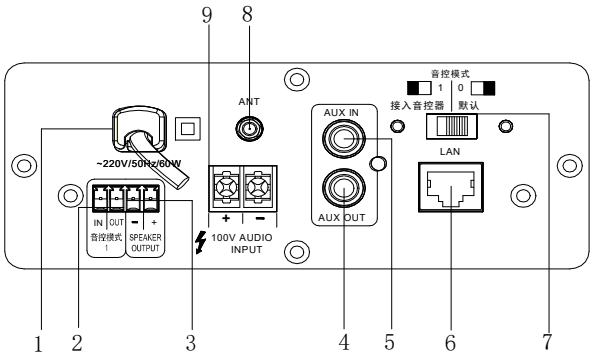
Wireless MIC Input Sensitivity	100mV±10mV	
THD	1%	
Frequency Response	50Hz~10KHz (-3dB)	
Wireless AUX Input Sensitivity	550mV±50mV	
THD	1%	
Frequency Characteristics	40Hz~14KHz (-3dB)	
THD	1%	
Frequency Characteristics	70Hz~8KHz (-3dB)	
Transmission and Reception Distance	≥10m	
S/N Ratio	≥70dB	
Frequency Pairing Mode	Automatic frequency pairing, automatic frequency hopping, automatic frequency locking, 1-to-1 matching.	
Matching Distance	Set to within 2 meters, which can be modified with the microphone.	
Wireless MIC Input Sensitivity	100mV±10mV	
Outer Package Dimensions (W×D×H mm)	415×290×260mm (2 pcs)	435×290×260mm (2 pcs)
Machine Dimensions (W×D×H mm)	205×302×115mm	
Gross Weight (2 pcs)	6.1kg (2 pcs)	
Net Weight	2.4kg	

Front / Rear Panel

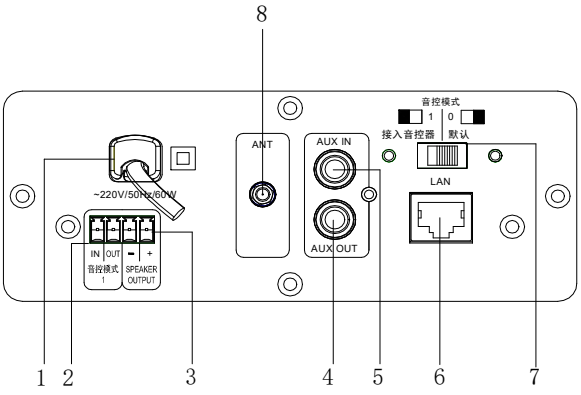
Exterior Design of the Indoor Speaker



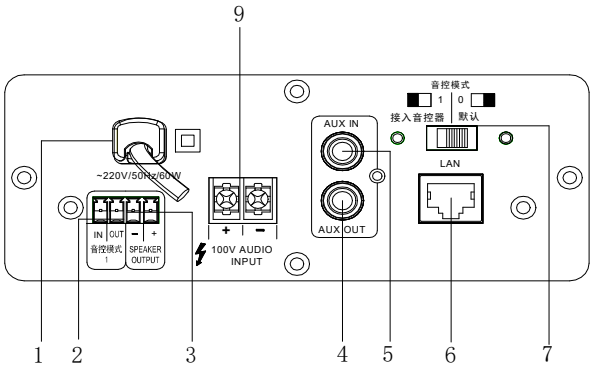
MAG6106C



MAG6106CVG



MAG6106CG



MAG6106CV

1 AC220V Power Cord

Supplies operating power for the unit.

2 Volume Controller Interface

Volume Control Mode 1: IN and OUT are connected to the IN-L and OUT-L of the volume controller,

respectively.

3 **Sub Speaker Interface**

SPEAKER OUTPUT: – and + are connected to the OUT-R and IN-R of the volume controller, respectively, with the auxiliary speaker connected in series.

If no volume controller is used, connect the auxiliary speaker directly.

4 **Auxiliary Output Interface (AUX OUT)**

Connects to other amplifiers to expand the power output of this terminal.

5 **Auxiliary Input Interface (AUX IN)**

Connects to audio source devices (such as DVD players) to expand the program sources for this unit.

6 **Network Interface (LAN)**

Connects to a network switch.

7 **DIP Switch**

- When the DIP switch is set to the left, and a volume controller is connected, volume is controlled by the volume controller.
- When the DIP switch is set to the right, volume is not controlled by the volume controller.

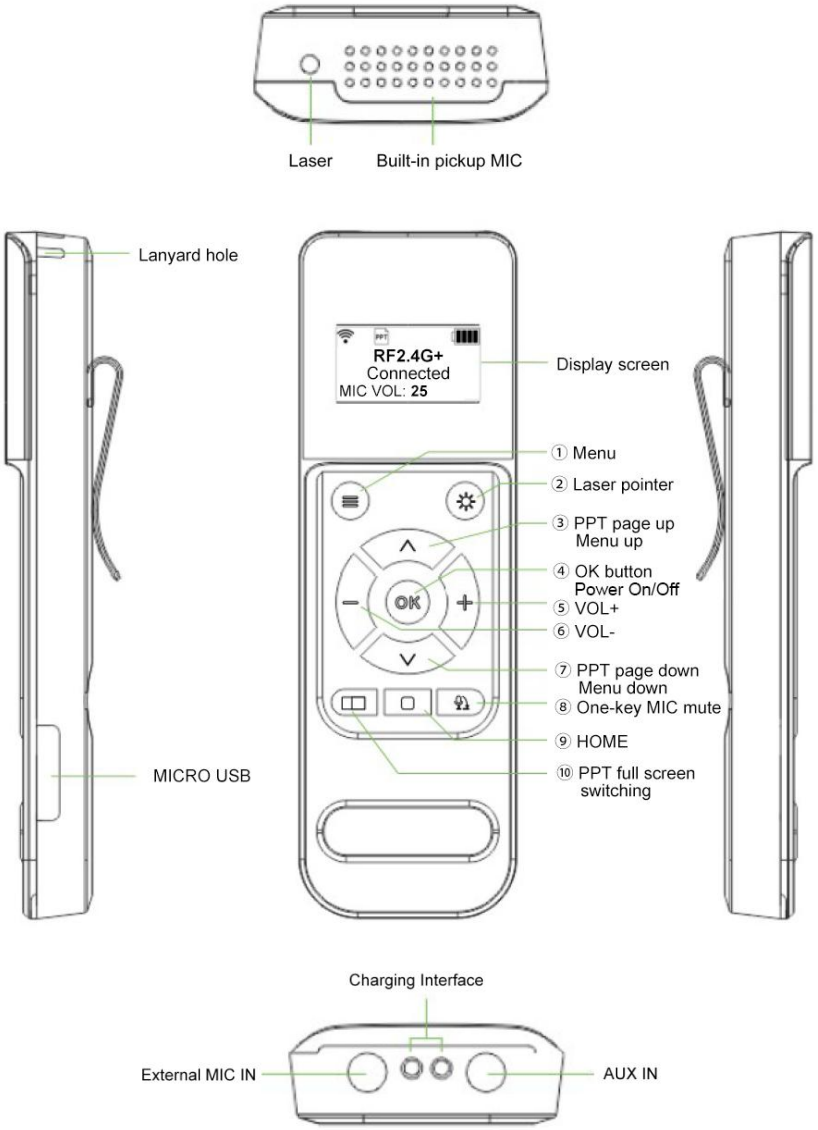
8 **2.4G Antenna Interface**

9 **100V Audio Input Interface**

Connects to the 100V audio signal from a third-party system amplifier.

Exterior Design of the Wireless 2.4G Headset Microphone

Exterior Design of the Wireless 2.4G Pen-Type Microphone



① “≡” Main Menu Button	Press this button to enter the main menu interface where “PPT settings”, “Reverb settings” and “System settings” are displayed.	
	PPT settings	Enter the PPT settings to turn on or off the PPT function.
	Reverb settings	Enter the reverb settings to select “Reverb OFF”, “Reverb 1” and “Reverb 2”. Reverb 1/2 refers to the degree of the reverberation effect, Reverb 2 > Reverb 1.
	System settings	Enter the system settings to set “Language”, “2.4G+” and “Contrast”. Language: You can select Chinese and English. 2.4G+ settings: You can select “ON”, “OFF” and “Pairing Power”. If you select “ON”, you can pair the handheld microphone with the speaker for connection. If you select “OFF”, you cannot the handheld microphone with the speaker. If you select “Pairing Power”, you can choose the level from level 1-4. The pairing power is mainly used for the distance at which the handheld microphone can be connected to the speaker. Level 1: 1m; Level 2: 1.5m; Level 3: 2m; Level 4: 4m. Contrast Adjustment: You can adjust the brightness and transparency of the background and the display font, with a minimum of 30, and a maximum of 62.

② Laser Button	The upper right corner is the laser button, which can be used to turn on the laser pointer for teaching use. Press and hold it when you need to use it. Press the laser pointer button to project infrared laser, used as a teaching pointer. When using the laser teaching pointer, it can be used directly without turning on the microphone.
③Page Up/⑦ Page Down	"∧" is the page up button, while "∨" is the page down button. The page up / page down buttons are only used when selecting the function settings and performing the PPT page.
④ Power Control Button	"OK" is the power control button. Press and hold the power button for 1-2 seconds to turn it on / off. It displays "Hello." for power-on and "Bye." for power-off.
⑤⑥ Volume Control Button	"+" is the volume up button, while "-" is the volume down button. Short press the "+" button to increase the volume accordingly, with a maximum of 32. Short press the "-" button to decrease the volume accordingly, with a minimum of 0. You can increase or decrease the MIC and AUX volume of the handheld microphone, and switch between the MIC and AUX volume via the "OK" button.
⑧ Mute Button	The lower right corner is the mute button. Press it once to mute, and press it again to unmute.
⑨ Back Button	The "□" button is the return button. Press it to return to the main interface.
⑩ PPT Full Screen Button	Th lower left corner is the PPT full screen button. After connecting the computer to open an PPT, press it to enlarge the PPT page to full screen, and press it again to restore the PPT page to the original page.
MIC/AUX Connector	There is a 3.5mm connector on the bottom left and right of the handheld microphone, a MIC connector on the left and an AUX connector on the right. When a sound source is played through the connectors, the handheld microphone interface will display that MIC or AUX is plugged in.

Note:

- Pairing is required when using the PPT function for the first time. First turn on the PPT function, plug in the PPT receiver, press and hold the up button and the down button at the same time for pairing. After successful pairing, the PPT icon will stop flashing and be normally on. During menu operation, the PPT button operation is invalid.
- After a successful 2.4G audio connection, if you need to connect to another receiving device, you will need to shut down and restart the device before pairing again.

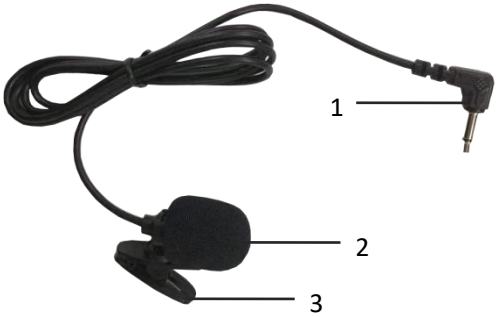
How to Use a Wireless Microphone with a Headset Microphone

1. Headset stand
2. Flexible hose
3. Microphone and pop filter
4. 3.5 Plug

Put on the headset microphone and adjust the microphone position to match the source of the sound,

about 1.5" to 2" away from your mouth. Then plug the headset microphone into the 3.5mm audio input port of the wireless microphone.

How to Use a Wireless Microphone with a Lavalier Microphone



1. 3.5 Plug
2. Microphone and pop filter
3. Clip

Clip the lavalier microphone to a suitable location for picking up sound, such as clothes, ties, and lapels, and then plug the lavalier microphone into the 3.5mm audio input port of the wireless microphone.