



GEN-6212A01

Network Ceiling Speaker

GEN-6212A01 is a network ceiling speaker that supports DC/POE power. It can receive calls from SIP phones or VMS platforms and handle up to 20 multicast streams. The device stores 20 audio files, offers priority management, timers, and custom actions (with HTTP API trigger).

SIP

Onvif

POE

Multicast

MAIN FEATURES

▲ Network Audio Transmission

GEN-6212A01 Supports audio signal transmission over IP networks, enabling real-time audio transmission over long distances. The device is compatible with standard audio communication protocols (such as SIP, ONVIF, and multicast), allowing seamless integration into existing communication systems and flexible adaptation to various audio systems and devices.

▲ Rich expansion interfaces

The GEN-6212A01 features a rich set of expansion interfaces, supporting 2 alarm input channels for integrating third-party devices (such as cameras, infrared curtains, smoke detectors, etc.) for linked alarm actions. It also supports 1 alarm output channel, capable of directly driving a siren, and 1 audio input channel, allowing for the expansion of a microphone panel for communication applications.

▲ Good sound quality

The GEN-6212A01 features a coaxial speaker for better sound quality. The speaker cavity adopts a dual-guided hole design, which enhances the bass effect. With the same power, it delivers improved music performance, making it ideal for use in environments such as hotels, offices, and other similar settings.

SPECIFICATION

Speaker	
Speaker Component	4" woofer unit + 0.5" tweeter unit
Sensitivity	89dB(1M/1W/1KHz)
Max SPL	101dB(1M/20W/1KHz)
Amplifier	Built-in Class-D
Rated power	15W(Use POE/POE+) 20W(Use DC24V)
Frequency Response	100Hz~18KHz
Coverage Pattern	884Hz:H235°/V235° 1.77KHz:H95°/V95° 3.54KHz:H64°/V64° 7.07KHz:H62°/V62°
Audio	
Audio Transmission	Multicast , ×20(Editable)
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Audio Stream	WAV (8/16/22/44.1/48 kHz sampling rate, 8/16 bits, mono/stereo), MP3(32/44.1/48 kHz sampling rate, 64-320kbps, CBR/VBR, mono/stereo).
Audio Storage	Max 20 audio files ,80MB
Audio File Format	WAV,MP3
SNR	≥85dB
Microphone	
Microphone	Electret condenser microphone
Directionality	Omni-directional
Installation method	Built-in
Sensitivity	-45±3dB
SNR	58dB
Max Input Sound Level	110dB(THD<1%)

SPECIFICATION

Network

Network I/F	10BASE-T/100BASE-TX ,RJ45 Connector
Network Protocol	TCP/IP,UDP,HTTP,RTP,RTSP,ARP,ICMP,NTP,SIP,ONVIF
Config Method	Web Interface or DevConfig Tool

Interface

Network I/F	RJ45 Connector, support PoE IEEE 802.3af/at
Audio Input	×1, Line/Mic input(Balanced,Switchable)
Input Sensitivity	-10dB(Line) , -20dB(Mic)
Control Input	×2
Control Output	×1 ,Relay output/DC12V output switchable
Power Input	×1,DC24V
Reset Button	×1

Mechanical & Environment Properties

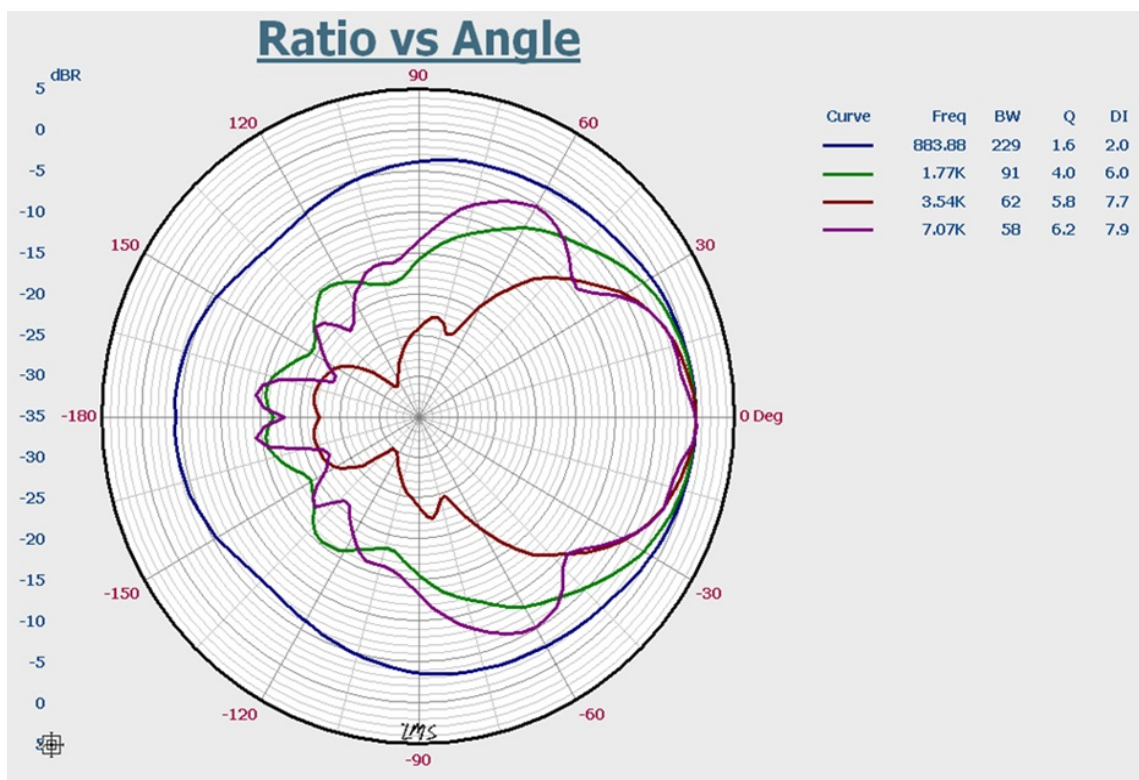
Housing Material	Iron+ABS
Color	Off White(Net) + Black(Housing)
Working Temp	-30°C~+60°C
Humidity	≤90% RH non-condensing
Mounting Method	Recessed Installation
Installation Environment	Indoor Locations
Dimensions	φ204x167mm
Hole Dimension	φ180mm
Weight	1900g
Warranty	2 Years

ACCESSORIES

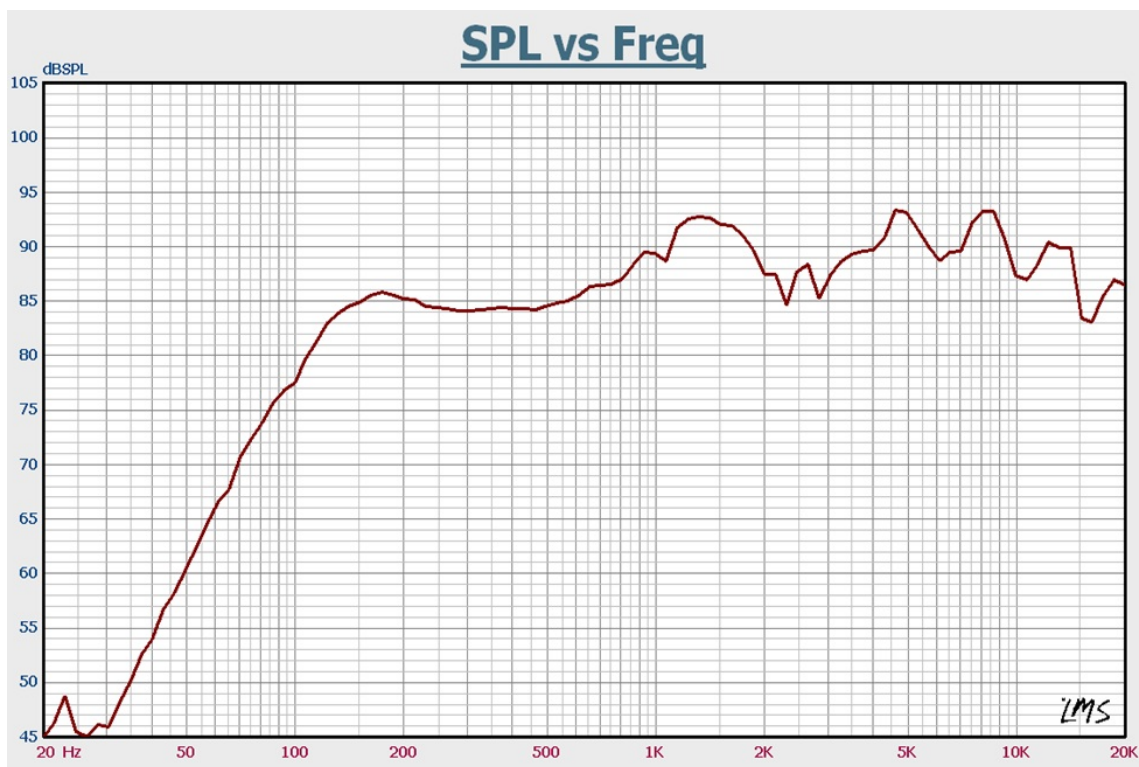
1×2pin Terminal(3.81-2P);1×4pin Terminal(3.5-4P);1×6pin Terminal(3.5-6P)
1×Power Adapter(DC24V/1A)/Optional
1 × Installation Manual

SPECIFICATION

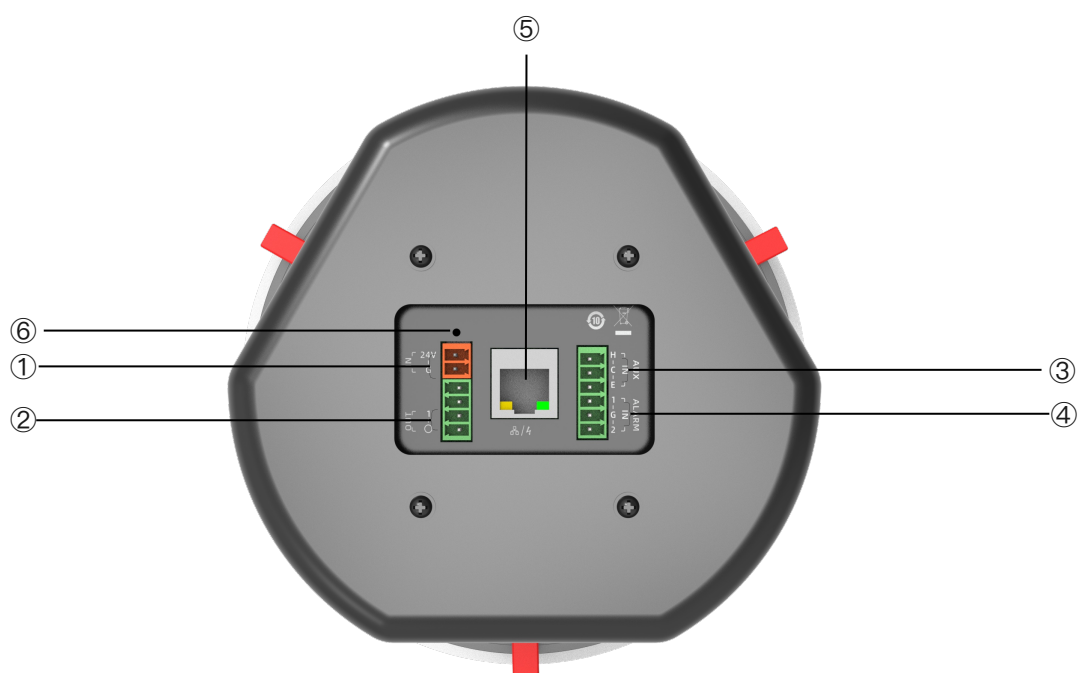
【Horizontal/Vertical Loudspeaker Directivity】



【 Frequency Response Curve】

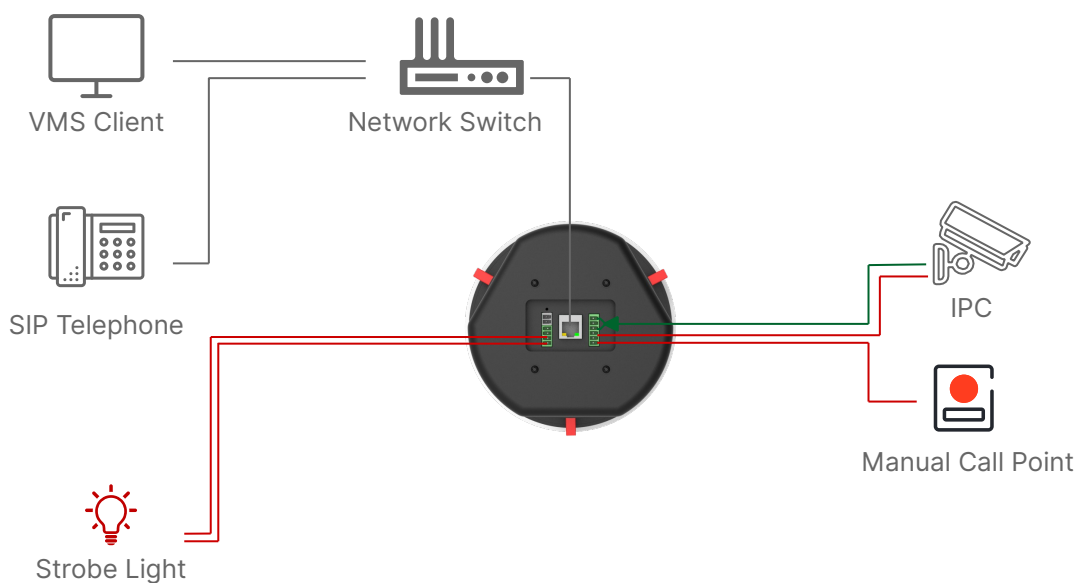


INTERFACE DESCRIPTION



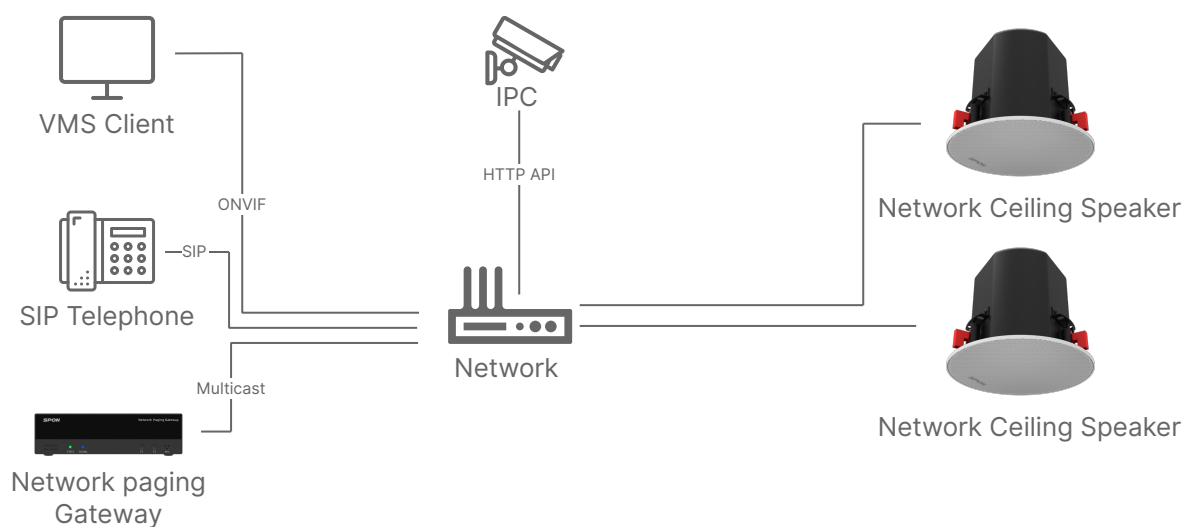
- ① Power Input
- ② Alarm Output Terminal
- ③ Line/Mic Input Terminal
- ④ Alarm Input Terminal
- ⑤ RJ45 Connector
- ⑥ Reset

CONNECTION DIAGRAM



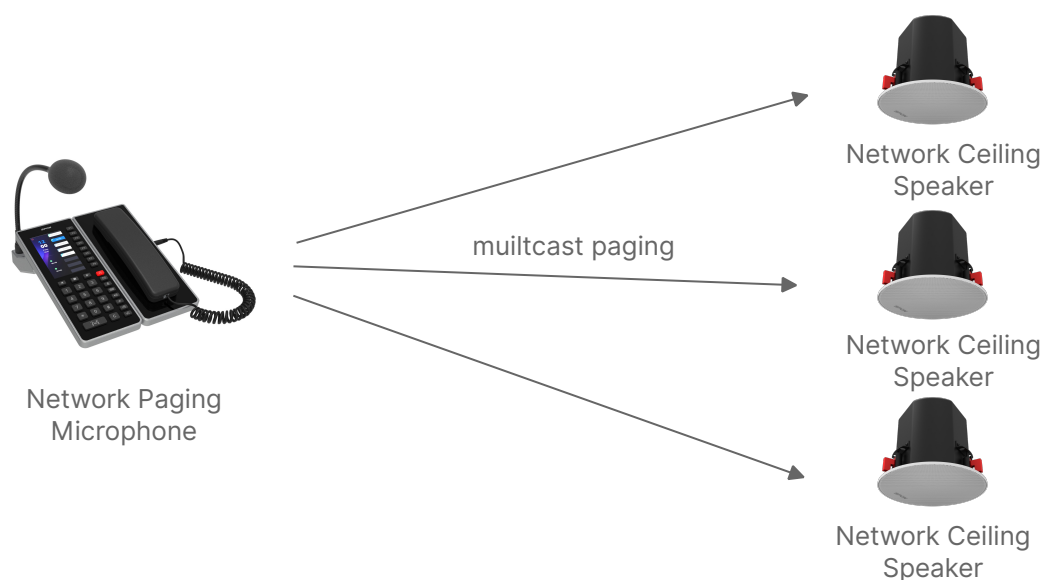
APPLICATION

The GEN-6212A01 Network Ceiling Speaker adopts standard industrial audio communication protocols and supports receiving audio streams via SIP, ONVIF, and multicast. The terminal features multiple I/O control interfaces (2 alarm inputs, 1 output) and supports HTTP commands, facilitating integration with third-party systems.

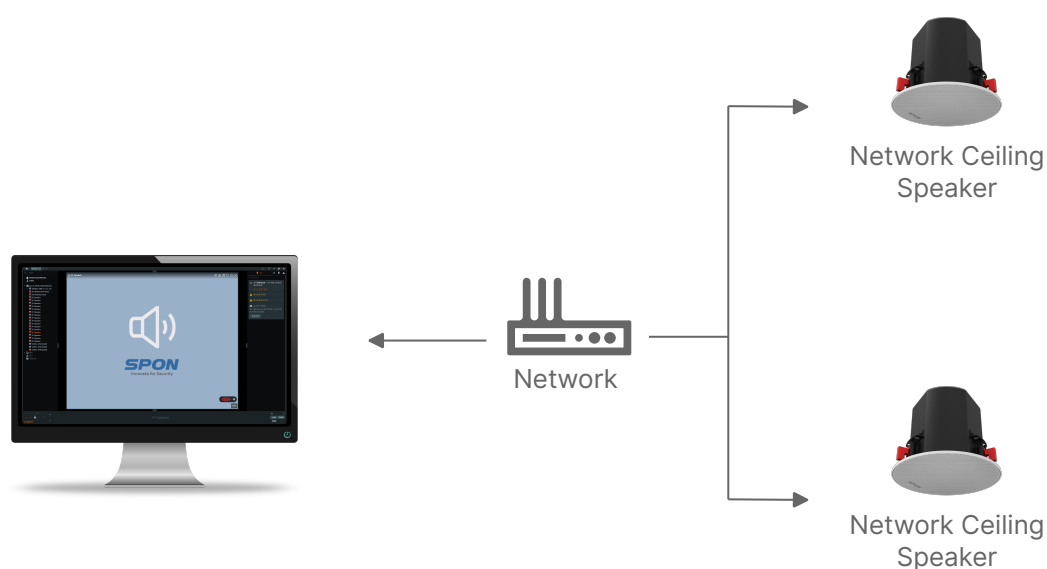


APPLICATION

The Network Ceiling Speaker GEN-6212A01 support paging from SIP phone by using multicast address , the multicast address and priority can be set on its webpage .



The Network Ceiling Speaker GEN-6212A01 support Onvif protocol which can be registered to the 3-rd party monitoring system ,and during emergency situation ,the operator can directly make a live announcement to the speaker on the monitoring platform.



INSTALLATION

Installation Hole Size $\varnothing 180\text{mm}$

