



SH10

Network Horn Speaker

ZYCOO SH10 is a SIP enabled horn speaker which provides exceptionally clear and intelligible voice for SIP paging, notification/tone broadcasting and streamed background music. It is suitable to be deployed in outdoor and other open spaces for public notifications and public safety purposes. In addition, SH10 has a built-in microphone that allows for two-way communication when used with an external button, and it also supports dry contact output. The power can be adaptively adjusted based on different PoE standards.

Applicable Scenarios



Schools

Industrial
Facilities

Plazas

Train/Bus
Stations

Warehouses



Playgrounds

Manufacture
Facilities

Stadiums

Sports
Stadiums

Parks



Scenic Areas



Warehouses

Features

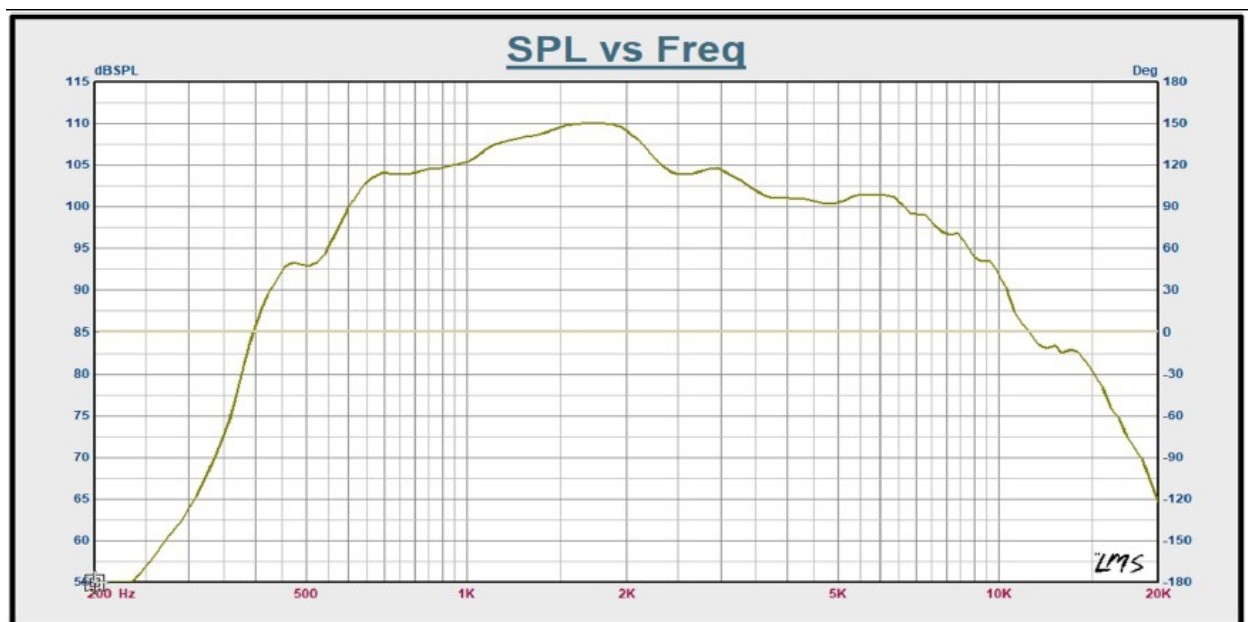
- Built-in 15W amplifier, 400Hz to 8KHz frequency range and 115dB max sound pressure level, the audibility and intelligibility of voice paging are guaranteed even in noisy and large spaces.
- With IP66 protection rating and well thermal durability. SH10 is suitable for outdoor installation and operations, even in extreme outdoor environments.
- ZYCOO IP Audio Center auto provisioning support, large-scale installations (local or remote) will be extremely easy and time-saving.
- Built-in SIP support, can be integrated with ZYCOO IP Audio Center or third-party SIP server, SIP paging using wideband G.722 codec which provides crystal clear HD voice.
- Music playback through ZYCOO IP Audio Center using streamed media. HD MP3 audio files supported for superior quality of background music.
- Standard PoE (IEEE 802.3af/at) support, simple and easy installation with a single network cable. External power supply can be used if required.
- SH10 supports three lines SIP accounts, in which users may register the endpoint in more than one system for achieving different functionality purposes.
- SH10 is compatible with ONVIF-supported Video Management Software (VMS), enabling collaboration with IP cameras for functions such as paging, emergency notifications, real-time announcements, and event linkage, enhancing both security and functionality.
- SH10 features a built-in microphone design and has an excellent sound pickup effect. When used with the external button, the two-way communication function can be easily realized.

Specifications

Speaker	
Speaker component	1.5"midrange driver unit
Sensitivity	105dB/1m/1W
Max sound pressure level	115dB
Amplifier	Class D Amplifier
Rated power	DC: 8Ω 15W or PoE: af-8Ω 8W /at-8Ω 15W
Frequency range	400Hz – 8KHz
Coverage Pattern	50°H 50°V, effective distance 70m
Acoustics	Mono
Audio	
Audio codecs	G.722, G.711 A-law, G.711 U-law, Opus
Audio streaming	MP3 sampling rate 8 – 48KHz, bit rate 64 – 320kbps, Mono or Stereo
Microphone	
Microphone	Electret condenser microphone
Directionality	Omni-directional
Installation method	Built-in
Sensitivity	-36±2dB
SNR	65dB
Maximum input sound pressure	110 dB (THD ≤ 3%)
Maximum pickup distance	Up to 10m in a 50dB noise environment
Interface	
Interface	RJ45 connector for POE 3-pin 3.81mm Phoenix terminal for one button and one light 2-pin 3.81mm Phoenix terminal for Relay (NO, COM) DC 24V-1A Power interface
Network	
interface	10/100Mbps, support PoE IEEE 802.3af/at
Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
Administration	
Configuration	Web interface or auto provisioning server.
Provisioning method	MQTT IoT Protocol

Mechanical Properties	
Memory	128MB RAM, 256MB Flash
Power input	PoE IEEE802.3af/at standard adaptive (af 8W / at 15W) or DC 24V-1A
PoE powering mode	Mode A only, powered via RJ45 pins 1/2 and 3/6
Casing	Anti-rust treated 1060 pure aluminum
IP Rating	IP66
Color	White
Weight	2KG
Dimension	Ø220 x 235 mm (8.66 x 9.25 in)
Mounting method	Wall/Pole mounted
Environmental	
Installation environment	Indoor/Outdoor
Operating temperature	-30°C - 70°C (-22°F - 158°F)
Storage temperature	-40°C - 70°C (-40°F - 158°F)
Humidity	10% - 95% RH Non-condensing
Approvals	
Approvals	EN 55032:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 62368-1:2014+A11:2017, FCC Part 15B

Frequency Response Curve



Model	SH10
LF Driver	NC
HF Driver	1.5in
RMS Power	10W
Peak Power	20W
Impedance	8 Ohm
Frequency Response	500Hz-10kHz
Sensitivity (1W/1m)	105dB 1M1W spl



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