ZYCOO

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

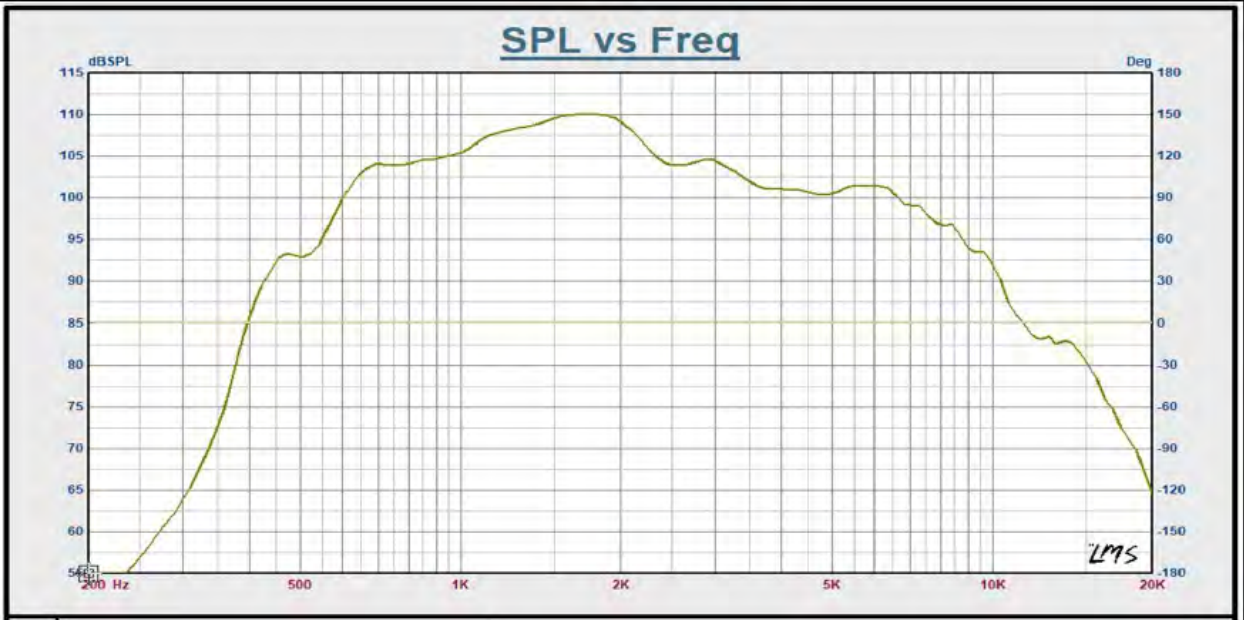|		
Schools	Industrial Facilities	Plazas
Train/Bus Stations	Warehouses	Playgrounds
Manufacture Facilities	Stadiums	Sports Stadiums
Parks	Scenic Areas	Warehouses

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
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℃ - 70℃ (-22℉ - 158℉)
Storage temperature	-40℃ - 70℃ (-40℉ - 158℉)
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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