



Amber SM8/12 Overview

Amber series powered speakers are designed for intelligent network system construction and have digital and analog dual-link backup inputs. This series of powered speakers uses TENDZONE's proprietary audio processing technology to achieve natural sound playback and inherit TENDZONE's good sound quality. It uses TENDZONE Vailink network transmission protocol and realizes network audio transmission through the RJ45 network interface. It also has an XLR-F analog input interface, which serves as a link backup for network audio transmission, with network priority and automatic switching. It provides stable and safe protection for major integration projects.

Features

Basic Functions

- ◆ Built-in digital signal processing, using Chinese Rockchip ARM as the processing and management core
- ◆ Built-in dual-channel intelligent digital power amplifier, the speaker is driven in bi-amp mode
- ◆ Adopting Vailink network audio transmission protocol, it seamlessly connects with AI audio algorithm processing service platform. The platform design software can uniformly design signal routing and management, manage multiple devices in a unified manner, and remotely switch devices on and off
- ◆ 2 Vailink gigabit network interfaces, supporting dual-link redundant backup. If one link fails, it will automatically and seamlessly switch to the other link
- ◆ 1 XLR analog input interface, automatically switches to analog input link when network links fail

Operation and Maintenance Management

- ◆ Built-in electret omnidirectional professional test microphone to monitor the sound restoration status of the speaker in real time
- ◆ The platform software can remotely monitor the working status of the speaker, including: output current, output voltage, temperature, output protection status warning, amplifier module channel mute status display, output limit warning
- ◆ It has the function of device search, which can be queried remotely and let the device display location reminder
- ◆ Color LCD display, which can display device information and parameters, and can turn pages and confirm parameters through encoder

Application

- Meeting Rooms
- Conference Center
- House of Worship
- Courtrooms
- Classrooms
- Training Rooms
- Hotels
- Lecture Halls
- All Hand Space

SPECIFICATIONS

General Parameters		
Model	Amber SM8	Amber SM12
Low Frequency Unit	8 inches	12 inches
High Frequency Unit	1.7 inch	
Speaker Rated Power	300W	450W
Maximum SPL	117dB continuous, 123dB peak	121dB continuous, 127dB peak
Frequency Response (-10dB)	70Hz-20kHz	60Hz-20kHz
Coverage Angle	100° x 60°	80° x 50°
Working Mode	Adopt dual power amplifier drive: low frequency, high frequency; signal processing: domestic ARM	
Installation	Bracket, wall mount,	
Functions		
Connection	Vailink protocol, 2 RJ45, 1000M/100M adaptive, dual-link transmission & management, automatic switching	
Analog Input	XLR-F balanced input; maximum input level: 20dBu, dynamic range: >110dBA, frequency response: 20Hz-20kHz (±0.2dB)	
Analog Output	XLR-M balanced output, analog loop-out or processed output; maximum output level: 20dBu, dynamic range: >110dBA, frequency response: 20Hz-20kHz (±0.2dB)	
Management	Centrally managed by the audio algorithm processing service platform, seamless connection	
Remote Switch	The platform remotely manages the device's switch	
Signal Selection & Link Backup	Network and mode input, three-link backup transmission function, automatically switch to analog input when network transmission fails	
Health status	Built-in electret omnidirectional professional test microphone, which can monitor the sound restoration status of the speaker in real time	
Working status monitoring	Output current, output voltage, load, temperature, output protection status warning, mute status display, output limit warning	
Device Search	Remote search, speaker brand backlight flashes	
Display screen	1.5-inch LCD display, can display device information and parameters, can turn pages and confirm parameters through encoder	
User Control	Supports adjusting volume, mute, and page	
Electrical and Physical Parameters		
Power Interface	Neutrik PowerCon	
Power Switch	Ship Type Switch	
Amplifier Power	800W	

Amplification Type	Using Class D technology, the conversion efficiency can reach 90%@360 W	
Operating Voltage	AC100V-240,50/60Hz	
Operating Temperature	0~45℃	
Dimensions (W x H x D)	263mm x 494mm x 265mm	362mm x 624mm x 367mm
Weight	16kg	31kg

Rear Panel

