ONVIF Horn Speaker

POE170VF



User Manual

Thank you for using our products. For a better user experience, please read the user manual carefully prior to use.

Guangzhou DSPPA Audio Co., Ltd.

http://www.dsppatech.com

This page is left blank for users to take notes.

About the User Manual

The user manual is available and effective upon completion of the development of the device. The user manual includes product description, safety precautions, system connection instructions, operating instructions, and technical specifications of the device. Please read this manual carefully before connection, installation and use, and follow the corresponding instructions in the manual.



The instructions marked with this symbol on the rear panel of the machine are all matters that must be noted, and be sure to follow these instructions when using or operating the machine.

Please keep the user manual properly for unexpected needs.

V1.1
Facture 2025-05-22

⚠Warning

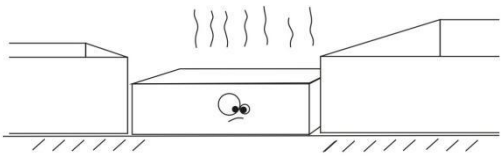
To prevent potential personal injury, equipment damage, and property loss to the user and others, be sure to follow the basic precautions outlined below.

This symbol indicates what is “prohibited”. This symbol indicates what is “required”.

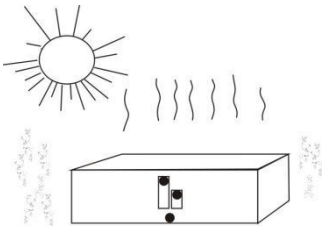
■Check whether the power cord is damaged. Do not pull the power cord but hold the plug directly to remove the plug, otherwise it may cause electric shock, short circuit or fire.



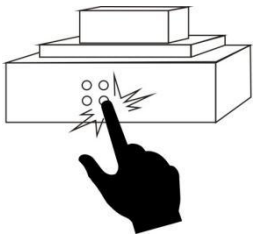
■Do not block the vents during operation. All vents should remain unobstructed to prevent overheating.



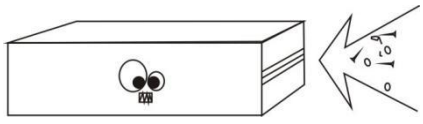
■Do not place the equipment in an environment that is dusty, frequently vibrating, extremely cold or hot.



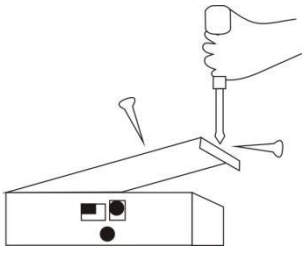
■Do not place something heavy on the equipment. Do not use excessive force when operating switches or buttons or connecting external audio equipment.



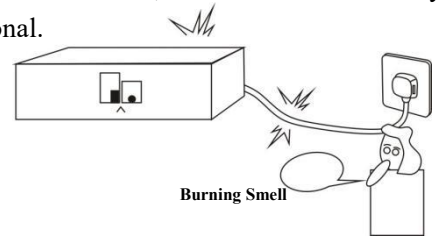
■Do not allow any external objects (such as paper and metal) to enter any gaps or openings of the equipment. If this happens, disconnect the equipment from the power grid immediately.



■Do not attempt to disassemble or modify the internal parts of the equipment in any way.



■If the equipment suddenly breaks down or emits an abnormal odor or smoke during use, unplug it immediately in case of electric shock, fire or other accidents, and have it serviced by a professional.



■If the equipment is not in use for a long time, unplug the AC power cord or turn off the wall outlet for zero power consumption.

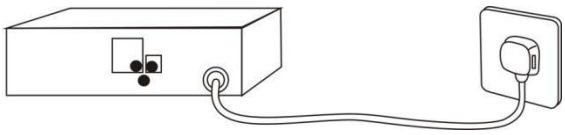


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1. Product Description

1.1 Product Overview

This device is an ONVIF horn speaker that supports public address and intercom network system. With the support of the international standard ONVIF protocol, it can accept broadcasts and calls from LAN, and can be quickly deployed to the desired place with only one network cable. Through the web interface, you can upload and download songs for direct playback. It can be independently bound to a camera and triggered to play music via the camera's API. The horn speaker offers a wide sound diffusion angle, is easy to install, and delivers excellent reproduction of both speech and music.

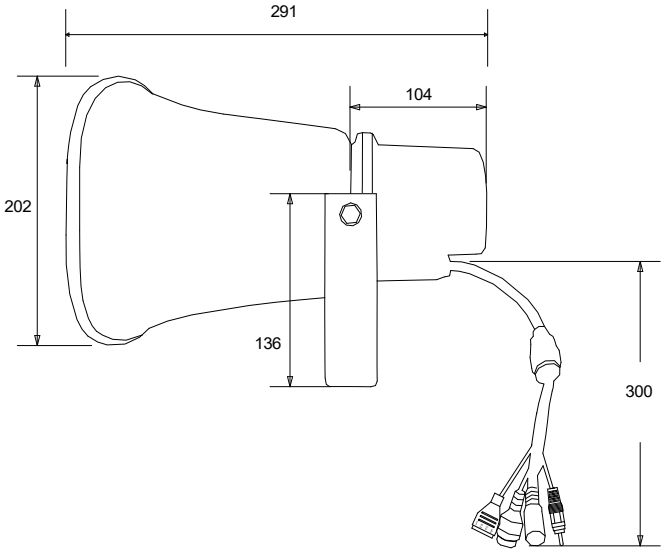
1.2 Features

- 10/100M adaptive, support DHCP/static IP.
- Support standard ONVIF protocol.
- Can play background music, emergency paging, alarm signals, etc. from the host system.
- Adopt high-quality ABS plastic and high-dynamic range speaker unit for clearer and brighter sound.
- Equipped with a mounting bracket for easy installation.
- All-weather design, suitable for both indoors and outdoors, applicable to different occasions.
- Can adjust short circuit detection mode.
- Can download songs and support formats such as MP3 and WAV.
- Can adjust the priority order of the three sources, such as ONVIF, network, and short-circuit input.

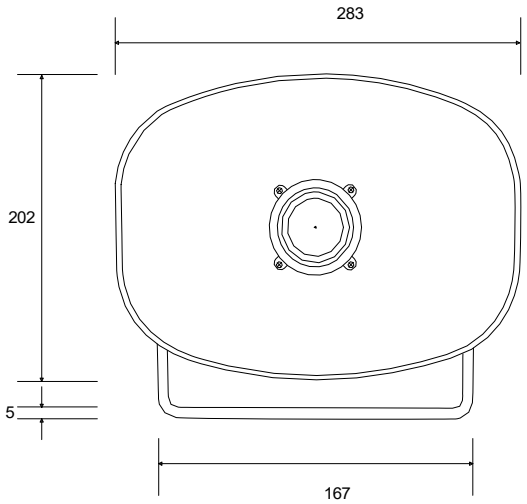
2. Product Information

2.1 Appearance Description

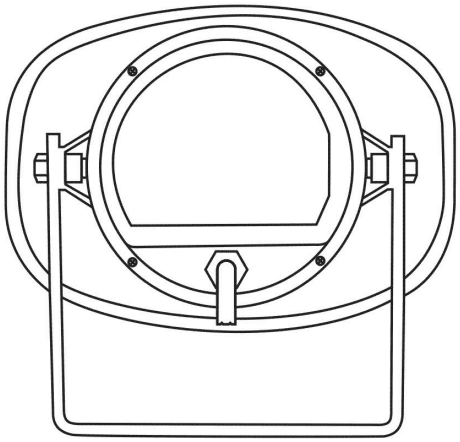
Unit: mm



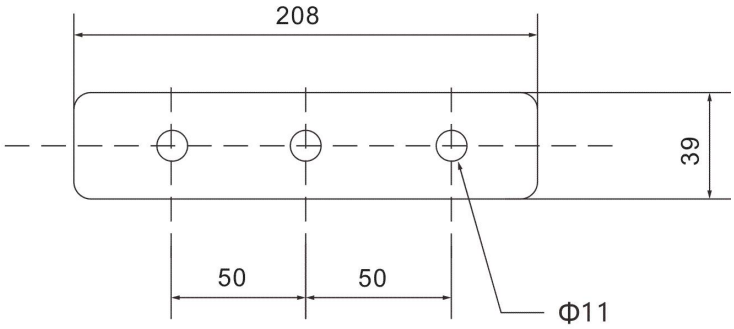
Side View



Front View



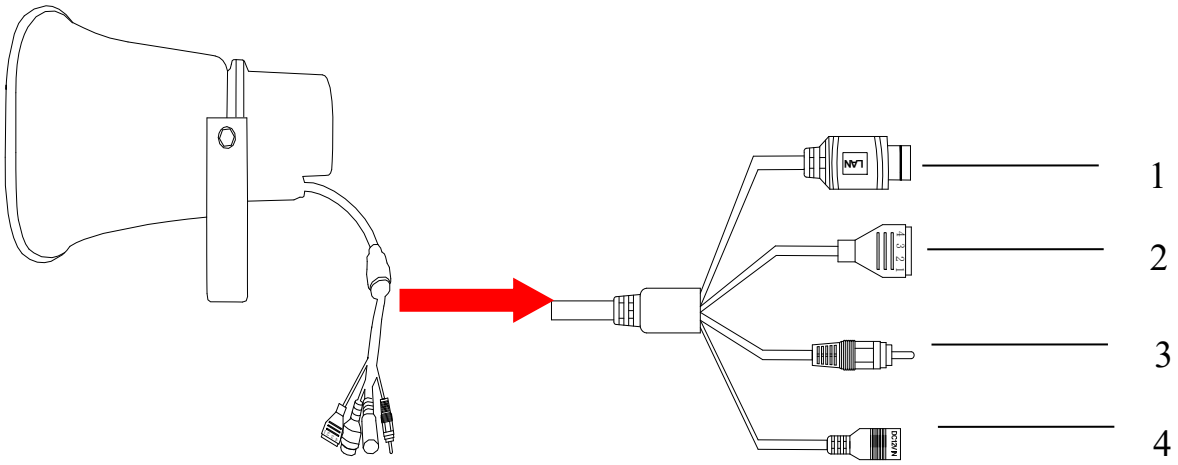
Back View



Mounting Bracket

2.2 Connection and Installation

2.2.1 Product Functions



1. **Network Interface**
2. **Pins 1 and 2: High/Low Level Input**

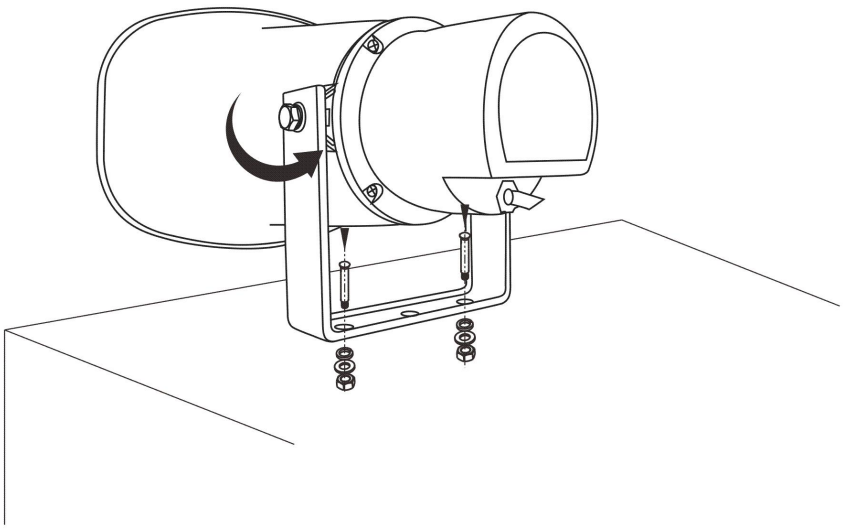
   Configure the input mode on the web interface under "Basic Information" (High level: 5–24V, Low level: 0V). When the corresponding level signal is input, the horn speaker alarm will be triggered.

   Pins 3 and 4: Short-Circuit Signal Output During Alarm

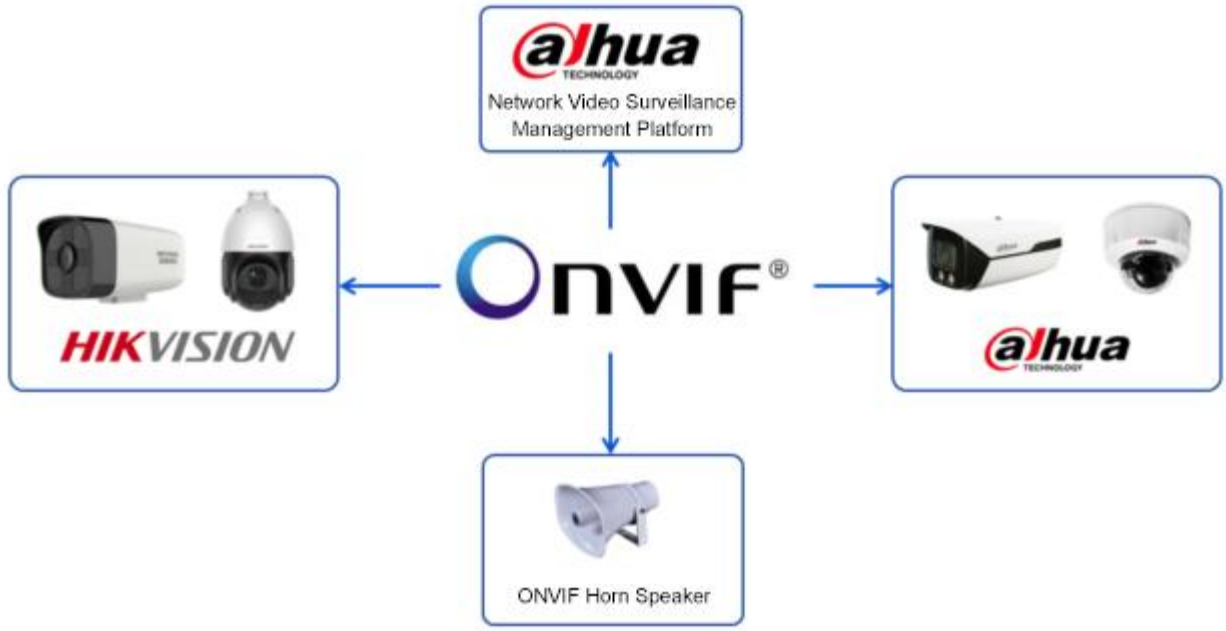
   To enable short-circuit signal output, the "Output Control" option must be checked in the alarm settings on the web interface.
3. **Audio Line Input**
4. **DC24V Power Input Cable**

2.2.2 Installation Instructions

The bracket can be rotated at various angles. First tighten the nut to fix the bracket, and then secure the screws into the mounting holes and fix them on the wall.



2.2.3 Product Connection Diagram



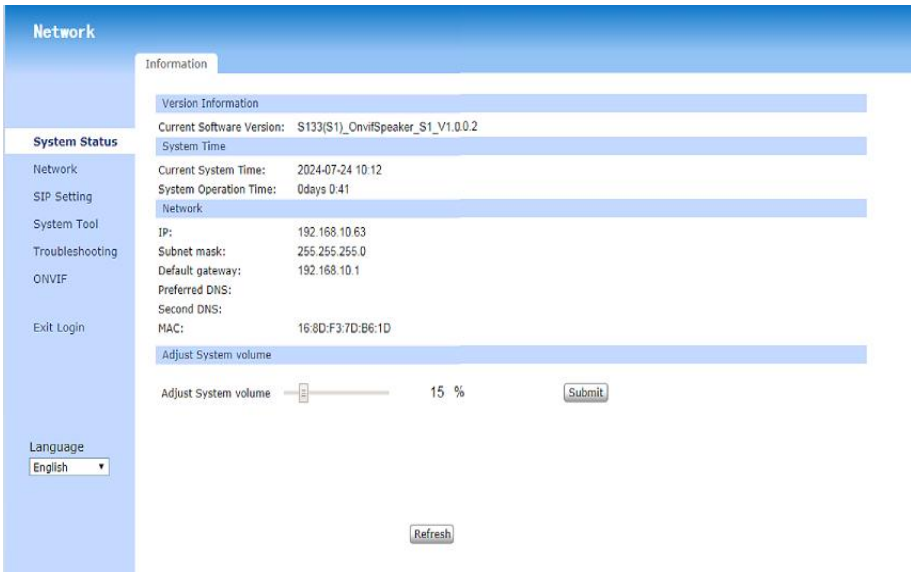
Note: As shown in the diagram, you can transfer the audio file to the ONVIF horn speaker through the web interface of the ONVIF horn speaker. When the surveillance camera triggers an event, the speaker will play the pre-stored alarm audio.

3. Terminal Web Function Settings

Set this device on the same LAN as your computer. After the computer and the terminal are connected, enter the default factory IP: 192.168.10.128 or the modified IP on the Internet Explorer browser to enter the interface as shown below. Enter the user name: admin, and password: admin to log in.



Once you have successfully logged in, you enter the interface as shown below.



1) System status

You can view the current software version, system time, and device network details, and adjust system volume.

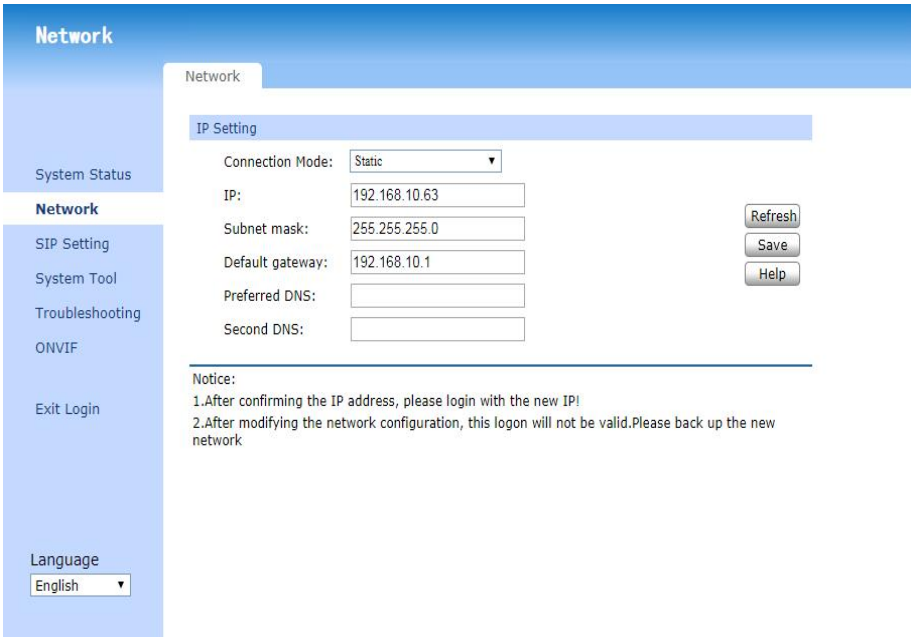
2) Network settings

The network connection mode of the device. Select the appropriate network mode based on the actual network environment. The device provides two ways to network connection:

Static IP mode (Static): You can select this option. After selecting this mode, fill in the static IP address, subnet mask, gateway, DNS domain name, primary DNS, and alternate DNS.

DHCP mode: In this mode, network-related information is automatically obtained from the DHCP server and you

do not need to manually enter these fields. It is important to note that this mode is disabled if the network does not have DHCP services, otherwise the device cannot go online.



3) SIP settings

Registration status: Display the SIP registration status of the device; if registration is successful, it will show Registered, and if it is unsuccessful, it will show Not Registered.

User account: Configure the SIP registered account.

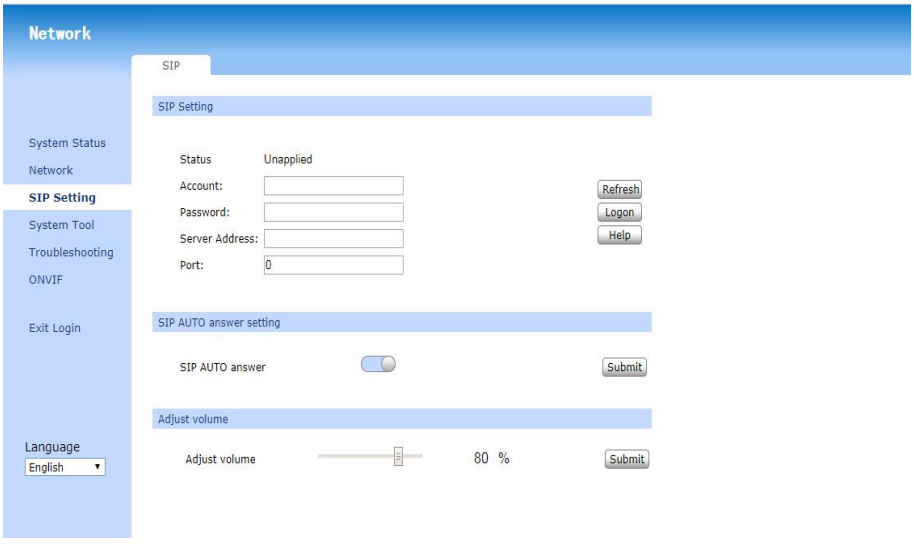
Password: Configure the password for the SIP registered account.

Server address: Configure the SIP registration server address and addresses in the form of domain names are allowed.

Server port: Configure the SIP registration server signaling port.

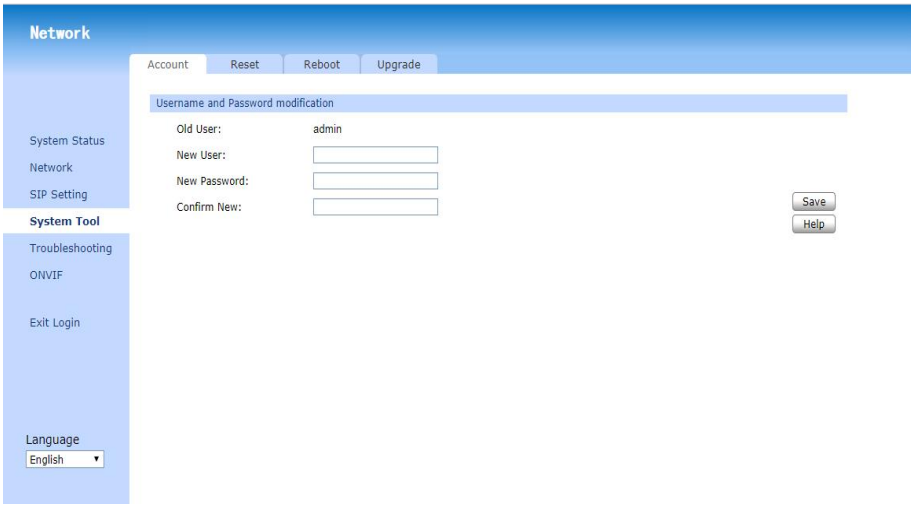
SIP auto answer switch: If it is on, the device will automatically answer when a SIP phone is accessed.

Device volume adjustment: Set the device volume level.



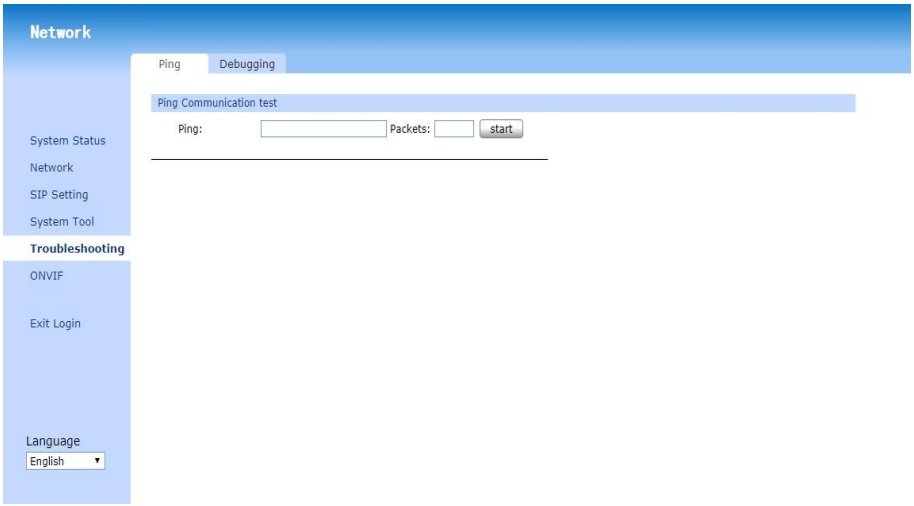
4) System tools

You can modify the login user name and password, restore factory settings, restart the device and upgrade software on the web side of this device.



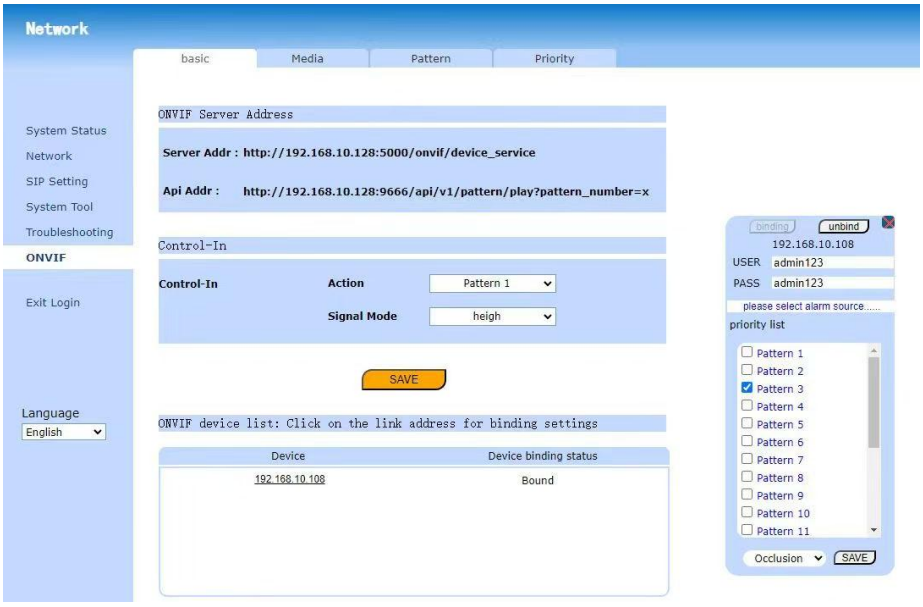
5) Troubleshooting

You can use the Ping function and remote debugging to troubleshoot the device.



6) ONVIF

Supports configuration of ONVIF device service addresses, input control, and ONVIF device list binding.



(1) Basic Information: Allows binding of ONVIF device service addresses and configuration of audio sources and trigger modes.

① ONVIF Device Service Address

a. Server Address: The address assigned to this device by a third-party ONVIF server.

b. Soft Trigger Address: The address used by a third-party ONVIF server to trigger the alarm audio on this device. “X” represents a value from 1 to 20.

② Input Control

a. Audio Source: Click “Audio Source” to customize and select one track from “Pattern 1” to “Pattern 20” as the alarm sound for short-circuit triggering.

b. Mode: Click “Mode” to choose between Low Level or High Level. Selecting High Level triggers the alarm, while Low Level indicates a short-circuit condition.

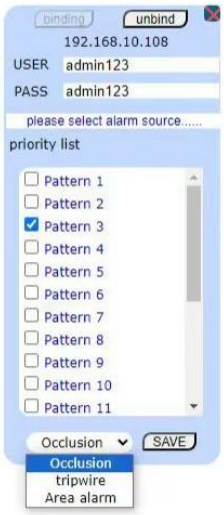
Note: When short-circuited, the device continuously plays the bound audio track. Playback continues as long as the short circuit remains. Once the circuit is disconnected and the alarm audio finishes playing (according to settings), the device returns to idle. During short-circuit triggering, the device status shown on the host will display the ONVIF icon.

③ ONVIF Device List

Select a device and click it. In the pop-up window, enter the ONVIF username and password for the camera, then click “Bind.” After binding, choose an event at the bottom of the window to bind an audio source.

Each speaker can only be bound to one camera and supports only three types of events: Obstruction Alarm (Occlusion), Line Crossing Alarm (Tripwire), and Intrusion Alarm (Area Alarm). Each event can be individually linked to a different alarm sound.

The audio source follows a descending priority order, for example: Pattern 1 > Pattern 2 > Pattern 3 > ... > Pattern 20. Lower-priority sounds cannot interrupt higher-priority ones.



Note:

1. Camera Setup: Enter the camera's web address (e.g., 192.168.10.251) and log in with username admin123 and password abc123456. In the upper-right corner of the page, click Settings to enter the settings interface.Select User Management under System Settings, then click Add User in the ONVIF Users section to create the ONVIF account that will be bound to the device.
2. Intrusion/Line Crossing Alarm:

In the camera settings interface, click Event Management, select General Behavior Analysis, check Rule 1 and choose Intrusion.Click Draw Rule on the left side of the camera interface, draw a rectangle in the video, check Alarm Output, and click Confirm to complete the setup.When an object moves into the defined area, the speaker will play the bound alarm audio. (The same setup applies for the Line Crossing alarm.)

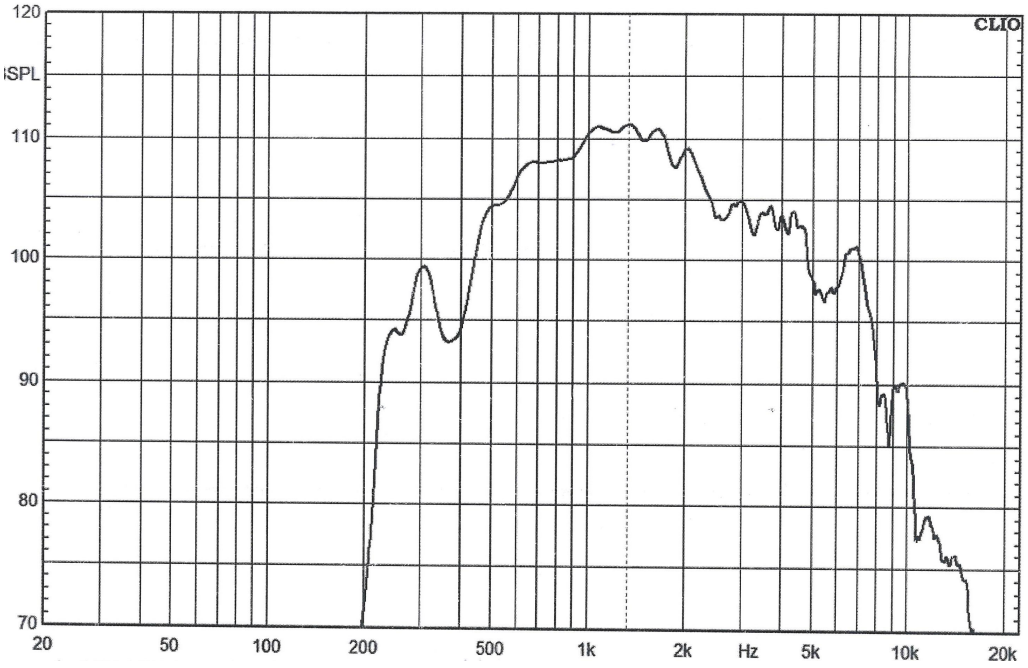
3. Obstruction Alarm:

In the camera settings, click Video Detection, select Video, and check Enable Video Obstruction, Alarm Output, Record, and Snapshot. Click Confirm to complete the setup. When the camera lens is obstructed, the speaker will trigger the alarm event and play the corresponding bound alarm audio.

4. Performance Indicators

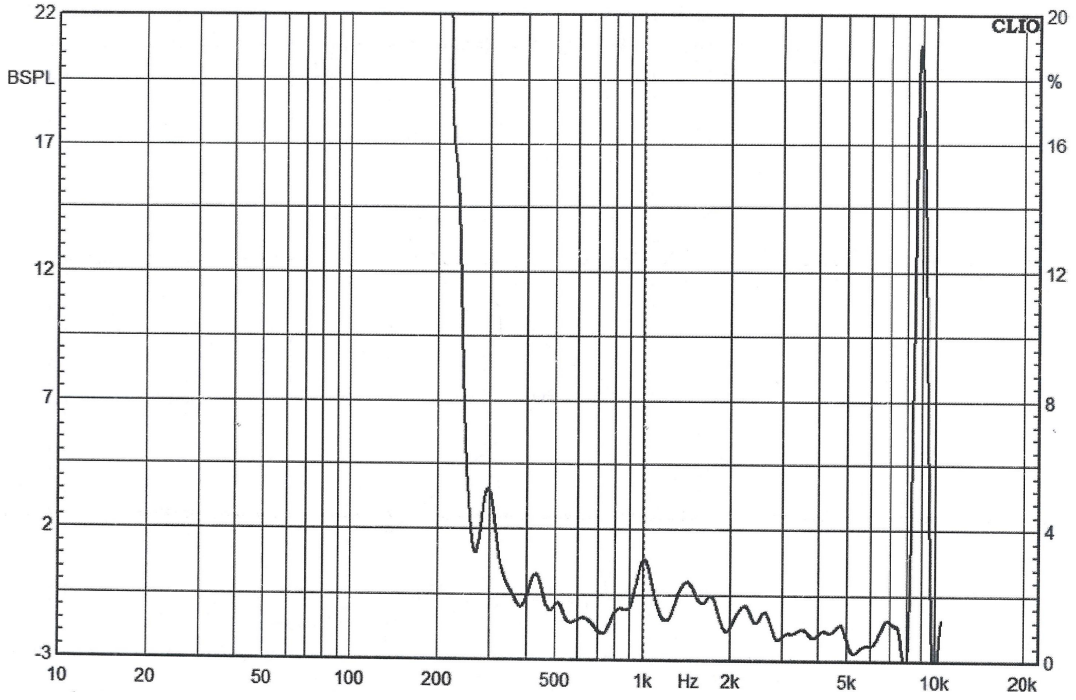
1) Frequency Response

(dB SPL, 1W, 1m)



2) Distortion

(THD<1.5% 1W, 1m, 200Hz~10kHz)



Precautions for Use

1. Safety Precautions

- Do not connect the equipment to the power grid before the system is connected properly.
- Make sure that the voltage input to the equipment is completely consistent with the required voltage of the equipment, otherwise the equipment may be burned out.
- There is a dangerous voltage inside the machine, which can cause electric shock. Do not open the case without authorization in case of electric shock.
- For the sake of safety, please unplug the power cord from the power socket when the equipment is not in use.
- Do not place the equipment in a place that is extremely cold or hot.
- Make sure that the equipment is operating in a well-ventilated environment, so as to avoid damage to the equipment caused by overheat and high temperature during operation.
- Unplug the power cord to ensure that the equipment is completely disconnected from the power grid before removing or reinstalling any parts of the equipment, disconnecting or reconnecting any electrical plugs or others of the equipment.
- When the equipment is faulty, do not open the case for maintenance without authorization to avoid accidents or aggravated damage to the equipment.
- Do not place any corrosive chemicals near or on the equipment.

2. After-sales Service Precautions

- The Company provides a three-year free warranty service (including free replacement of parts) over quality issues within the normal use range as from the date of purchase, provided that the equipment is installed and used in accordance with requirements specified in this manual.
- For warranty, the user is required to present the warranty card, the self-retained copy by user and the sales invoice of the equipment as supporting documents.
- The following situations are not covered by the free warranty:

  1．The product is damaged due to improper installation, use or handling;

  2．The product is damaged due to abnormal conditions (such as excessive power supply voltage or ambient humidity);

  3．The product is damaged due to unexpected events such as natural or man-made disasters;

  4．The product serial number is converted, altered or removed;

  5．The product has been repaired or modified by an unauthorized technician.
- Please keep the user manual and warranty card properly.
- For issues and precautions not mentioned in this manual, when necessary, please contact our dealer or visit our website at http://www.dsppatech.com.
- During the warranty period, if the equipment is faulty, please contact our service technician (or the dealer) for maintenance. If the damage is caused by unauthorized disassembly or maintenance by an unauthorized technician, the Company will not be responsible for free warranty.

Packing List

No.	Checklist	Quantity
1	ONVIF Horn Speaker	1
2	User Manual	1
3	Waterproof Network Pair Connector	1
4	4P 3.81 Plug	1

Specifications

Indicators		**Parameters**
Amplifier Output	Rated Power (RMS)	15W 8Ω
	S/N Ratio	≧75dB
	Frequency Response	80Hz-16KHz
Speaker	Driver Unit	2.5"
	Sensitivity	102dB±2dB
	Maximum Sound Pressure Level	115dB±2dB
	Frequency Response	350Hz-6.3KHz
Power Supply		PoE+ (IEEE 802.3at) / DC24V 2A (Standby)
Others	Network Interface	RJ45 (10/100M)
	Power Connector	24V/2A
	Outer Package Dimensions (H×W×D mm)	630*510*335mm (4pcs)
	Machine Dimensions (H×W×D mm)	285*205*291mm
	Gross Weight	10.8kg(4pcs)
	Net Weight	1.9 kg

Caution

- When the power switch of the equipment is in the “off” state, the machine is not completely disconnected from the power grid. For the sake of safety, unplug the power cord from the power socket when the equipment is not in use.
- The equipment cannot be exposed to water droplets or splashes and objects filled with water such as vases cannot be placed on the equipment.
- Do not open the cover of the machine in case of electric shock. If necessary, have it repaired by a certified professional.
- The terminals marked with the symbol ϟ on the equipment are hazardous live parts, and the connection of these terminals must be completed by an instructed technician.
- The equipment is connected to the power grid through a power cord. When the equipment is faulty or dangerous, it can be disconnected from the power grid by unplugging the power cord. Therefore, it is required to place the power socket in a place where it is convenient to plug and unplug the power cord.

Guangzhou DSPPA Audio Co., Ltd.