Let Your Camera Systems Have the Voice

IP Horn Speaker

COMBINE VIDEO & AUDIO

Combined video and audio systems automate the primary response to emergency situations and help you respond immediately with a live announcement.

Surveillance Endpoint Device	Analyze and Detect Video Content Analysis Software	Manage and Record Video Management Software	Alert IP Horn Speaker

Adding an audio device in your Video Management Software (VMS) is a simple three step process.

1 **Connect an IP Horn Speaker to your VMS network with a single LAN cable.**

2 **Open the VMS and assign an IP address to the IP Horn Speaker.**

3 **Register the IP Horn Speaker to your VMS as either a camera device or an audio device. (*It can be detected as a generic ONVIF device by using ONVIF protocol.)**
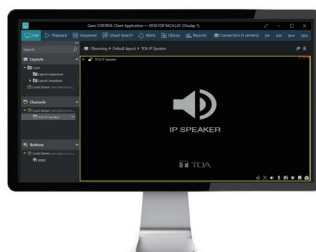
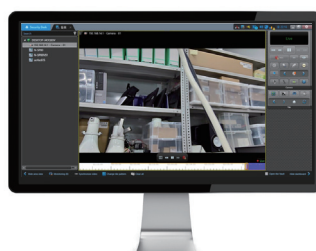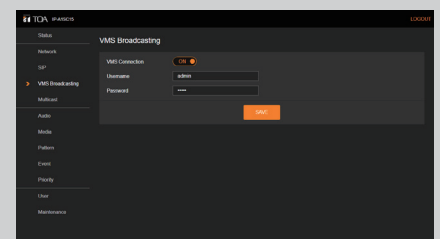Endpoint Device   CODEC   Video Management Software

H.264

PCMU

H.264

PCMU

Easily adjust volume and set priority with intuitive web browser.

USE YOUR FAVORITE NETWORK PROTOCOL

The IP Horn Speaker supports various industrial network protocols and has four different audio broadcasting modes. Seamlessly integrate audio endpoint devices into your go-to system.

SIP DIRECT CALL

Live Voice Announcement

Audio Codec: PCMU(G.711u) / PCMA(G.711a) / G.722
Supports both P2P connection and SIP server connection.

SIP Phone

MULTICAST STREAMING

Group Broadcasting

Audio Codec: PCMU(G.711u) / PCMA(G.711a) / G.722
Supports up to 10 different groups.

SIP Phone

VMS BROADCAST

Live Voice Announcement

Audio Codec: PCMU(G.711u)
Receive broadcast from VMS via ONVIF audio backchannel.

VMS Client PC
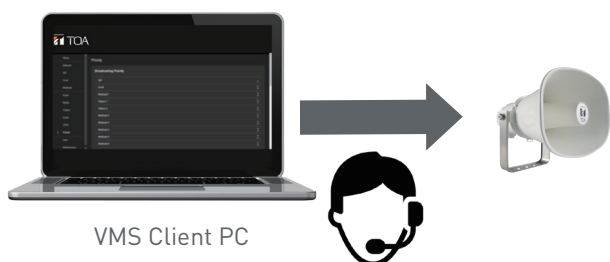
REMOTE API

Audio Playback

Audio File Format: WAV / MP3 file
· Playback and repeat up to 20 sound sources
· Up to 30 MB per file and up to 80 MB total

Video Management Systems

HTTP Command

Contact Input

Sensor Systems

FLEXIBLE AUDIO PRIORITY MANAGEMENT

The speaker is equipped with the internal priority management function to set priorities between different broadcasts distributed by using common protocols such as SIP or ONVIF, in order for important messages to override others.
This allows you to take swift actions in emergency situations.

Sensor Systems

MOTION DETECTED

Video Management Systems

✔ Activate speaker and playback prerecorded messages

✔ Zoom in the camera location

✔ Alert the monitoring center and security officers to a potential threat

Warning: You are trespassing on private property

Repeat, you are ...

You are not authorized in this area...

1. Start playing back a prerecorded warning message and alert security officer.

2. Security officer can switch to SIP call and start live announcements immediately after confirming the situations.
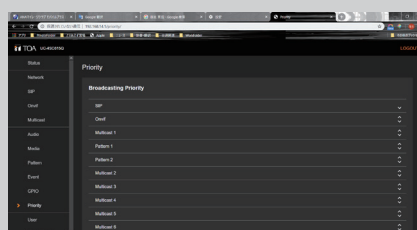
OPTIMIZE
SOUND VOLUME

The IP Horn Speaker offers fine volume control using Remote API which allows volume adjustments for different listening environments.

5:00 AM	11:00 AM	9:00 PM

Offset Volume Adjustment Function allows you to increase or decrease sound volume and set volume level by time of day.

Offset Volume   Master Volume

Other applications

Regulating sound pressure level to adapt for varied distances is no longer an issue.

+0 dB

+6 dB

Danger!

This coastline is natu...
crashing waves and c...

Rocks are slippery. La...
waves sweep people c...

Play it safe – don't cl...
or go into the wate...
carried out to sea...

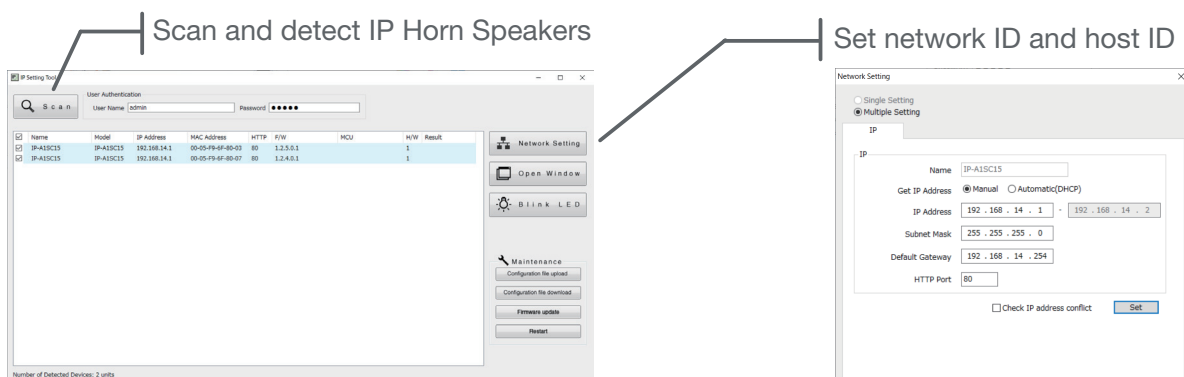Keep people safe with loud and clear voice announcements.

KEY FEATURES

- Maximum sound pressure level is **124 dB** at **15 W** powered with PoE+
- Operating temperature is **-30°C to +55°C (-22°F to +131°F)**
- Up to **20 sound sources** can be pre-recorded
- Individual volume level adjustment for each audio source

Uniform sound level ensures listener-friendly voice announcements and audio playbacks. You can correct the input level of your sound sources one by one and set it to one standard.

VMS Broadcast
SIP Direct Call
SIP Multi-cast
Pre-recorded message 1
Pre-recorded message 2
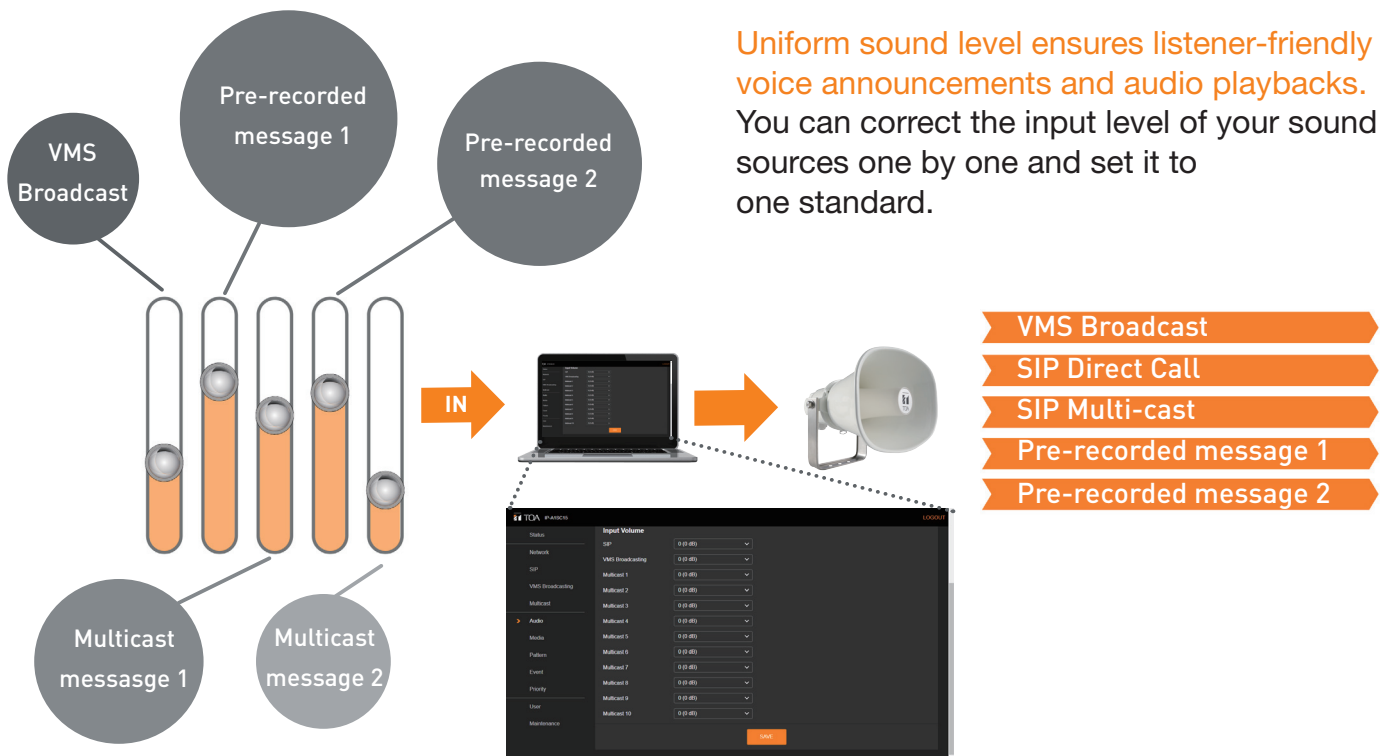
IP SETTING TOOL

The IP Setting Tool allows you to assign IP addresses to all IP Horn Speakers at once. Once you set the network ID and host ID for the first one, it will automatically assign IP addresses for the remaining devices one at a time.

Scan and detect IP Horn Speakers

Set network ID and host ID

SPECIFICATIONS

Model No.	**IP-A1SC15**
Power Source	PoE+ (IEEE802.3at Class 4), PoE (IEEE802.3af Class 3)
Power Consumption	22 W (at PoE+ powered, rated output) 13 W (at PoE powered, rated output) 5 W (IEC62368-1)
Amplifier Rated Output	15 W (at PoE+ powered), 8 W (at PoE powered)
Sensitivity	112 dB (1 W, 1 m) (500 Hz - 2.5 kHz, peak level)
Maximum Sound Pressure Level	124 dB (at PoE+ powered, 15 W, 1 m) (500 Hz - 2.5 kHz, peak level) 121 dB (at PoE powered, 8 W, 1 m) (500 Hz - 2.5 kHz, peak level)
Frequency Response	280 Hz - 12.5 kHz
Audio Codec	PCMU (G.711u), PCMA (G.711a), G.722
Broadcasting Mode	SIP Broadcasting Mode: PCMU/PCMA/G.722 Multicast Broadcasting Mode: PCMU/PCMA/G.722, Max.10 ports VMS Broadcasting Mode: Audio Backchannel, PCMU Internal Message Broadcasting Mode **Note**: Each broadcast mode can be assigned an order of priority using the Priority Setting function.

Internal Messages	Max. 20 messages (Max. recording capacity: 80 MB)
	Supported file formats
	  WAV file: 8/16/44.1/48 kHz sampling frequency, 8/16 bit, monaural/stereo
	  MP3 file: 32/44.1/48 kHz sampling frequency, 64 - 320 kbps, CBR/VBR, monaural/stereo
	Repeat count: 1 - 10 times
	Interval time: 0 - 30 sec
	Trigger: Control Input or Remote API (HTTP)

Network I/F	100BASE-TX, MDI/MDI-X, RJ-45
Network Protocol	TCP/IP, UDP, HTTP, RTP, ARP, ICMP, RTSP, SIP (RFC3261)
Control Input	2 channels, no-voltage make contact inputs, open voltage: 5 V DC, short-circuit current: 2 mA or less, removable terminal block (3 pins)
Control Output	1 channel, open collector output, withstand voltage: 30 V DC, control current: 10 mA or less, removable terminal block (3 pins)
Indicator	LAN LINK/ACT (green), STATUS (orange)
Dust/Water Protection	IP66
Operating Temperature	-30 °C to +55 °C (-22 °F to +131 °F)
Operating Humidity	90 % RH or less (no condensation)
Finish	Horn flare and body: Aluminum, off-white (RAL 9010 equivalent), paint Reflector horn: ABS resin, off-white (RAL 9010 equivalent) Rear cover: PC resin, off-white (RAL 9010 equivalent), paint Bracket, screws and bolts: Stainless steel
Dimensions	222 (W) X 211 (H) X 276 (D) mm (8.74" X 8.31" X 10.87")
Weight	1.4 kg (3.09 lb)
Accessory	Rear cover ···1, Removable terminal plug (3 pins) ···2
Option	Speaker mount bracket: SP-131, SP-201, SP-301 Pole band: YS-60B

Personal Computer Requirements

OS	Windows* 10 Pro (64 bit) Windows* 10 Home (64 bit)
Web Browser	Google Chrome** Microsoft Edge*

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**   Google Chrome is the trademark of Google LLC in the United States and other countries.

   Note: Other company names and products are also trademarks of individual companies.