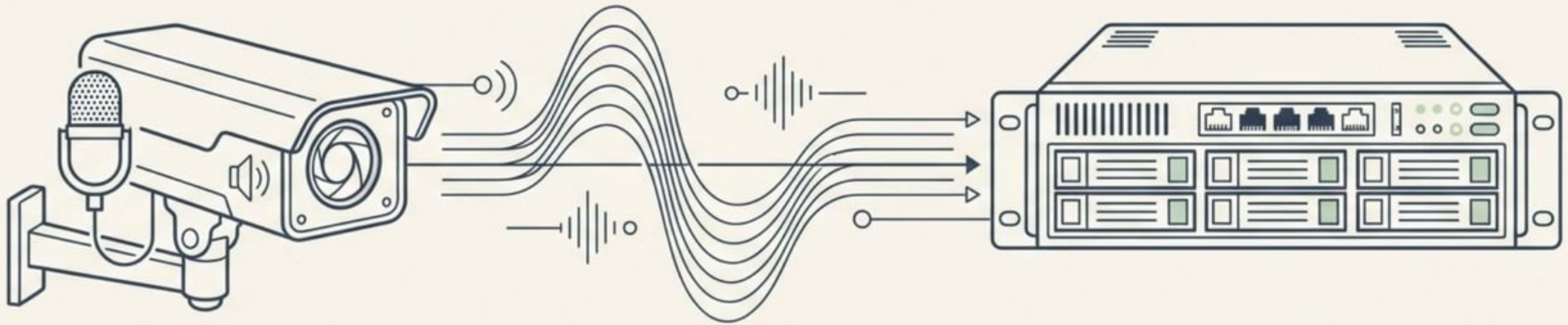


Audio Streaming

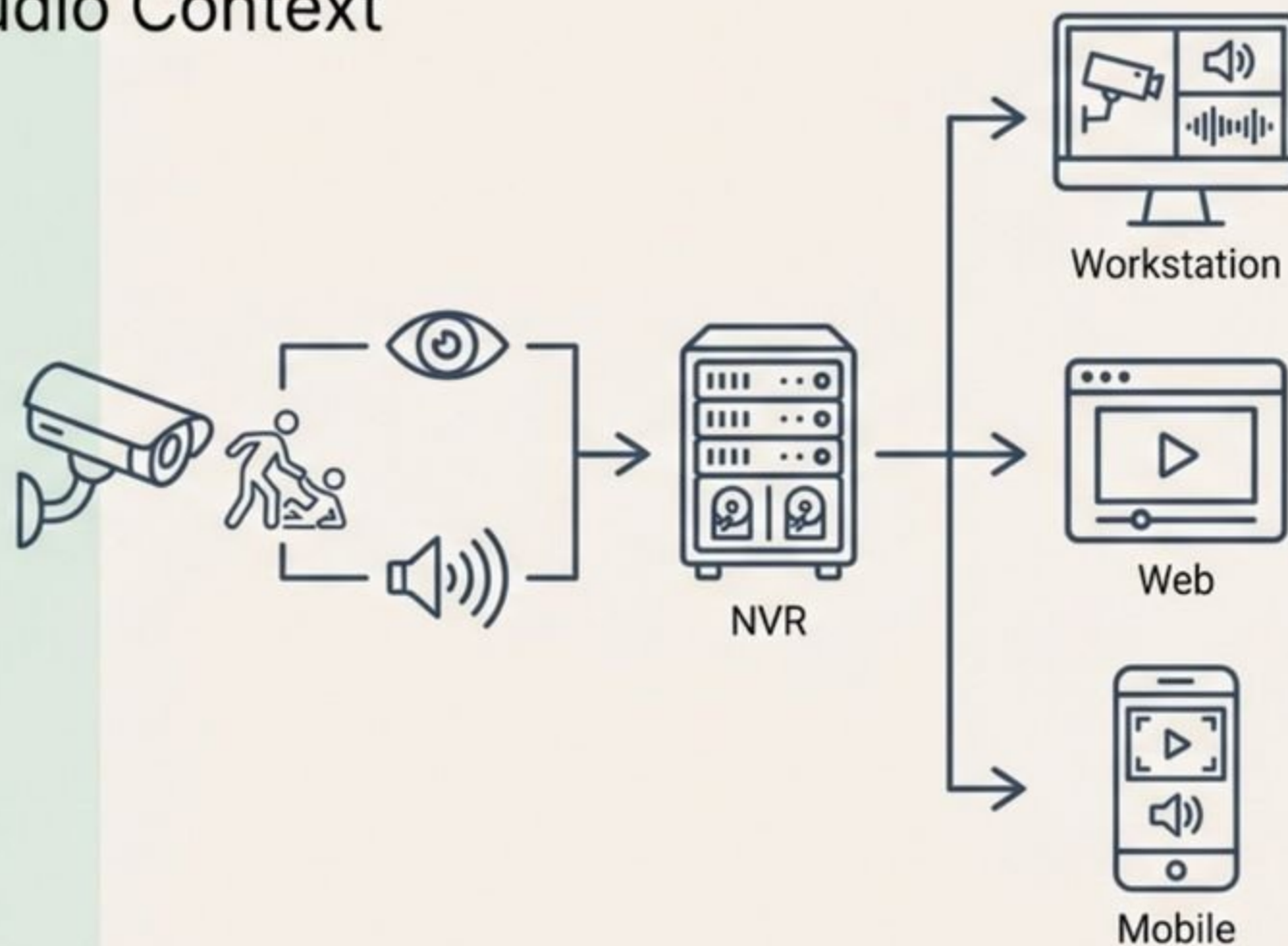
Incoming or Outgoing Audio Solutions for IP Cameras



Overview

Enhancing Video Evidence with Audio Context

- **The Value of Audio:** Recorded sound is a critical addition to video evidence for holistic site monitoring.
- **Total Solution Ecosystem:** ACTi VMS fully supports audio-in, enabling guards to hear real-time audio via NVR clients (Workstation, Web, Mobile).
- **Playback & Export:** Hear audio during video playback and export synchronized AVI or MP4 files with sound included for crime investigators.
- **Beyond Investigation:** Supports operational uses such as 2-way intercoms at building entrances or parking lots.



Features

Core Capabilities of ACTi Audio Solutions



What is Audio-in?

Full VMS support to hear live audio, playback recordings, and export AVI/MP4 files for complete evidence handling.



Types of Audio-in: Support for both passive microphones and active microphones (built-in amplifiers).



How to Provide Power for the Active Microphone?

Eliminate extra wall outlets by powering 4-wire active mics directly via the camera's Digital Output (PoE).



What is Audio-out?

Connect external speakers to the camera to allow control room operators (using VMS clients) to broadcast voice commands to the site.

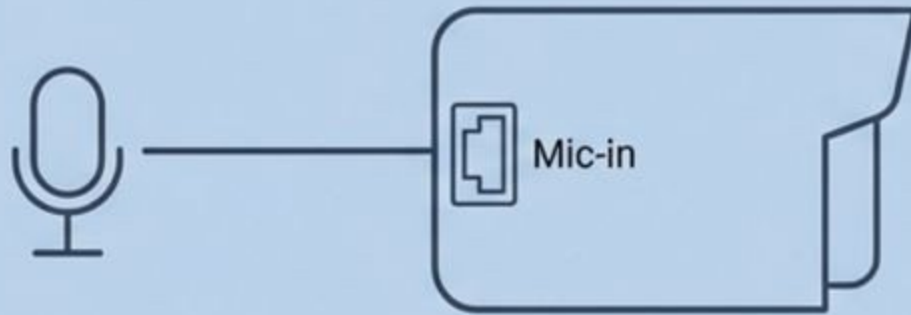


Can audio levels be adjusted?

Yes, easily configure audio-in sensitivity (amplification) and audio-out speaker volume directly via the camera's web interface.

Architectures

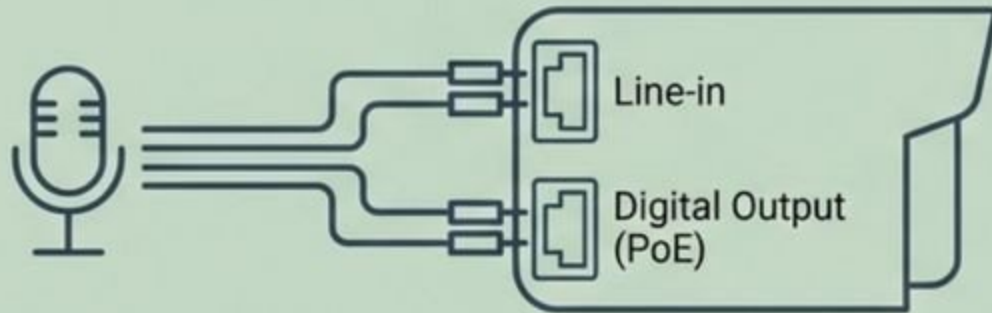
Microphone Connection and Power Topologies



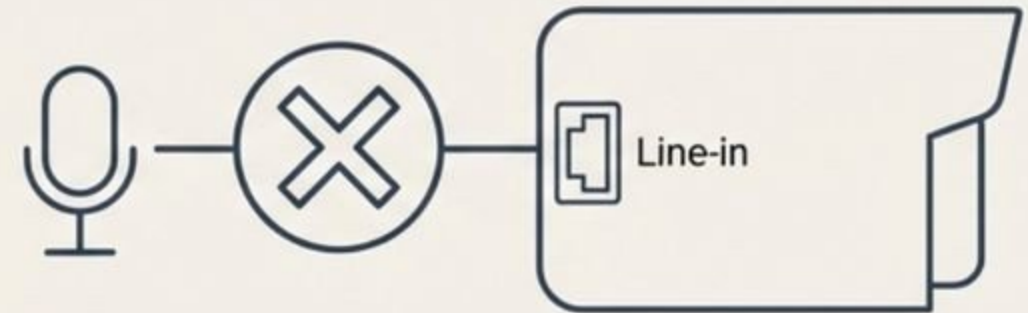
Type 1: Passive microphone connected to Mic-in connector.



Type 2: Built-in microphone with integrated amplifier.



Type 3: Active microphone connected to Line-in. Power is supplied via the camera's Digital Output.



Type 4 (Warning): Do not connect a passive microphone to a Line-in port.

Applications Vertical Markets for Audio Deployment

Security Applications (Audio as Evidence)

- Target Markets: Retail stores, airports, schools, government buildings.
- Use Case: Capturing audio of visitors or trespassers to document incidents.
- Emergency Response: Using Audio-out for critical emergency broadcasts during fire alarms or security threats.



Intercom (Audio as Communication)

- Target Markets: Service entrances, parking structures, restricted access zones.
- Use Case: Two-way service intercoms. Security officers can use audio to verify a person's identity before executing access-related decisions.

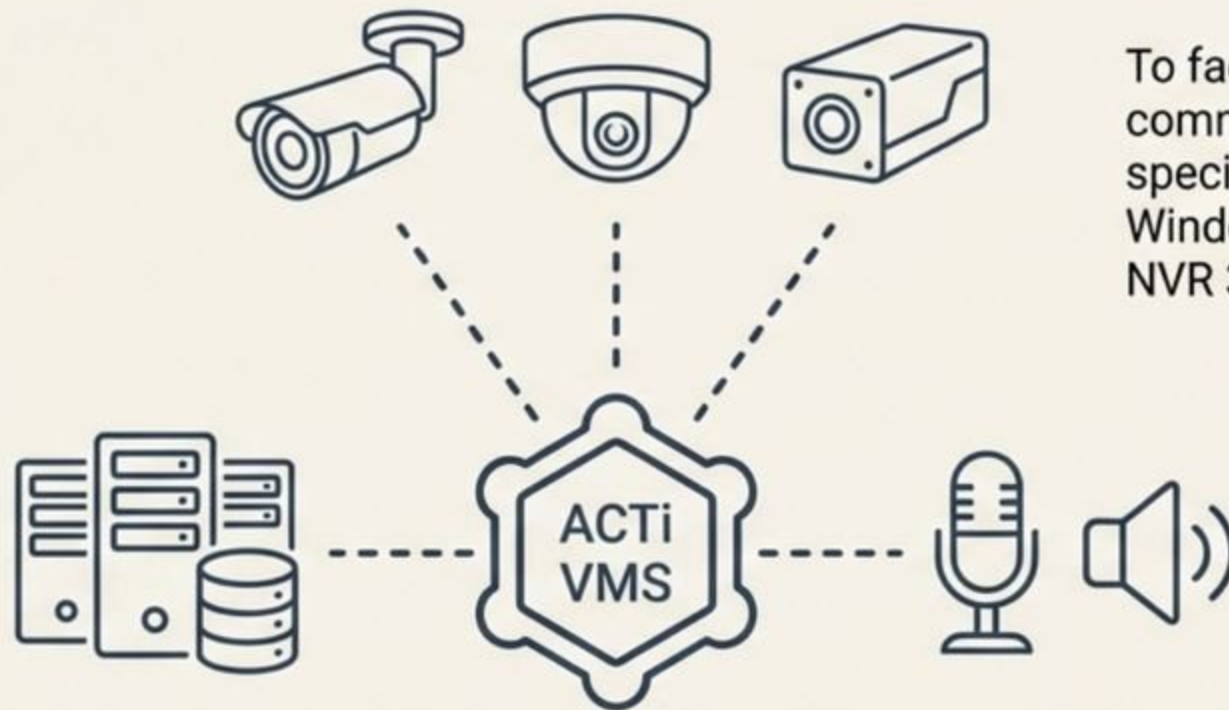


Solutions

VMS Integration and Hardware Synergy

Universal Recording

Record and monitor audio-in using any ACTi VMS platform. Most ACTi cameras support audio-in via built-in mics, mics, line-in, or mic-in interfaces.



Audio-Out Platforms

To facilitate operator-to-site communication (Audio-out), it is specifically recommended to use Windows-based VMS products: NVR 3 or CMS 2.

Curated Microphone Selection

For cameras requiring external audio, ACTi offers a curated selection of verified microphones (available via acti.com related products).

Product Introduction

Comprehensive Audio-Supported Hardware Matrix

ACTi offers a vast array of audio-capable hardware to suit any deployment scale. Products are categorized by form factor and performance tier. Key differentiators mapped below include Resolution (MP) and primary feature sets (Zoom ratio, Extreme/Superior WDR, Thermal capabilities).



Bullet



Dome



Turret



PTZ / Speed
Dome



Box



Fisheye /
Hemispheric



NVR / Server

Product Matrix

Fixed, Zoom, and Thermal Cylindrical & Rectangular Models

Box Series (Rectangular)



- A213 / A29 / E217 (2MP-5MP, Fixed, Extreme WDR)
- A214 (5MP, 40x Zoom, Extreme WDR)
- Q22 (2MP, Basic WDR)

Bullet Series - Thermal (Cylinder)



- A371 to A377 Series (4MP-5MP, Superior WDR)
- K371 / K372 Series (4MP, Superior WDR)
- VMGB-359 to VMGB-371 (4MP, Superior WDR)

Bullet Series - Zoom & Fixed (Cylinder)



- A410 / A422 / A423 (4MP-6MP, 5x Zoom, Extreme WDR)
- Z315 to Z332 Series (2MP-8MP, Fixed, Superior/Extreme WDR)
- Z411 to Z429 Series (2MP-8MP, Up to 22x Zoom, Extreme WDR)
- K31 / K32 / K33 (2MP-5MP, Fixed, Extreme WDR)

Product Matrix

Fixed and Zoom Hemispheric & Eyeball Models

Dome Series - Zoom (Hemisphere)



- A810 / A811 / A820 (4MP-5MP, 5x Zoom, Extreme WDR)
- Z810 to Z819 Series (2MP-8MP, Up to 5x Zoom, Superior/Extreme WDR)
- VMGB-601 / VMGB-602 (2MP, 4.3x Zoom, Extreme WDR)

Dome Series - Fixed (Hemisphere)



- A76 / A77 (4MP-6MP, Extreme WDR)
- Z714 / Z721 / Z724 (4MP-8MP, Extreme WDR)
- Z910 to Z914 Series (2MP-8MP, Superior/Extreme WDR)

Turret Series (Conch/Eyeball)



- A570 / A571 Thermal Turrets (4MP, Superior WDR)
- Q550 (8MP, 2-Sensor 180°, Extreme WDR)
- Z510 to Z56 Series (2MP-8MP, Fixed, Superior/Extreme WDR)
- Z81 / Z82 / Z87 Series (2MP-4MP, 4.4x Zoom, Extreme WDR)

Product Matrix

Speed Domes, Panoramic, and Intercom Systems

PTZ & Positioning Systems (Rotating Spherical)



- A952 / A962 / A967 (5MP-8MP, Up to 36x Zoom, Extreme WDR)
- A972 / A973 Thermal PTZ (4MP, 32x Zoom, Superior WDR)
- K9001 (32MP Multi-Imager, 42x Zoom, Superior WDR)
- Q981 / Q991 / Q992 Positioning Systems (4MP-8MP, Up to 56x Zoom, Superior WDR)
- Z952 to Z959 Series (4MP-8MP, Up to 33x Zoom, Extreme WDR)

Fisheye, Hemispheric & Multi-Sensor (360-degree)



- A711 / B76A (12MP Hemispheric, Extreme WDR)
- E16 (10MP Fisheye Cube, Basic WDR)
- Q84 (20MP 4-Sensor 360°, 5x Zoom, Extreme WDR)

Door Stations & Covert



- Q950 Door Station (6MP, Extreme WDR)
- Q970 Intercom (2MP, Basic WDR)
- Q113 / Q115 Covert (2MP-5MP, Basic WDR)

Product Matrix

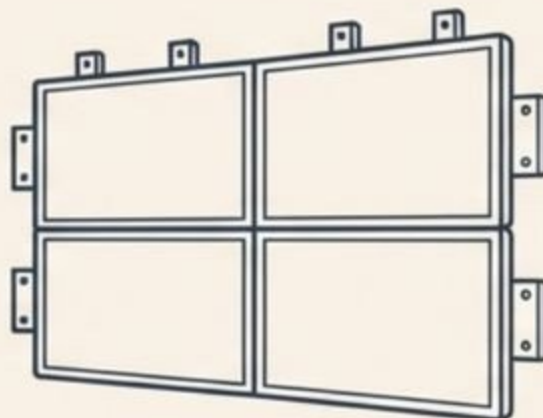
Standalone Servers, Decoders, and IP Speakers

NVRs & Management Servers



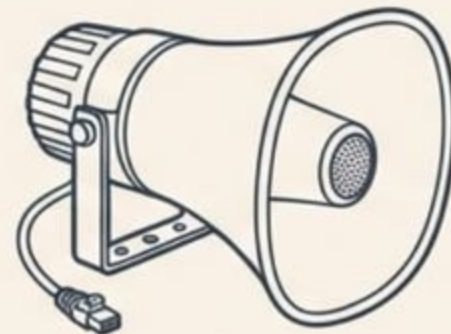
- ZNR Series: ZNR-127 through ZNR-431 (Scalable recording)
- INR / GNR / ENR / BNR Series
- CMS-100 / CMS-201 (Central Management)
- MMS-100 (Standalone Media Management Server)
- SHM-102 (System Health Management Server)

Video Decoders & TV Wall



- ECD-200 (Universal ACTi Video Decoder)
- TVW-100 / TVW-301 (TV Wall output)

Audio Devices



- PSPK-0004 / PSPK-0005 / PSPK-0006 (Dedicated IP Speakers for Audio-out broadcasts)

Comparison

Audio-In Microphone Deployment Matrix

Feature	Passive Microphone	Active Microphone
Built-in Amplifier	No	Yes
Required Camera Interface	Mic-In	Line-In
Power Requirement	None	Additional Power Supply Required
Power Delivery Method	N/A	PoE via Camera Digital Output (or external adapter)
Best Use Case	Small, quiet indoor areas	Large areas requiring high signal sensitivity and longer cable runs.

Summary

Key Takeaways for System Integrators



Comprehensive Evidence: Integrating high-quality audio transforms standard surveillance into definitive incident documentation and enables active access-control intercom workflows.



Simplified Architecture: Leveraging the camera's Digital Output (DO) to power active microphones eliminates the need for external wall outlets, streamlining deployment.



End-to-End Ecosystem: With seamless 2-way audio support across NVR 3 and CMS 2, and an exhaustive matrix of audio-capable edge devices, ACTi provides scalable solutions for any vertical market.

Contact Us

Partner with ACTi Today



Website: www.acti.com



Email: sales@acti.com



Phone: +886-2-2656-2588 / +1-866-410-ACTi (2284)



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