



Build a Safer, Smarter And More Responsive Urban Communication Network



- ◆ Emergency Intercom
- ◆ Public Broadcasting
- ◆ Audio Deterrence
- ◆ Platform Integration
- ◆ Centralized Audio Management



ZYCOO IP Audio Solution for Smart Pole

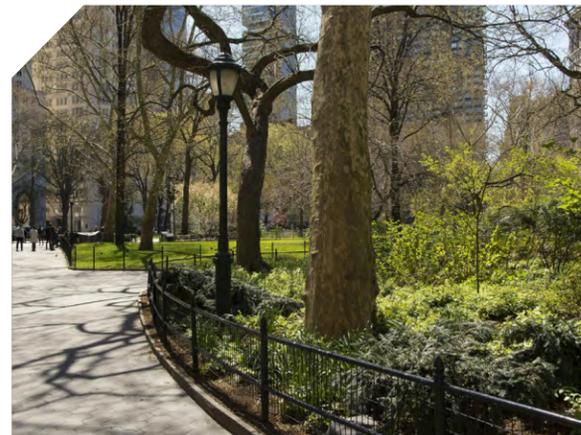
OVERVIEW



In smart city development, smart poles are evolving from simple lighting infrastructure into multi-functional urban nodes that integrate communication, security, broadcasting, and emergency services. A stable, centrally managed, and fast-response audio communication system has therefore become a critical foundation for smart pole deployments.

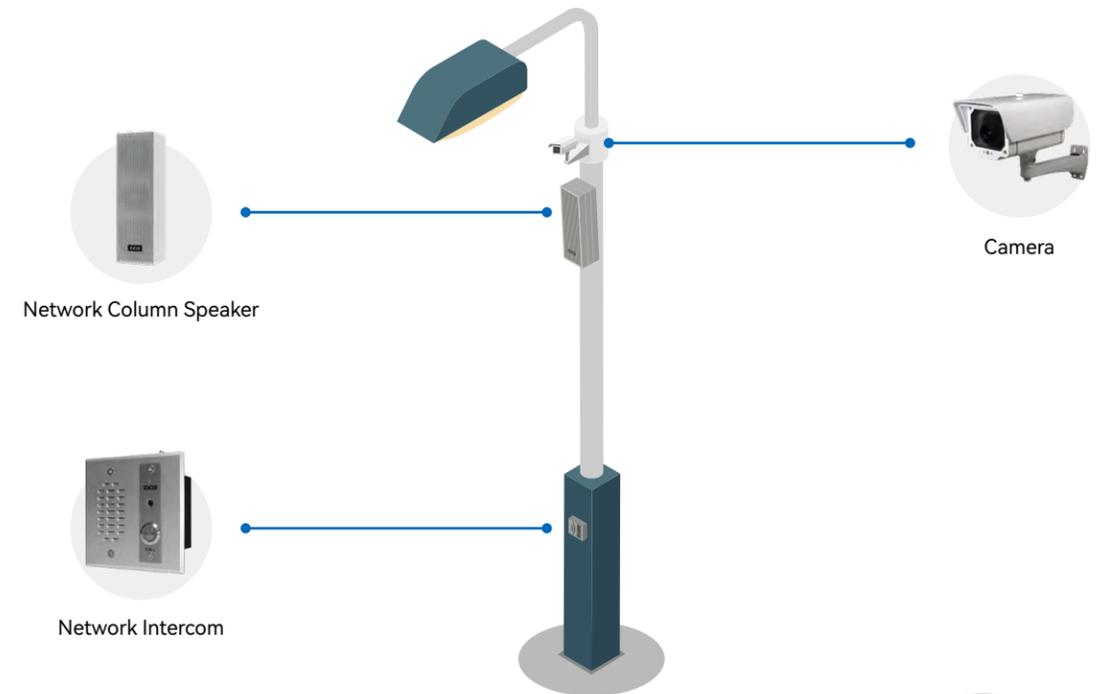


The ZYCOO Smart Pole IP Audio Solution is built around the IP Audio Center, breaking the isolated architecture of traditional broadcasting systems. It unifies pole broadcasting, emergency intercom, audio deterrence, background audio, and city command dispatch on a single platform.



With Zycoo Smart Pole Solution, cities can easily achieve:

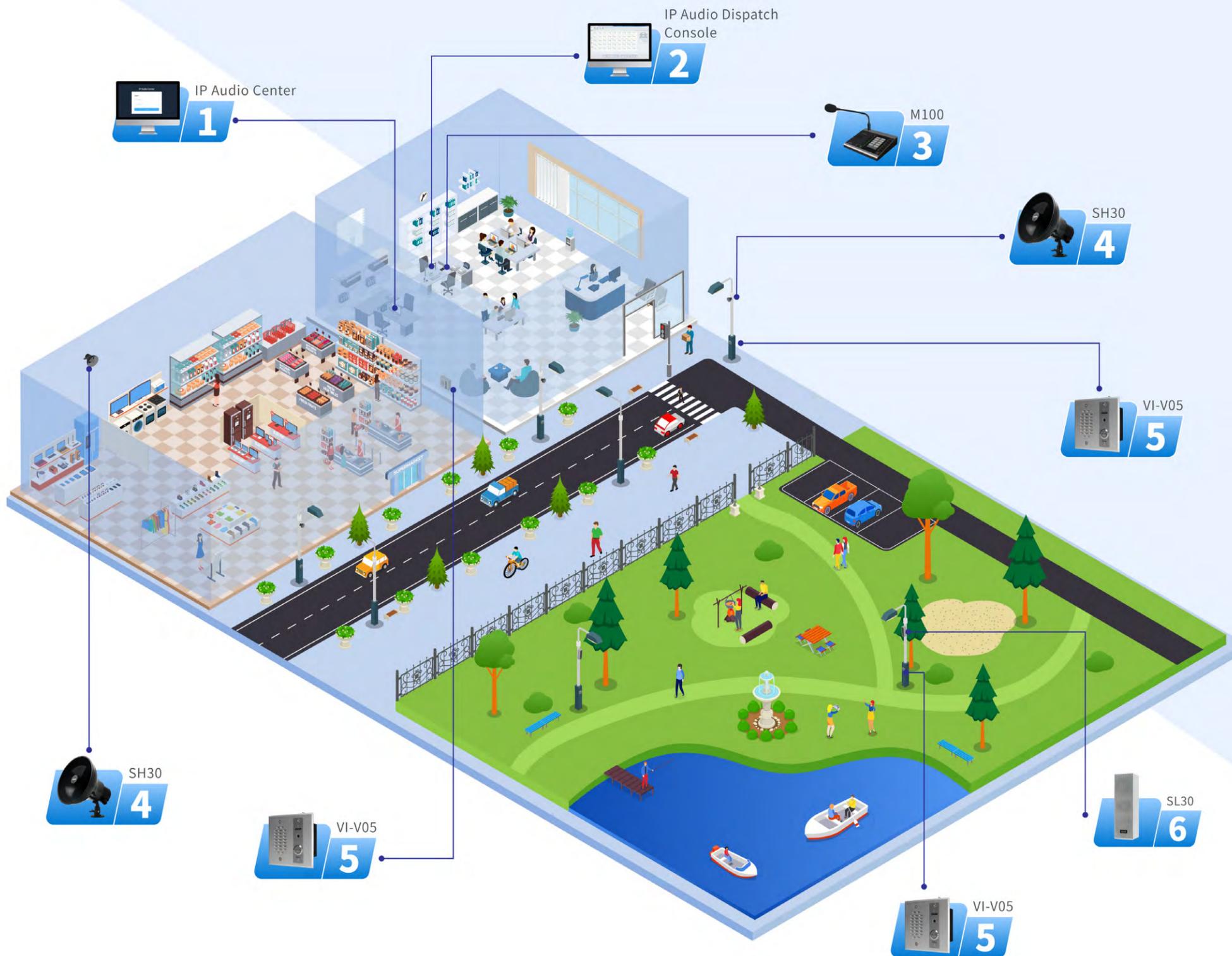
-  City-wide broadcasting across streets and public spaces
-  One-touch emergency intercom
-  Intelligent voice deterrence and remote live paging
-  Zoned background audio and scheduled playback
-  Unified communication for multi-department coordination
-  A Centralized emergency broadcasting framework



With the IP Audio Dispatch Console, operators can centrally monitor all pole audio devices, perform zone paging, initiate live announcements, and trigger emergency responses, significantly improving urban operational efficiency and public safety responsiveness.



DEPLOYMENT IN SMART POLE



RECOMMENDED TECHNOLOGY

1



IP Audio Center

The ZYCOO Smart Pole IP Audio Solution is built around the IP Audio Center, breaking the isolated architecture of traditional broadcasting systems.

2



IP Audio Dispatch Console

With the IP Audio Dispatch Console, operators can centrally monitor all pole audio devices, perform zone paging, initiate live announcements, and trigger emergency responses, significantly improving urban operational efficiency and public safety responsiveness.

3



M100 Network Microphone Console

Central management tool for store-wide paging and zone announcements with quick broadcast control when paired with the H4P IP Phone.

4



SH30 Network Horn Speaker

Outdoor horn speakers provides powerful, weatherproof outdoor paging for parking lots, drive-through lanes, and storefront alerting.

5



VI Series Network Intercoms

SIP intercoms offer secure two-way communication for stockrooms, back doors, and access control points, supporting staff coordination and security.

6



SL30 Network Column Speaker

Outdoor column speaker offers high-clarity paging and realtime announcements for the parking area with sensor integration for a safety alarm.

FOCUS AREAS



Streets & Roadways

Streets require strong sound penetration and long-distance projection for traffic guidance and emergency broadcasting. Deploying VI-V05 provides pedestrians with a one-touch emergency access point for two-way audio and video communication with the control center.



Parks & Leisure Areas

Leisure areas focus on ambient atmosphere and visitor safety. SL30 column speakers provide high-quality BGM coverage. Deploying VI-V05 enables instant communication between visitors and security staff, ensuring assistance during emergencies.



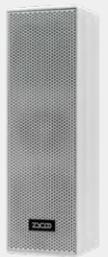
SH30



- ◆ Daily announcement
- ◆ Centralized management
- ◆ Voice paging
- ◆ Certified in IP65 water & dust proof
- ◆ High volume emergency alarm

SL30

- ◆ Emergency alarm
- ◆ Voice paging
- ◆ Park guidance & Daily announcement
- ◆ Certified in IP65 water & dust proof
- ◆ Centralized management



VI-V05

- ◆ One-touch intercom
- ◆ Emergency call trigger
- ◆ Real-time video during intercom sessions
- ◆ Centralized device management
- ◆ Vandal-resistant metal panel
- ◆ Tamper alarm design



VI-V05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Provide video screen during intercom
- ◆ Centralized management
- ◆ vandal-proof plate
- ◆ Tamper alarm design





Public Squares & Commercial Zones

Crowded public spaces require high-SPL broadcasting to ensure information reaches large audiences. SH30 network horn speakers enable wide-area announcements and emergency guidance, while VI-V05 intercom act as public emergency help points to enhance safety and deter criminal activity.



Command & Control Center

The command center collects and processes field data for centralized coordination. Using dispatch software and hardware consoles, operators can manage device status, perform live paging, handle emergency calls, and coordinate city-wide communication.



SH30



- ◆ Daily announcement
- ◆ Centralized management
- ◆ Voice paging
- ◆ Certified in IP65 water & dust proof
- ◆ High volume emergency alarm

M100



- ◆ Initiate live paging
- ◆ Two-way Intercom
- ◆ Send daily announcement
- ◆ Serverless paging
- ◆ Serverless audio playlist
- ◆ Serverless alarm sound
- ◆ Event scheduler
- ◆ Remote door manage
- ◆ Remote relay control

VI-V05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Provide video screen during intercom
- ◆ Centralized management
- ◆ vandal-proof plate
- ◆ Tamper alarm design



IP Audio Dispatch Console

- ◆ Initiate live paging
- ◆ Intercom
- ◆ Real-time device status monitoring
- ◆ Send daily announcement
- ◆ Meeting
- ◆ Operate music playback
- ◆ Operate PBX advanced features
- ◆ Tasks scheduling



BENEFITS

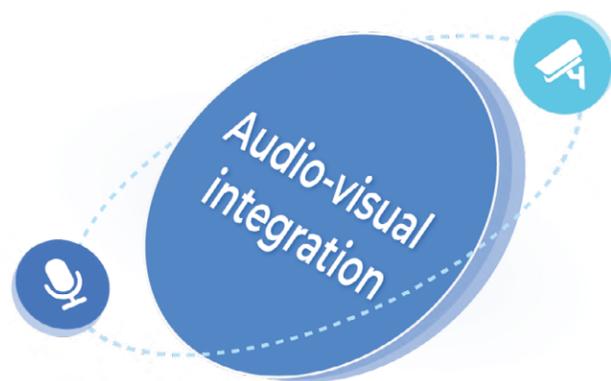
01. Centralized Management & Scalable Deployment

Based on IP network architecture, the system enables unified management of audio terminals across distributed smart poles. Operators can monitor device status, adjust volume, and perform zone paging through a single platform, supporting scalable deployment from individual streets to large urban districts.



02. Audio-Visual Linkage & Remote Dispatch

By integrating with smart pole surveillance systems, operators can initiate live announcements or play preset audio prompts when incidents are detected. This audio-visual coordination improves public order management and enables faster response to on-site situations.



03. Reliable Design for Outdoor Environments



Designed for outdoor smart pole installations, the speakers and intercom devices feature aluminum enclosures or reinforced metal panels with IP65-rated dust and water protection. Heartbeat detection and automatic reconnection mechanisms ensure stable communication even under harsh weather conditions.

04. Standard Compatibility & Multi-Platform Coordination

The solution supports standard SIP protocols, enabling integration with smart pole management platforms and command center systems. This ensures that paging and emergency intercom functions become essential modules within the overall smart pole infrastructure, enabling coordinated urban communication.

