



INOGENI CAMTRACK Pro

ProdCode: INOCAMTRACKPRO

Voice-activated multi-camera switcher



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Features

- Voice-activated multi-camera switcher
- Complete SHURE integration
- Broad PTZ support
- Full INOGENI switcher compatibility

INOGENI's CAMTRACK is the most flexible, and cost-effective voice-activated multi-camera switcher designed for modern conferencing environments.

CAMTRACK integrates with SHURE microphones to detect the active speaker's voice, triggering PTZ camera presets and AI tracking (when supported). It then communicates with an INOGENI switcher to route the appropriate video feed seamlessly into the conferencing system. The system provides automated camera control and video switching for conference rooms, hybrid meetings, and live events.

Seamless integration and setup

Complete SHURE integration – Works seamlessly with advanced multi-zone microphones (MXA901 and MXA920), multi-channels (MXA310, MXA710 and MXA910) as well as wireless MXW neXt and MXCW conference systems. It also supports triggers from the P300 DSP, IntelliMix Room software and ANIUSB-MATRIX network interface. Each device supports up to 8 audio zones (or more with the MXA901 and 920), while MXCW conference systems can accommodate up to 125 microphones as a single unit, ensuring accurate speaker tracking and crystal-clear audio and video in hybrid meetings.

Broad PTZ support – CAMTRACK works with an extensive list of PTZ camera manufacturers, including Canon, AVer, Sony, Panasonic, and virtually any PTZ IP camera.

Full INOGENI switcher compatibility – Supports USB, HDMI, NDI, and RTSP cameras, including native CAM230 and CAM300 switchers and NDI sources via IP2USB for flawless integration of all camera types.

Smart voice-activated configuration made easy

Simple setup with a step-by-step setup assistant. No programming is required. A built-in, context-sensitive digital guide walks users through every step.

Fast deployment: Duplicate and share configurations across multiple CAMTRACK devices.

Intelligent camera orchestration and flexibility

- Smart multi-camera management – CAMTRACK intelligently determines the active camera in real time using precise audio localization

- Full PTZ controls and preset-based camera controls with VISCA over IP or Sony HTTP, Canon XC Control and Panasonic AW
- Seamless transition using INOGENI's CAM series switchers or NDI® paired with the IP2USB
- Up to 10 customizable room presets for varied configurations (including divisible spaces)
- AI tracking transparency – Our switchers enables AI-equipped cameras to engage their auto-framing or tracking features automatically or when a preset is recalled
- Flexible power options – PoE (IEEE 802.3af) or optional Micro-USB power input
- Camera tally activation – Indicator lights show which camera feed is active on supported IP cameras
- Compact and versatile design – Fanless operation and flexible mounting options simplify integration into any AV environment
- Flexible communication – Supports HTTP, WebSocket, and TCP/IP for integration with third-party control systems via API
- Tested and compatible by design with major UC systems and camera manufacturers, such as Crestron, Logitech, Lenovo, Poly, MAXHUB, Jabra, Teams, Zoom, and others

How the CAMTRACK Ecosystem works

The CAMTRACK ecosystem brings audio and video together in a seamless, unified workflow, enabling dynamic, professional-grade videoconferencing. By using SHURE microphones to detect active speakers, CAMTRACK intelligently manages PTZ cameras over the IP network and works with INOGENI switchers or the IP2USB converter to ensure the right camera view is delivered to Room PCs or laptops running software CODECs — making every meeting smooth and effortless.

Components of the ecosystem:

- CAMTRACK – Central controller managing audio-driven camera switching
- SHURE microphone(s) – Detects active speaker zones
- Multiple PTZ cameras – Positioned around the room for optimal coverage
- IP network – Connects all devices for real-time communication
- INOGENI switcher or IP2USB converter – Delivers the video feed to USB, HDMI, or NDI compatible endpoints
- Videoconferencing – Room PCs or laptops running software-based meeting platforms (e.g., Microsoft Teams, Zoom, or other soft CODECs).

CAMTRACK Applications by Room Type

CAMTRACK accommodates a wide range of needs—from medium corporate meeting rooms and classrooms to large boardrooms, lecture halls, and complex broadcast delegate environments (supporting up to 12 PTZ cameras).

Two scalable versions that accommodate a wide range of room sizes:

- CAMTRACK: Supports up to 4 SHURE devices and 8 PTZ cameras
- CAMTRACK PRO: Supports up to 8 SHURE devices and 12 PTZ cameras

Corporate spaces:

- Medium meeting rooms: 2-4 PTZ cameras
- Boardrooms/large conference rooms: 4-8 PTZ cameras
- Large space: 8-12 cameras

Educational spaces:

- Classrooms: 2-4 PTZ cameras
- Auditoriums/lecture halls: 2-8 PTZ cameras
- Divisible spaces: 4-12 PTZ cameras

Broadcast and live events:

- Stages/live productions: 2-12 PTZ cameras
- Houses of worship/large events: 2-12 PTZ cameras
- Delegate environments: 6-12 PTZ cameras

Device Functionalities

CAMTRACK automates your AV setup for seamless, dynamic meetings by detecting active speaker zones through SHURE microphones. It controls the appropriate PTZ camera, preset, or AI tracking mode, managing switching between USB/HDMI cameras through CAM230, or CAM300 switchers, as well as NDI/RTSP cameras via the IP2USB converter, delivering the video signal instantly to Room PCs or videoconferencing systems.

Choose between two scalable versions tailored for rooms of any size:

- CAMTRACK: Supports up to 4 audio devices and 8 PTZ cameras
- CAMTRACK PRO: Supports up to 8 audio devices and 12 PTZ cameras

Compatibility

- Fully compatible with SHURE microphones and PTZ cameras.

- The ecosystem has been tested and verified for native compatibility through INOGENI switchers:
 - With major UC systems manufacturers (Room PCs), such as Crestron, Logitech, Lenovo, Poly, MAXHUB, Jabra, and more
 - With Windows, macOS and Linux

Networking and Interfaces

- 10/100 Mbps Ethernet port (LAN/PoE)
- IP protocol support: DHCP, APIPA fallback and manual address configuration

Camera Control

- VISCA over IP (AVer and other)
- Canon XC Protocol
- HDMI/USB and NDI switch triggering

Supported Camera Devices

- Canon, PTZ cameras (XC protocol) – 4K resolution with AI-based auto-tracking and optical zoom options.
 - Models: CR-N100 and CR-N300 for videoconferencing, and the CR-N350, CR-N400, CR-N500 and CR-N700 for large auditorium or broadcast applications)
 - 15x, 20x optical zoom for 4K and 30x (CR-N700) and 40x (CR-N400, CR-N350) Advanced zoom for Full HD
- AVer (VISCA over IP protocol)
- Panasonic PTZ cameras (HTTP protocol)
- Sony PTZ cameras (VISCA over IP protocol)
- Compatible with any PTZ camera implementing the VISCA-over-IP protocol.

Supported SHURE Devices

- CAMTRACK Standard: Up to 4 SHURE ceiling array or conference audio devices
- CAMTRACK PRO: Up to 8 SHURE ceiling array or conference audio devices
- **SHURE Microphones**
 - MXA901 Conferencing Ceiling Array Microphone (1 audio zones)
 - MXA920 Ceiling Array Microphone (8 audio zones)
 - MXA910 Ceiling Array Microphone (EOL / predecessor to MXA920)
 - When operated in XYZ mode, the MXA901 and MXA920 allow up to 100 additional individual coverage zones to be configured to match the number of participants or groups to be distinguished.

- MXA710 Linear Array Microphone up to 4 lobes (2 ft), 8 lobes (4 ft)
- MXA310 Table Array Microphone up to 4 independent lobes
- Multiple table microphones
 - Systems such as SHURE MXCW (125 microphones) or MXW neXt (80 microphones) are recognized as a single audio device within CAMTRACK, ensuring compatibility with both Standard and PRO versions and allowing significantly expanded microphone capacity.
 - MXA710 and MXA310 can also be used as table microphones.
- Intellimix Room Software DSP
- IntelliMix P300 Audio Conferencing Processor
- ANIUSB-MATRIX USB Audio Network Interface with Matrix Mixing
- IntelliMix Foundation Base Kit for Microsoft Teams Rooms

Full INOGENI Switcher Compatibility

- Supports USB, HDMI, and NDI connectivity, including native CAM230 and CAM300 switchers as well as NDI sources via IP2USB for seamless integration of mixed camera types

Enclosure and Build

- Precision-milled aluminum chassis with silent, fanless operation
- Rack-, wall-, or flat-surface mountable

Built for quality

- Engineered for long-term reliability and peace of mind – requiring no drivers, backed by a 5-year warranty and full TAA compliance.

