



FEATURES

- Event rule combining - AI video analytics
- Simple AI setup with existing IP cameras
- Multi-level AI-based false alarm reduction
- High-performance pose estimation AI technology
- Smart scene detection
- Run multiple AI apps on each video channel
- Easy integration with other systems
- Web-based configuration
- Enhanced security options
- NDAA compliant



AI BOX V2.0



AI-Based

Intuitive AI video analytics



False Alarm Reduction

Multi-level AI-based



Multiple AI Apps

Running simultaneously on each channel



Accurate Event Detection

Using scene interpretation

| | | | |
|-------------------------|---|--|--|
| AI Application Packages | Pre-installed Package | AI Box V2.0 Standard Package - ZN-AIBOX-STD <ul style="list-style-type: none"> Dynamic Privacy Masking Standard Attribute (clothing colors) Queue Management Standard Heat Map Intrusion Detection Loitering Detection People Counting Vehicle Counting Zone Counting (zone occupancy) Virtual Fence (line crossing) Stopping Detection Stay & Go (enter & exit) Occupancy Counting Combine Rule Multi-Zone Counting Car Occupancy Counting | |
| | | Pro Package Add-on ZSL-PRO <ul style="list-style-type: none"> Crowd Detection Advanced Visitor Analysis Intentional Body Gaze Detector Hand & Foot Intrusion Imminent Threat Fallen Person Detection Animal Detection Vehicle Counting (bus, truck, other cars) Thermal (human) Detector Drone View Advanced Attribute Fisheye Camera Support Vehicle Type Detection Also includes Standard Package licenses | |
| AI Application Add-ons | Add-on Licenses (Per channel license required) | <ul style="list-style-type: none"> License Plate Recognition (LPR) - US, EU, JP, KR Advanced Heat Map No PPE Detection Forklift Driver No Helmet Illegal Dumping Illegal Parking PTZ Auto Tracking Aggression Detection Human Prolonged Stay Bullying Detection Staff Exclusion People Counting | |
| AI Engine | Included in AI Applications | Detector, Tracker, Recognizer, and Behavior Analyzer | |
| | Included in AI Applications | Behavior Detection Trigger, Counting Trigger, System Trigger, and Recognition Trigger | |
| Event Trigger | False Alarm Filter | Perspective interpolation based object size filter | |
| | | AI-based multi-level prevention filter | |
| | Combined with Other Triggers | Yes | |
| Event Action | System Events | Alarm in, virtual alarm in, video loss / recovery, system start, disarm, recurrence, login, tamper detection | |
| | System Action Handler | Relay out, RS485, audio back channel (camera speaker) | |
| | Network Action Handler | HTTP, FTP, e-mail (SMTP), AWS S3, TCP, Onvif | |
| | VMS Action Handler | Ganz CORTROL plug-in, Milestone, NX Plug-in | |
| | NVR/DVR Action Handler | HTTP API | |
| | Combining Rules with Other Events | Yes | |
| | Pre/Post Snapshot | Yes | |
| Analytics Report | Counter Report | TBD | |
| | Visitor Analytics Report (License, TBD) | - | |
| | Queue Management Report (TBD) | - | |
| | Heatmap and Pathmap Reports (TBD) | - | |
| UI | Web UI | HTML5 web UI (no plug-ins) | |
| API | API | Onvif, REST | |

| | | AI Apps Supported in 8ch Mode | AI Apps Supported in 16ch Mode |
|--------------------------------|----------------------------------|--|--|
| Number of Input Video Channels | | <ul style="list-style-type: none"> Standard Package Pro Package Add-on licenses | <ul style="list-style-type: none"> Intrusion Loitering People Counting Vehicle Counting Zone Counting Virtual Fence Stopping Stay & Go, Occupancy Combined Counter |
| Video | Annotated Video Output - RTSP | Yes - 8 ch mode | No - 16 ch mode |
| | Pre / Post JPEG Snapshot | Yes - 8 ch mode | Yes - 16 ch mode |
| | Max Video Input Resolution | 4K (3840x2160) @ 60 fps | 2MP (1920x180) @ 240 fps |
| | Video Input Method | RTSP, RTSP over HTTPS, Onvif | |
| | Supported Input Video Format | H.265 / H.264 | |
| | Supported Input FPS | 3 ~ 30fps per channel <i>Note: If channel uses dynamic FPS - Turn off</i> | |
| | Supported Input GOP | Same value as FPS setting per channel <i>Note: If channel uses dynamic GOP - Turn off</i> | |
| | Video Output Stream Method | RTSP over TCP/UDP, RTSP over websocket, RTSP over HTTPS (TBD) | |
| | Monitor Out / Monitor Resolution | - / - | |
| Audio | Audio Input / Output | 1 x Audio in / 1 x Audio out | |
| Interface | USB | 1 x USB2.0, 1 x USB3.0 | |
| | RS-485 | 1 | |
| | LAN | 2 x 10/100/1000 BASE-T Ethernet (ETH1/ETH2) | |
| | Wiegand | 1ch input / 1ch output | |
| Alarm I/O | Alarm Input/ Output | 4ch input / 1ch (relay) output | |
| Additional | Watchdog / RTC | Yes / Yes | |
| | Cooling Fan | - | |
| | Factory Reset Button | Yes | |
| | LED Indicators | 1 x power LED (3 color) / 1 x Status LED (3 color) | |
| Power | Power Supply / Consumption | 12V/3.3A adaptor / 16 watts | |
| Environment | Temperature / Humidity | -4°F~158°F (-20°C ~ 70°C) / 10 ~ 90% NC | |
| Chassis | Dimensions | 5.6" L x 7.1" W x 1.7" H , 142mm L x 180mm W x 42mm H | |
| | Weight (net/gross,) | 2lbs / 3.3lbs, 0.9/ 1.5 Kg | |
| Certifications | | CE, FCC, KC, NDAA Compliant | |