

AI BOX Release Notes

Release Date	ZN-AIBOX-PRO/STD (60310)	ZN-AIBOX4-PRO (61210)	Changes
20251017	104119	104119	New Features Illegal Dumping+ (Hybrid AI Boost) app added (Beta) Gun Detection (Hybrid AI Boost) app added (Beta) Two-way audio support over RTSP and RTSP over WSS Geutebruck VMS integration support Improvements & Changes Improved the password-recovery flow via email: after receiving the recovery email, the admin user now changes the password directly. Bug Fixes Fixed an issue where devices were not discovered in iDeviceManager. Fixed a UI issue where Global Disarm linked to Alarm IN was displayed as "None." Fixed an issue in the Initial Setup Wizard where security questions could not be set. Fixed an issue where action preset additions/deletions did not refresh immediately in the list. Fixed an issue where, with Forklift detection enabled and Intrusion/Loitering apps set to the "forklift" class, events were not triggered on the same channel when Dynamic Privacy Masking was in use.
20251001	104117	104117	New Added the App Guide on the UI for the Unsafe Lifting. Improvements & Changes Improved false-positive handling for the Forklift Detector. Forklift Non-driver Detection app: when the detect only when a forklift is present(With only Forklift) option is enabled, added a configurable dwell time for recognizing forklift objects. Increased HTTP call timeout for actions such as counter reports and action handlers — changed from 5 seconds to 10 seconds. Bug Fixes Fixed an issue where the Channel Extension Mode toggle in the System Management menu did not appear after navigating into the App List.
20250923	104116	104116	Bug Fixes Fixed an issue where in-development apps were shown in the list so they are now hidden.
20252923	104115	104115	New Features Added a function to instantly trigger Virtual Alarm IN. - Executes the connected action handler by triggering an event without changing the state of Virtual Alarm IN.

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20250923	104114	104114	New Features Added an option in the Forklift Non-Driver Detection app to detect only when a forklift is present, allowing users to set the object score threshold for the forklift. Improvements & Changes Adjusted the Unsafe Lifting app so that detections occur only when the situation is more certain. Bug Fixes Fixed an issue where the cause of a Partner Code input error was not displayed. Improved so that the cause is indicated in cases of passcode mismatch or server connection failure (firewall).
20250919	104113	104113	Improvements and Changes Improved the issue where various objects were incorrectly detected as forklifts when using forklift detection. Bug Fixes Fixed an issue where certain device runtime status information was not properly synchronized with the UI in real time.
20250915	104112	104112	New Feature Added minimum detection size to OutOfUniform (uniform non-wearing detection). Improvements and Changes Added minimum detection size to OutOfUniform (uniform non-wearing detection). Bug Fixes Fixed an issue where a Video Loss event occurred even though video was being received normally when the video source was in certain predefined Warning states. Fixed an issue in area-based apps (such as Loitering, Intrusion, etc.) where events could be duplicated if the confidence threshold was set higher than 15%.
20250909	104111	104111	New Features Added Dust-Proof Clothing Detection app Improvements & Changes Improved forklift detection model to reduce false detections Bug Fixes Fixed an issue where the recording menu was displayed in 16-channel or 10-channel mode Fixed an issue where the bottom part of the video was corrupted in Dynamic View
20250905	104110	104110	Improvements & Changes Improved detection accuracy in Fire & Smoke Detection app Reduced false detections caused by lighting changes in Illegal Dumping app

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20250903	104109	104109	New Features Added API for HLS Live Stream service Example: <code>https://[ADDRESS]:[PORT]/api/live/ch1</code> Improvements & Changes Enhanced to allow Viewer level users to access recorded videos Improved UI to display real-time system I/O status, including Alarm IN, Relay, etc. Bug Fixes Fixed an issue where the confidence threshold values for fire and smoke objects were not applied in the Fire & Smoke Detection and Fire & Smoke Detection+ apps Fixed a rare issue where event actions stopped working after deleting a rule in environments with continuously occurring events Fixed an issue in the Occupancy Counting and Occupancy Car Counting apps where the Entry Count and Increase values were swapped in the statistics CSV download
20250829	104107	104107	New Features Added an option in the Forklift Non-driver Detection app to trigger events only when a forklift is detected. Corridor view mode support (currently available only at 720x1280, with plans to expand resolution support in the future) Improvements and Changes Improved detection performance in the Forklift app. Enhanced the Fire & Smoke Detection and Fire & Smoke Detection+ apps to allow setting separate confidence score thresholds for fire and smoke objects. Bug Fixes Fixed an issue where the camera speaker action handler could not be tested. Resolved an issue where, on 8-channel devices, if channel 1 was unavailable, the event settings displayed channel 10 instead of channel 2.
20250826	104106	104106	Improvements and Changes Improved false detection in the default detector app Detection of non-wearing of designated uniforms - Added image examples Bug Fixes Fixed LPR recognition errors. Fixed an issue where devices could not be accessed via the remote connection feature in the Device Portal Fixed an issue where the Report function in Heatmap/Advanced Heatmap was not working

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20250822	104105	104105	New Features Added channel-specific filter (minimum, maximum size filter, exclusion area) copy function. Added Bear Detection Hybrid AI Boost app. Added function to initialize specific logs such as event logs and system logs. Added display to allow channels in low-resolution mode or fisheye mode to be checked immediately from the list. Improvements and Changes Fixed an issue where event object boxes remained on the OSD (after 104004). Improved false alarms caused by cobwebs. Bug Fixes Fixed an issue where the event repeat option and retrigger interval option did not work when small flames or smoke were detected in the fire detection app.
2025. 8. 14	104104	104104	New Features Added Storage Device Error system event Bug Fixes Fixed an issue where the setup wizard would not proceed when the Close button was clicked on the password retrieval question registration pop-up Fixed an issue where special characters could be entered in the password during DB export Fixed an issue where the vehicle type detection and forklift detection apps could not select the relevant objects intermittently when activated Fixed an issue where the virtual fence was not working (after 104103)
2025. 7. 28	104102	104102	Bug Fixes Fixed an issue where intrusion/loitering events were not triggered (after 104101): 8CH - Intrusion/loitering events were triggered when using the counting app and intrusion/loitering simultaneously, 4CH - Intrusion/loitering events were not triggered.
2025. 7. 25	104101	104101	New features Remote Access feature added Improvements and changes Slovakian special characters supported in trigger widget (ľščťžĺščťž) Bug fixes Fixed issue where advanced settings did not work in Forklift Non-driver Detection app

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2025. 7. 23	104100	104100	New Features Helmet Not Wearing Detection Hybrid AI Boost app added (Beta) When connected to Device Portal, individual devices receive a total of 3 days of remote support connection time credit. CloseCam Covered Face app UI installation guide link added. Improvements and Changes Changed to enable the Add License button in 16-channel mode Bug Fixes Fixed an issue where snapshots were occasionally not displayed when many events occurred in a set with Hybrid Rule settings Fixed an issue where snapshots were not attached when actions were triggered in some system event settings (Recurrence, Tamper Detection, etc.) when the target channel was set to "All Channels"
2025. 7. 7	104011	104011	Improvements and Changes Changed to use broker-provided certificates when no certificates are specified in the MQTT over SSL option settings for MQTT action handlers.
2025. 7. 2	104010	104010	Improvements and changes Optimized memory usage by allowing TriggerWidget to share fonts
2025. 7. 2	104009	104009	New Features Added an option that only works when the object that triggered the condition event is the same as the object that triggered the main event when setting Combined Rule. Improvements and Changes Changed Japanese and Taiwanese fonts to fonts that are commonly used locally. Improved fisheye detector false detection.
2025. 6. 27	104008	104008	New Features No PPE+ Hybrid AI Boost app added Improvements and Changes Audio Output action test failure error message now displays failed equipment Bug Fixes Fixed bug where SDP was sent incorrectly from RTSP server

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2025. 6. 23	104007	104007	Improvements and Changes Improved the Event Action List screen so that action history is displayed when hovering over it without clicking. Improved the system log to record the previous version and updated version during firmware updates. Improved fire app detection performance. Improved vehicle type detection app performance. Improved the network action TEST button to display more specific error messages when it fails. Changed the event count display widget in OSD settings to include debug information.
2025. 6. 16	104005	104005	Improvements and Changes Improved detection of unsafe lifting in the app. Significant improvement in undetected issues that occurred when applying the 104003 version static object filter misdetection improvement.
2025. 6. 13	104004	104004	Improvements and Changes Manager-level users can now view the recording menu. Added a feature to upload front and back images of uniforms to the Out of Uniform detection app. Improved detection in the Unsafe Lifting app. Modified the QueueLimit app so that it is not visible without a license Added Audio Transmit API (/api/audio/transmit/) Bug fixes Fixed an issue where a split screen was occasionally not displayed and a blue screen appeared in the video preview screen Fixed an issue where some clients (such as Curl) could not make HTTP calls even when the HTTP API was enabled
2025. 6. 5	104003	104003	New Features Added “CloseCam Covered Face” app Improvements and Changes Improved false detection issues through static object filter performance improvements Bug Fixes Fixed an issue where cloud alarm transmission requests were interrupted on networks with unstable bandwidth.

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2025. 5. 23	104000	104000	New Features EEN Integration Support Improvements and Changes Threat Situation Detection+ (Imminent Threat+), Out of Uniform Detection, and Queue Limit Detection apps have been modified to Beta. Annotated video OSD settings UI/UX improvements Bug Fixes In the Hybrid AI Boost app, events that are not final analysis results are no longer recorded. [AI Cloud] Fixed an issue where device name changes were not reflected in the cloud. Fixed an issue where UI operation slowed down when the UI was left open for a long time. Fixed a bug where PTZ auto-tracking action did not work.
2025. 5. 17	103915	103915	What's new Hybrid App Additions: Imminent Threat+, Out of Uniform, Queue Limit(beta) Bug fixes Fixed HTTP action handler not being sent when attaching files
2025. 5. 17	103914	103914	Improvements and changes Improved Camera Tamper Detection performance (more robust to lighting changes) Improved Fire Detection App fire false positives
2025. 5. 9	103913	103913	What's New Added Spill Detection Hybrid AI Boost app Added tid, class, 3d point, and distance display options when displaying objects on a map in the Object Location Tracking app Added installation guides to Intrusion Detection and Loitering Detection apps Bug fixes Fixed an issue where querystring was not sent when querystring was written to URL in HTTP action handler Fixed an issue where no event would occur when activating the "Event Only When Alone" option in the Fallen app. (When there are more than 2 Fallen objects, or when using the same channel with other apps)
2025. 4. 23	103912	103912	Improvements and changes Stability improvements
2025. 4. 22	103911	103911	Bug fixes Fixed an issue where counting data in the Advanced Visitor Analysis and Vehicle Type Counting apps was being kept for less than a week.

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2025. 4. 21	103910	103910	What's new When a report transmission from the Counter app fails, it will hold the failed data for a period of time and attempt to resend it - Prevents missing data due to temporary receiving server unavailability errors or network issues Improvements and changes Improved 4CH CODEC compatibility (related to colorimetry) Reduced the size of the default size filter in the No-PPE app (to better detect smaller objects) Fixed an issue where the network action handler for setting a password would appear to be blank after the password was saved, making it appear as if the setting was missing - Fixed an issue where the password would appear to be a unrecognizable string (●●●●●●●●) Fixed a bug Fixed an issue with clicking Animal Detection+ in the sidebar taking you to the Animal
2025. 4. 16	103909	103909	New features Added Animal Detection Hybrid AI Boost app Bug fixes Boot error prevented real-time information such as video information and sidebar UI from updating Fixed Digest / Basic authentication failing in HTTP action handler Fixed video connection periodically reconnecting approximately every hour
2025. 4. 11	103908	103908	What's New Added Fallen Person Detection Hybrid AI Boost app Added Fire & Smoke Detection Hybrid AI Boost app Added Aggressive Detection Hybrid AI Boost app Improvements and Changes Improved Illegal dumping app to display object location background according to the start of the event
2025. 4. 10	103907	103907	New Features Added LP Masking app (BASIC PKG)
2025. 4. 7	103906	103906	Improvements and changes Improved No PPE app false positives: checks if no-vest, no-helmet objects are inside a person Bug fixes Fixed reboot issue with versions 103903, 103905

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2025. 3. 28	103905	103905	New Feature Added the ability to register a 2nd URL in the Counter app's HTTP reporting feature to send to a second address in case of a failed transfer Built-in Audio Line Out support Improvements and changes Immix Mic scenario output (can output audio to Built-in Audio Line Out or camera) Bug fixes Fixed a bug in the Object Location Tracking app that caused the location of mapped objects to be displayed incorrectly.
2025. 3. 25	103903	103903	Improvements and changes Improved human misdetection by animals (especially in CAREFUL mode) Bug fixes Fixed an issue that prevented new events from being fired when the Network Problem Occurred status accumulated on a device using AI Cloud
2025. 3. 19	103902	103902	New Features Added Widget font size settings (added large font settings for 16-channel mode multiviews) Added Action Handler Favorites feature Added Video Loss, Video Recovery events Improvements and changes Improved Thermal Intrusion app static object filter (improved false positives) No PPE app + Dynamic Privacy/Face Masking (unmasking event object check) Improved the issue that No PPE event object is not unmasked when using No PPE app + Dynamic Privacy/Face Masking (unmasking event object check) LPR app: tightened LP recognition conditions (skip potentially erroneous LP recognition) Bug fixes LPR app: Fix to resume license plate recognition when Event Repetition is set in LPR app Fixed map location display error on input resolutions other than 1920x1080 in Object Location Tracking app

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2025. 3. 7	103900	103900	What's New HTTP API available - Available after checking Enable HTTP API in System-Security menu (reboot required) - API only available via HTTP (no UI access) Added the ability to use ISO8601-formatted time tokens as file paths in reporting settings of the Counter app Added the ability to use the direction indicator used in the key value as the label of the counter setting when setting up reporting in the counter app (Ex. A/B -> Front Door Left/Front Door Right) Improvements and Changes Line Messenger notification has been removed from the action handler due to NAVER discontinuing the service (scheduled for 2025.03). Added System API - Rule Activation/Deactivation API added - Added GET method I/O Control API - Disarm, Virtual Alarm IN, Relay - Available in System - Document - System API menu Dynamic view mosaic screen quality improved Separated device registration and AI Cloud usage menu - Changed to allow device registration and mobile app use without AI Cloud license Bug Fixes Fixed an issue where vehicles were not detected when the "Exclude vehicle occupants" option was enabled in the Intrusion Detection app. Fixed an issue where an object of a class not set in the Target object (ex, 'animal' or 'car') caused an intrusion (ex, 'person') when setting up the Animal detection app and the Intrusion app at the same time. Fixed an issue where statistical data for Counter type apps was kept for less than the actual 7 days. Fixed an issue where there was no object information when an event occurred by Re-trigger Interval.

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2025. 2. 21	103822	103822	What's New Added False Positive Filter Overview - Added an overview screen to check the history of set false positive filters at a glance Added the ability to download RTSP logs to diagnose problems in case of video connection errors Added option in LPR app to trigger recurring event when LP remains in the zone In the Fallen Person Detection app, added an option to detect only fallen people when they are unattended Improvements and changes - Changed the file downloaded to System -> System Management -> RTSP log to a compressed file with log files by channel - Changed RTSP log file to record multiple RTSP error messages - Added a button to download the RTSP log file of a specific channel from the popup that appears when clicking the icon when an "Abnormal Stream" error occurs in the Video Stream menu. Maximum input resolution is limited to 1920x1080 in 16-channel mode Improved Object Location Tracker - Improved to automatically add a default map in grid format and default camera view settings when activating a channel Improved Hybrid AI Boost app to not send mobile notifications when Hybrid analysis results in a false alarm. When drawing on the OSD, the bounding box of a small object is drawn larger to prevent the object from being covered. Bug fixes Fixed a system stability issue when some apps are set to 6 channels or more. - Counting app, Reverse Movement, Speed Anomaly Fixed 'Person' event objects not being unmasked when using Dynamic Privacy Masking with apps that use pose (Hand&Foot Intrusion, Intentional Body Gaze Detector, Imminent Threat, etc.

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2025. 2. 5	103818	103818	What's New Added underage detection app (Beta) - Hybrid AI Boost app - Available only when connected to Helper Server Added option for periodic events to occur at a specified time - Applied to Zone Counting, Recurrence event settings - Set what minutes to run when setting an hourly event - Set what time and minutes to trigger when setting a daily event Improvements and changes Changed Speed Anomaly app to analyze 6fps (increased cost) Size Filter, Exclusion Area icon changed to be more intuitive Improved Arm/Disarm status by channel to be saved and recovered on reboot Bug Fixes Fixed an issue where Stay & Go events were intermittently duplicated by 2 events Fixed UI display error when registering more than 10 schedules
2025. 1. 24	103817	103817	What's New Added the Vehicle Queue app - Get real-time measurements of the number of cars lined up at intersections and more, as well as aggregated wait time information. Improvements and changes Improved English alphabet recognition performance in LPR JP app (Japanese license plate recognition) Improved an issue where a single vehicle is detected as multiple types of vehicles at the same time in the Vehicle Type Counting app (bounding box overlap issue) Improved fallen app detection performance Bug fixes Exception handling for H.265 stream information error when searching and adding NVR videos Fixed not working when Alarm IN status is set to combined rule Fixed an issue that prevented adding licenses on devices that have been on for a long time (10D)
1/21/2025	103816	103816	What's New Added ability to search for H.265 streams when searching for cameras Improvements and changes Improved network action handler settings screens, such as email, to not display authentication password Bug fixes Fixed SMTP server settings not being saved in the initialization wizard Fixed AI Cloud Event Push behavior error when many events occur in a short time interval