



IPX MONITOR

A&E Software Specification EN-US
v1.0.3.0

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1. FEATURES

1.1 Network

- IPXMonitor shall support HTTP and HTTPS.
- IPXMonitor shall support HTML5 accessible via Google Chrome (version 125 or later) and Microsoft Edge (version 124.0.2478.67 or later).
- The IPXMonitor must be installed and executed on a computer running Windows 10 Pro or Windows 11 Pro.
- IPXMonitor shall not require a dedicated client application to access, configure, or monitor events.

1.2 Events

- IPXMonitor shall handle events in an organized Kanban-style interface, updated in real time and sortable by priority.
- IPXMonitor shall allow event registration.
- IPXMonitor shall differentiate between actionable and non-actionable events.
- IPXMonitor shall allow event priority definition.
- IPXMonitor shall store up to 2 images from the alarm moment.
- IPXMonitor shall allow event description.
- IPXMonitor shall integrate video with Digifort, Hikvision NVR, and Intelbras DVR for live viewing and alarm moment playback.
- IPXMonitor shall group events by location.
- IPXMonitor shall integrate with a virtual operator (IPXCopilot) for automatic classification of alarms as false or possibly true.
- IPXMonitor shall provide an action button for executing automation in alarm handling.
- IPXMonitor shall allow operators to write notes when handling an alarm.
- IPXMonitor shall support location registration for event organization.
- IPXMonitor shall provide bar and line charts with filters for events, locations, and accuracy.
- IPXMonitor shall generate reports with filters for events and locations, including statuses such as true, pending, and false.
- IPXMonitor shall allow report export in CSV and XLSX formats.

- IPXMonitor shall allow export of alarm images for AI model improvement.

1.3 LPR (License Plate Recognition)

- IPXMonitor shall allow LPR event registration.
- IPXMonitor shall integrate with IPXAnalytics LPR for data receiving.
- IPXMonitor shall store 1 image of the plate reading.
- IPXMonitor shall allow LPR event description.
- IPXMonitor shall integrate video with Digifort, Hikvision NVR, and Intelbras DVR for live viewing and reading moment playback.
- IPXMonitor shall group events by location.
- IPXMonitor shall integrate with the virtual operator (IPXCopilot) for describing the vehicle brand, model, and color.
- IPXMonitor shall generate reading reports with filters by plate, brand, model, color, vehicle type, event, and location.
- IPXMonitor shall allow report export in CSV and XLSX formats.
- IPXMonitor shall provide a real-time updated interface with the most recent vehicle readings.
- IPXMonitor shall allow license plate registration and creation of custom lists with automation possibilities.

1.4 Speed Detection

- IPXMonitor shall allow speed event registration.
- IPXMonitor shall calculate vehicle speed based on analysis between LPR reading points.
- IPXMonitor shall store possible speed violation records.
- IPXMonitor shall generate a violation report with filters by plate, minimum speed, maximum speed, and event.
- IPXMonitor shall allow report export in CSV and XLSX formats.

1.5 Automation Schemes

- IPXMonitor shall allow automation scheme registration.
- IPXMonitor shall allow events to be used as triggers for automation execution.
- IPXMonitor shall provide an intuitive drag-and-drop-based interface.
- IPXMonitor shall support the inclusion of AND and OR logic boxes in schemes.
- IPXMonitor shall provide a timer box for output execution.

- IPXMonitor shall support outputs of type GET, POST, Telegram, and Email.

1.6 Copilot Chat

- IPXMonitor shall provide a chat for interaction with IPXCopilot, a generative AI model.

1.7 Settings

- IPXMonitor shall allow definition of recording time for old alarm removal.
- IPXMonitor shall allow configuration of the directory for image storage.
- IPXMonitor shall allow definition of the size of images to be saved.
- IPXMonitor shall support English and Portuguese languages.
- IPXMonitor shall provide an option to delete all alarms and LPR readings.

1.8 Users

- IPXMonitor shall allow user registration and granular access control.
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2. LIMITATIONS

- IPXMonitor shall not perform video recording, does not have VMS functionality.
 - IPXMonitor shall not allow automation execution for LPR plates that are not registered.
 - IPXMonitor shall not allow selective alarm deletion; deleting will remove all records.
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