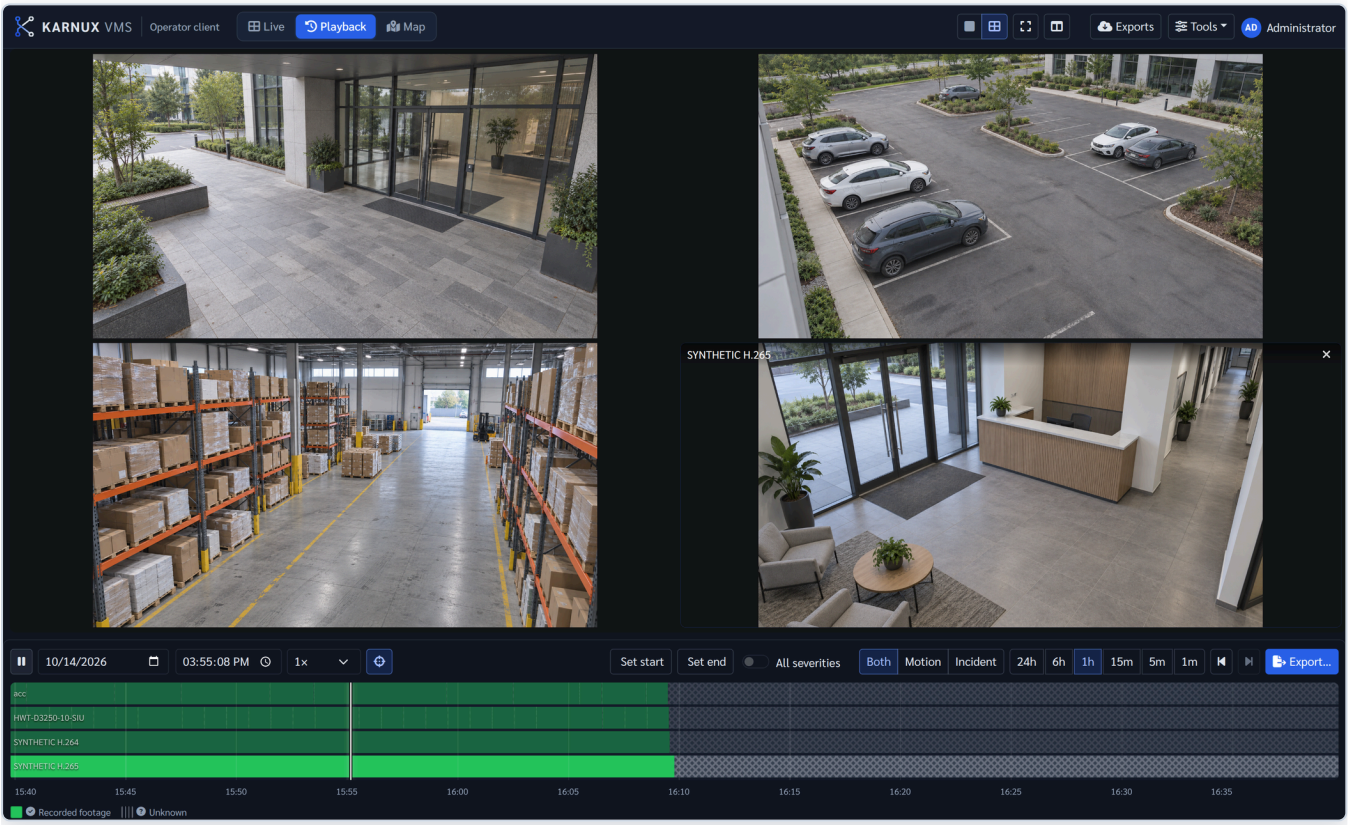
# KARNUX VMS

## Product Data Sheet

**Self-hosted Video Management System**

Document No. PDS-202610
Date 14 October 2026

KARNUX VMS is a video management system for IP cameras and NVR channels, designed for operation through a web browser. It brings together live monitoring, recording, playback, video export, camera and NVR management, system health monitoring, and user access management. KARNUX runs on infrastructure managed by the organization and supports systems ranging from small deployments up to 480 cameras.




## Key advantages

### Control your own system and video

Run KARNUX on your own infrastructure and keep recorded video within systems you manage.

### Web-based operation

Monitor live video, review recordings and manage the system directly from a web browser.

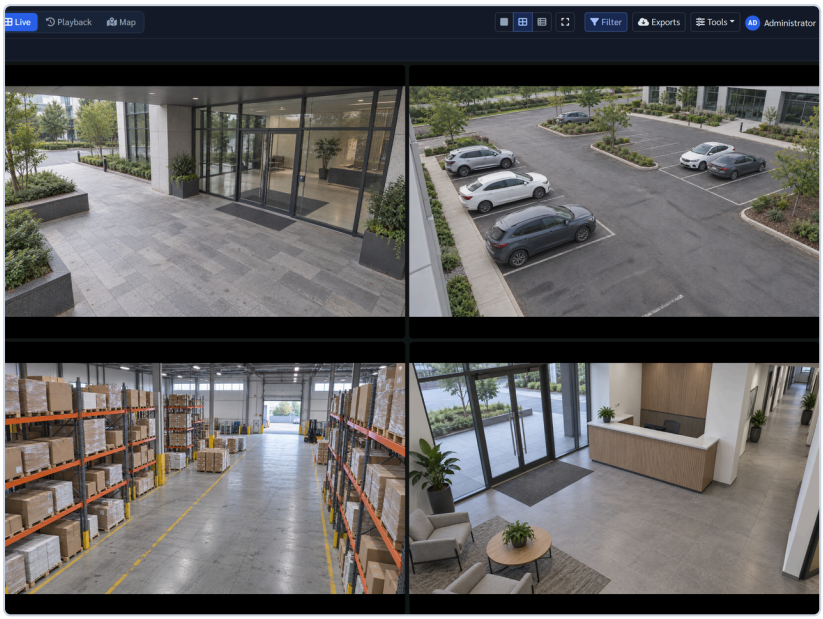
### Scale from small systems to 480 cameras

Choose from KARNUX Free, Standalone or Professional as your camera system grows.

### System health at a glance

Monitor camera, recording and storage status from one dashboard.

## Capabilities: video and devices




Live view in a 2×2 layout

### 01 Live Monitoring

View multiple cameras through a web browser using single, 2×2 or custom layouts, with saved layouts for frequently used views.

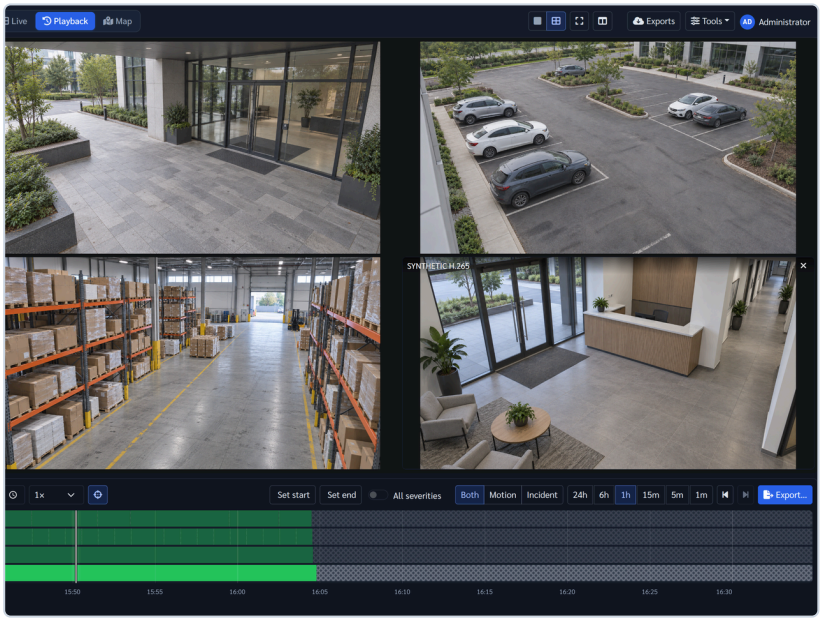
- Switch easily between live monitoring, playback and maps while working.

### 02 Recording

Record video continuously and monitor recording status for connected cameras. Motion-based recording can also be enabled when required.

### 03 Playback & Export

Review recorded video on a timeline, play back up to 4 cameras in sync and export footage as MP4 files.

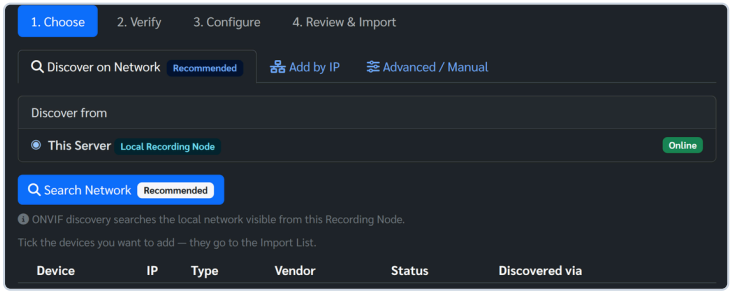



Synchronized playback of 4 cameras in a 2×2 layout

### 04 Camera & NVR Management

Discover and add IP cameras and NVR channels, and organize cameras by area.

- NVR channels can be imported as individual cameras for easier management.




Adding cameras with ONVIF discovery

### 05 Storage & Retention

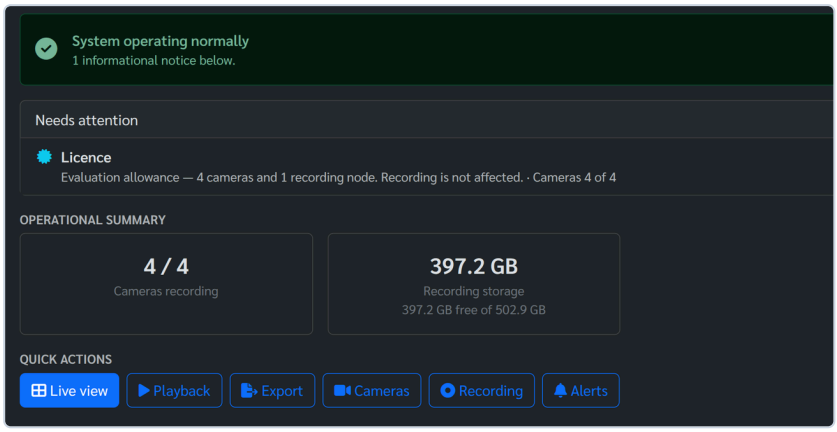
Manage video storage and configure how long recordings are retained based on time or available storage.

- KARNUX manages older recordings automatically according to the configured retention policy.

## Operations & System Management

### 06 System Health Monitoring

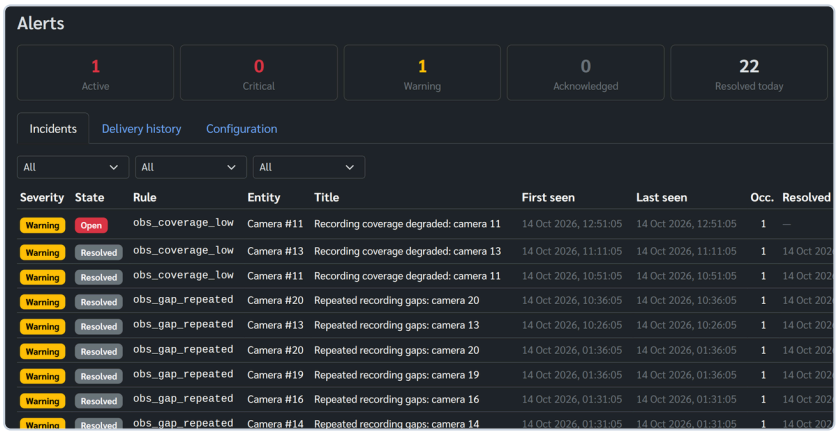
Monitor recording, camera and storage status from the dashboard, with a clear view of items that need attention.




System health and recording status

### 07 Alerts & Reports

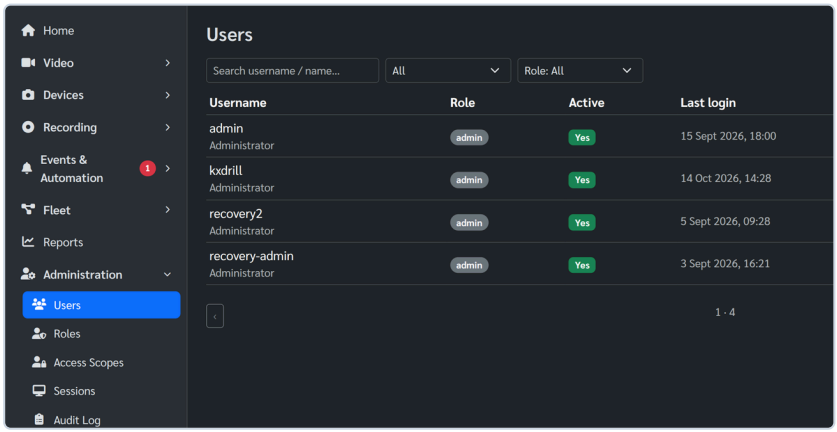
Receive alerts for camera, recording and storage conditions, review incidents and use reports to follow system activity.




Alerts and active incidents

### 08 Users, Roles & Audit Log

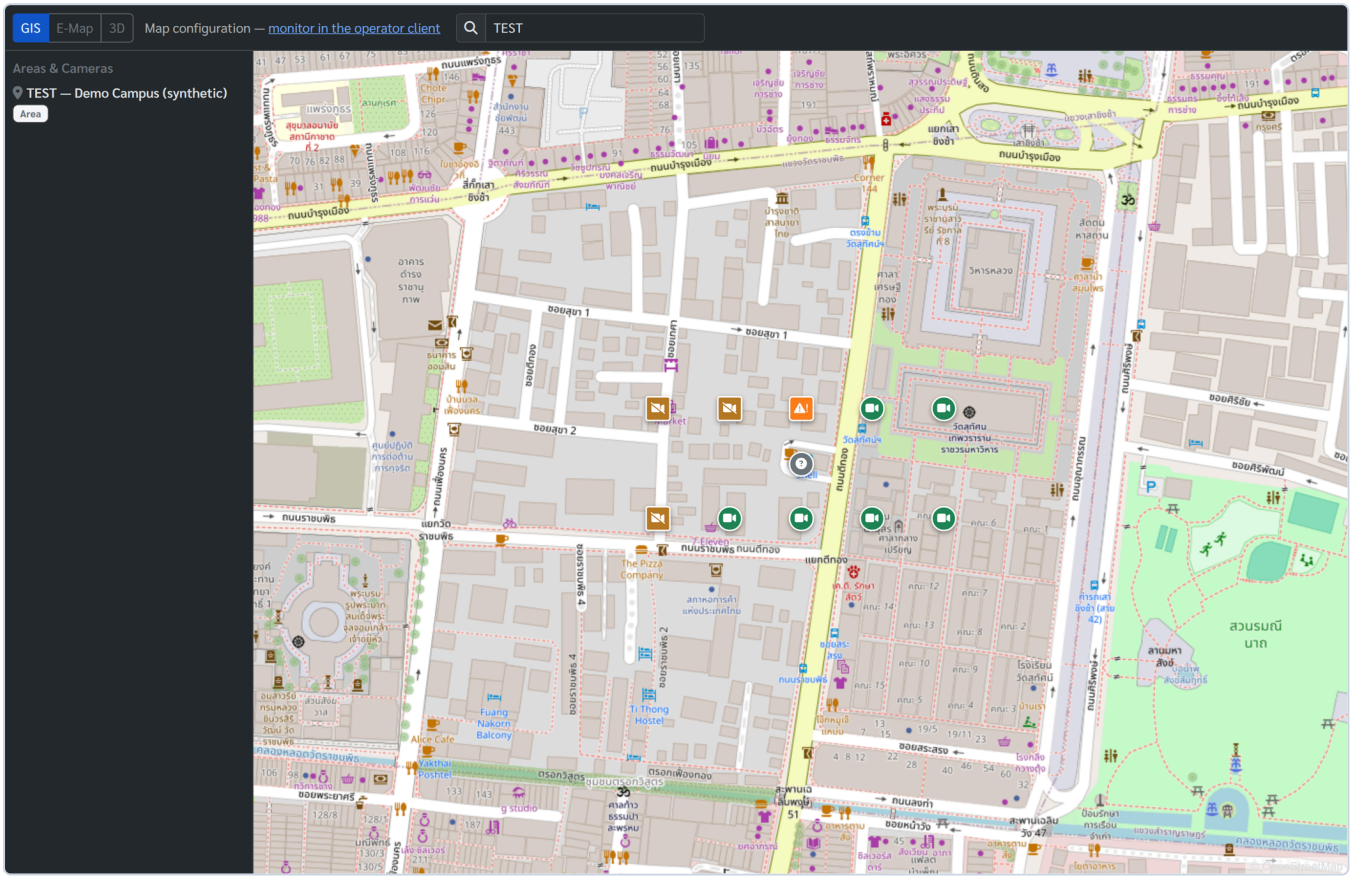
Manage users, roles and access permissions, with an audit log for activity tracking. The user interface is available in Thai and English.



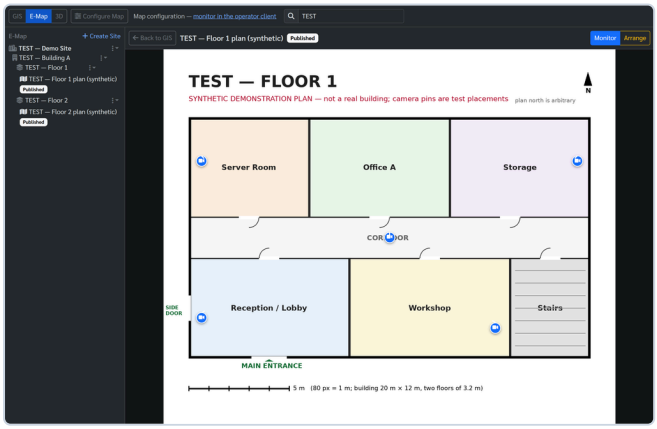

Users and access management

## 09 Maps

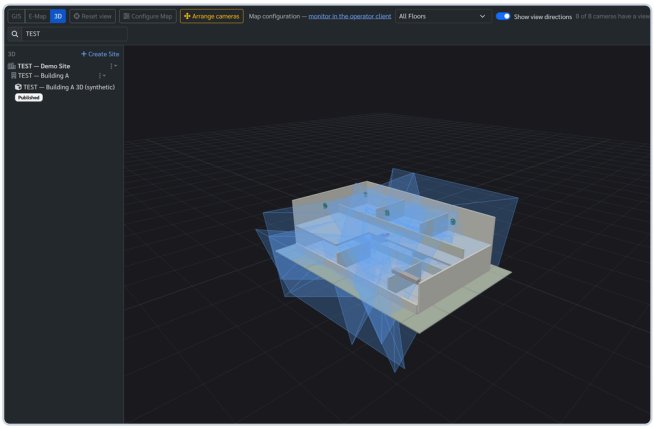
View camera locations on maps and open Live View or Playback directly from the map.




**GIS Map**
Camera locations on a geographic map



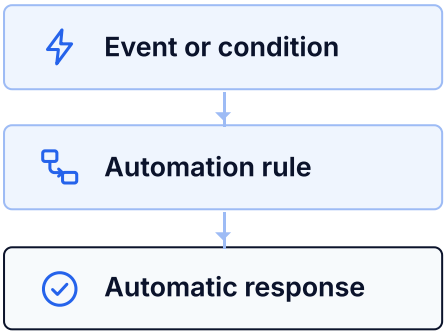

**2D E-Map**
Floor plans with camera positions



**3D Map**
Building view with camera positions and estimated viewing areas

## 10 Automation

Create rules that allow KARNUX to respond automatically to selected events and operating conditions. Automation reduces repetitive operator actions and helps keep operational responses consistent.




**Example uses**

- Respond automatically when selected camera or recording events occur.
- Use rules to support incident handling and consistent responses to operational events.
- Adjust recording behavior automatically when selected events or conditions occur.

### Editions

| Edition | Cameras | Description |
|---|---|---|
| **KARNUX Free** | **Up to 24** | For smaller camera systems |
| **KARNUX Standalone** | **32 / 40 / 48 / 56 / 64** | For systems running on a single server |
| **KARNUX Professional** | **64–480** | For centralized management and multi-node recording |

GIS map and 2D E-Map are included in every edition.

**KARNUX Professional includes**

Multi-node recording | Centralized management | 3D Map | Advanced Automation

KARNUX Free has usage limits, including playback of up to 2 cameras at a time.
Evaluation Mode supports up to 4 cameras for testing and product evaluation.

### Licensing

KARNUX uses perpetual software licenses, with editions for different system sizes and deployment needs. See the current KARNUX Price List for details.

## Camera compatibility

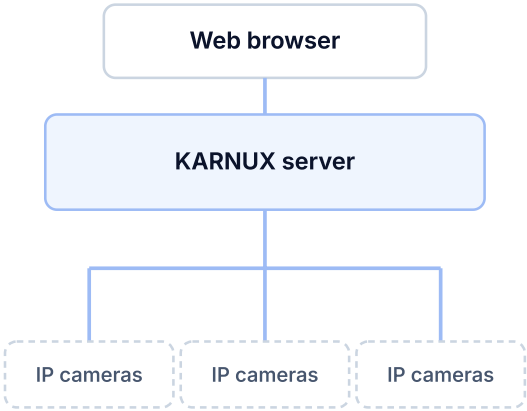
**Cameras** Supports IP cameras and NVR channels using ONVIF and RTSP, with NVR channel import for Hikvision and Dahua.

**Video** Supports H.264 and H.265 video recording. H.265 viewing depends on the web browser, the computer's hardware and the system configuration.

Available features depend on the camera model and firmware.

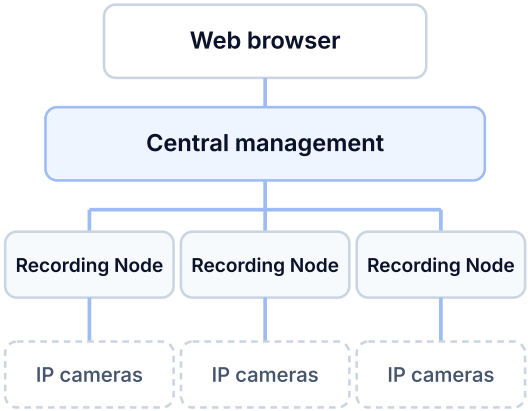
## Deployment

### Standalone




A single KARNUX server handles recording, management and user access.

### Professional




Recording Nodes handle camera recording with centralized system management.

**Server** Ubuntu 24.04 LTS on 64-bit x86 hardware

**Client** Current web browser

Some illustrations use simulated camera imagery to demonstrate the display within the actual KARNUX VMS interface. Sample images and data are not evidence of system test results.

Camera positions and status shown on a map are a guide and may not be exact.

Map data © OpenStreetMap contributors, openstreetmap.org/copyright

**Contact KARNUX**

For product, licensing and project enquiries.

contact@karnux.com

karnux.com

Specifications are subject to change. Feature availability depends on the KARNUX software version. Known limitations are described in the release notes.