



PRODUCT DATASHEET

VIDEO MANAGEMENT SOFTWARE

Every camera, every site — one screen, one audit log

Made in India
Powered by AI

Highlights

Cognix Vision VMS is our own video management software, browser-based and running in production today. It is built for the point where video software usually fails — a hundred cameras on one wall, an operator who needs the last four minutes now, and a network that drops a stream at the worst possible moment.

Unified platform

Live view, recording, playback, events, maps and analytics in one system. Not a VMS from one vendor bolted to analytics from another, with nobody owning the integration when it breaks.

One interface to learn

Setup, monitoring, playback, reporting and event handling all follow the same patterns, so training a new operator means teaching one system, not five.

Straightforward deployment

One standard installation and maintenance path for every site, which removes the compatibility problems that come from stitching independent products together.

Reliable and redundant

Failover recording and database redundancy, so a single server or disk failure does not cost you the footage. Encryption in transit, authentication and role-based authorisation throughout.

Open integrations

Standard, documented interfaces for third-party systems — access control, PSIM, enforcement platforms and command centres. Where something specific is needed, we build it.

Indigenous and hardware agnostic

Engineered in India, running on ONVIF and RTSP cameras and standard servers. No proprietary hardware and no vendor lock-in on the camera estate you already own.

Capabilities

01

Multi-site monitoring

Watch every camera across local and remote sites through one interface. Cameras are grouped by site, plant, branch or city, and each group records and operates independently.

02

Resilience and redundancy

Failover recording and database redundancy keep the system, the cameras and the recordings available. Where the link to a site drops, edge recording continues and syncs afterwards.

03

Map-based monitoring

Cameras plotted on a site or city map. An operator goes from a location on the map to the live feed, or to the recording around an event, in a single click.

04

Privacy and data protection

Encrypted communication between clients, servers and cameras, retention enforced automatically per drive and per camera, and a full audit of every view and export.

05

Health monitoring

Real-time camera and service status, with a dedicated service producing statistics. A dropped stream is noticed in seconds rather than during an investigation weeks later.

Capabilities

06

Consolidated reporting

Unified reports across every camera and site, with charts for event counts, camera health and storage. Export as CSV or PDF for an investigation file or a monthly review.

07

Configurable dashboards

Dashboards that show what a given control room actually needs — cameras online, storage, events by type, recent activity — rather than a fixed layout everyone has to live with.

08

Centralised configuration

User accounts, roles, camera onboarding, media servers, storage and retention rules managed from one place, so routine administration stops being a per-site task.

09

Centralised alarm handling

Alarms from every camera and event type in a single queue. Operators monitor, act and acknowledge, and the acknowledgement is recorded with the operator's name.

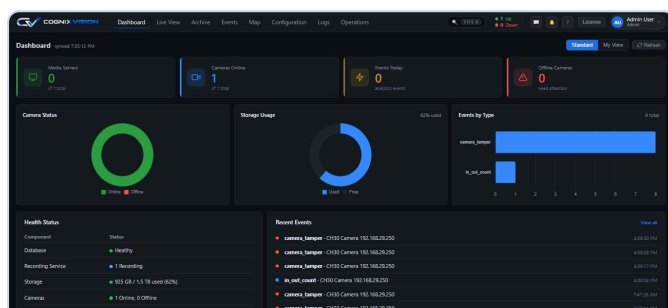
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Access from the field

Live view, events, dashboards and notifications on a mobile device, so a supervisor away from the control room still sees what the operators see.

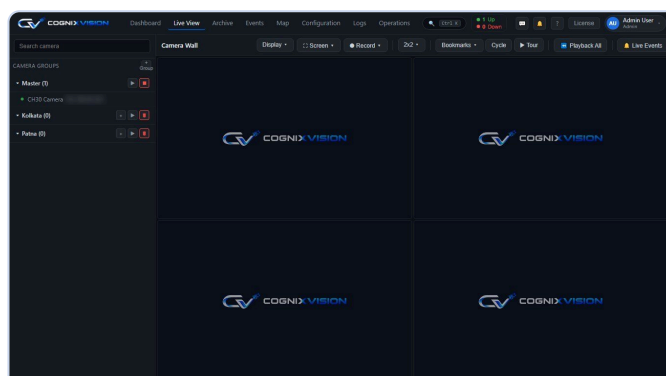
Interface

Screens from the running product — not mock-ups.



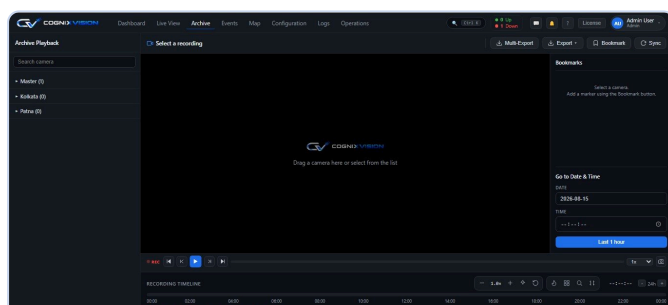
Dashboard

Cameras online, storage, events today, recent activity.



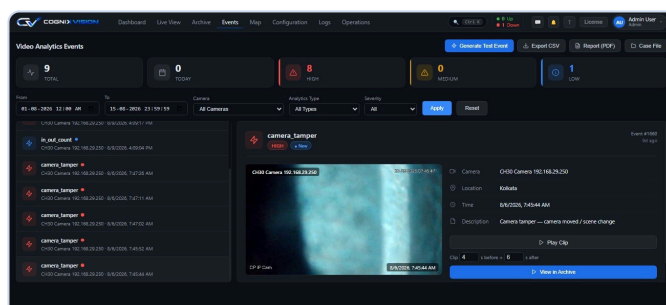
Live view

Multi-tile wall with camera groups, cycling and tour.



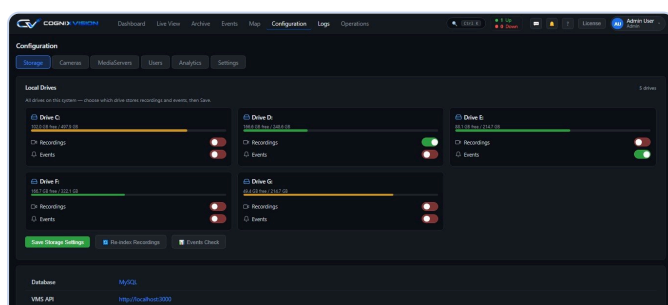
Archive

24-hour timeline, bookmarks, jump to timestamp, export.



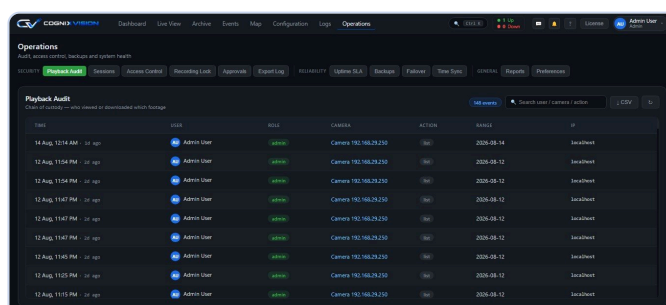
Events

Severity-coded feed with clip, camera and timestamp.



Configuration

Storage per drive, cameras, users, analytics settings.

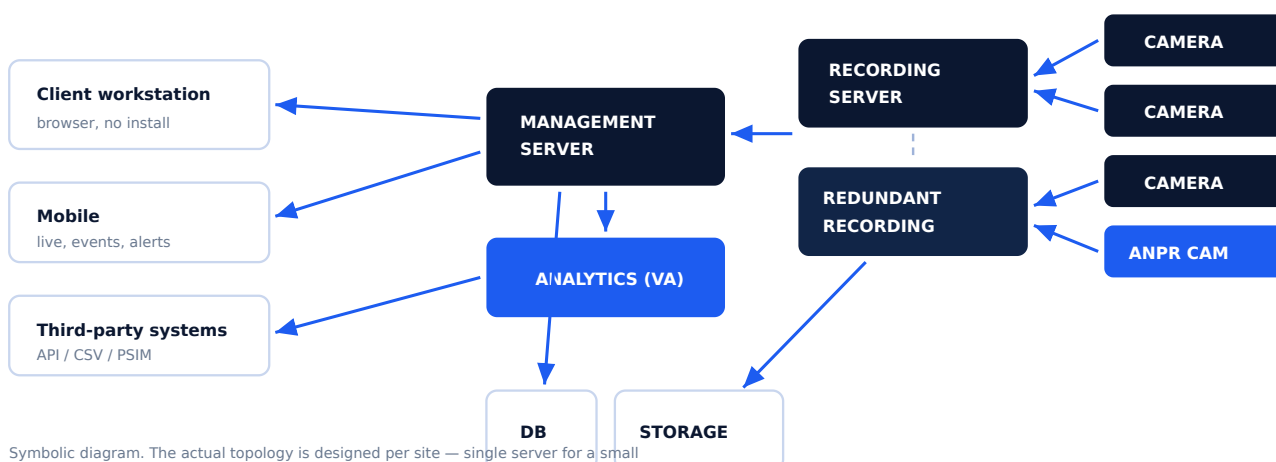


Operations

Playback audit, uptime SLA, backups and failover.

Architecture

Cameras record to a recording server, with a redundant server and database replication where the deployment demands it. The management server holds configuration, users and events; analytics runs alongside it or at the edge. Clients are browser-based.



Sizing is done after the survey

How many recording servers, how much storage and whether redundancy is warranted depends on camera count, resolution, frame rate, retention period and how much downtime the site can tolerate. We size it against those numbers rather than a standard package.

Specifications

Cameras	ONVIF and RTSP IP cameras, any make and model. [[Confirm your tested camera list]]
Operating system	Linux or Windows server. Browser-based client — nothing to install on operator machines.
Recording	Continuous, scheduled or event-based, with per-drive recording and event storage toggles.
Retention	Set per drive and per camera group, enforced automatically. [[Add your default retention policy]]
Redundancy	Failover recording server and database redundancy. [[Confirm your supported failover topology]]
Scale	Multi-server, multi-site. [[Add your tested cameras-per-server figure]]
Security	Encrypted transport, role-based access (admin / operator / view-only), full playback and export audit.
Integrations	Analytics, ANPR and face recognition modules, plus API and CSV export to third-party systems.

A note on the bracketed figures

Camera counts per server, retention defaults and tested camera lists change with hardware and with each release. We publish the figures we have actually measured, so those entries are filled in from your own sizing exercise rather than copied from a brochure.

Hardware & standards

The VMS is built on open standards, so it works with the camera estate and server hardware you already have — and with what you buy next.

Camera standards

ONVIF Profile S / T

RTSP / RTP

H.264 and H.265

MJPEG

[[your tested camera brands]]

Compute

Intel and AMD x86-64 servers

NVIDIA GPU for analytics

CPU-only for VMS-mostly workloads

[[your validated edge appliance]]

Infrastructure

On-premise servers

Private cloud

Hybrid edge + central

Standard SAN / NAS storage

Talk to us before you buy hardware

Send the camera list and the retention you need. We will tell you what the deployment actually requires — and where your existing equipment is already sufficient.

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Cognix Vision provides this document for general information. Product capability depends on site conditions, camera quality and the hardware provided. Users remain responsible for the interpretation and operational use of any output produced by the system, and for compliance with the laws applying to video surveillance and personal data at the site of deployment.