AI CCTV Monitoring Platform

White-label ready

Features and roadmap

AI that watches every camera: what ships today, and what comes next

The platform turns the CCTV you already have into AI checks for PPE, fire and smoke, restricted zones, people, vehicles and visitors, with a picture and a clip behind every alert, on one server at your site and no cloud. Below: what ships today, what is being built now, and what comes after. Every item maps to working code or an approved design.

Version 1.1.804 | Updated 8 November 2026 | For buyers, partners and site teams

14
PPE types built in, 6 on by default, plus your own

8 s
an item must stay missing before a violation opens (default)

15 s
for a rule or setting change to reach every camera, no restart

0
cloud services needed: video and data stay on site

At a glance

What ships today, what is being built, and what comes after, item by item.

99
Available
ships today

10
In progress
being built now

4
Planned
design approved, queued

2
Later
after the planned work

Available 99 in 15 areas

Live wall and alarms 5

Live wall and kiosk mode, with live video on up to four tiles and the boxes drawn over it

An Auto layout: cameras that need attention move to the front and say why; calm sites stay an even grid

A wall screen with a status strip, a reason band, a 15 s fill for high events and a banner to acknowledge them

Live video that also works off site, and recorded boxes over playback

Live video on iPhone through the server (iOS 17.1 or later)

Your cameras and recording 8

Camera management, picture health checks, recording and clip playback

Cameras in areas, presets for Hikvision, Dahua and EZVIZ, Test connection and NVR bulk add

Video search: find recorded moments by describing them or showing a picture

CCTV recording and playback: a timeline across cameras, synced speeds, clip export with a checkable manifest, PTZ and camera discovery

Floor calibration on every camera, with four to eight points and a measured accuracy

Floor map studio: upload a plan picture or a PDF page, or draw each floor, set its scale, place and aim cameras, fit each camera's floor to the plan, and publish a map that opens in 3D, 2D or as a flat plan

Signed exports: every clip or snapshot export carries a signature and check values, a Share safely page checks any file against this site's exports without uploading it, and Settings → Sharing holds the key

Record sound for one camera at a time: off by default, switched on by an administrator with a reason and a legal warning, locked off by some privacy profiles, and played muted until someone unmutes it

AI checks: PPE, safety, security and counting 13

PPE detection with zones, rules, events, evidence and review

Test bench

PPE checking on or off for the site and per camera

Safety checks (fire, smoke, person down, phone use, forklift proximity) and security checks (restricted area, loitering, unknown face, watchlist match, authorised people only, camera blocked or moved), with a limit on security alerts per camera per hour

A hygiene and food-safety PPE preset, and fewer false missing-PPE alarms: a violation opens after 8 seconds by default, and a helmet or vest seen clearly stays worn for 15 seconds while out of sight

Lone worker and walkway checks: a warning when a person is alone in a zone too long, and when a person in a forklift lane walks outside the walkway

Left behind, removed and blocked exit checks against an approved reference picture of a zone, marked Experimental: they compare a zone with a reference picture

An Object seen rule that raises an event for the object you pick, from any object your installed object models can find, with outlines or rotated boxes on live view and objects that keep their number as they move

Number plates at the gate: plates read on gate lines an administrator switches on, allow and deny lists, unknown plates held for someone to let in or turn away, and plate reads kept 30 days by default

Area analytics: where people stood, how long

Conveyor counting 1

Conveyor counting with batches, a count screen and an operator panel output: items on a belt counted by the camera above it, a New batch button that restarts the batch count while the total keeps going, every batch kept for a CSV or PDF report, a count screen for a big monitor, and the counts written to the operator panel over a serial link

Checks and the checking budget 5

Checks per camera: PPE, Security, Safety and Counting each switched on with a chip, and each camera's checks kept when a check is switched off

Measured costs: each check's time per picture is measured on the server, and the Checking budget says how full the server is

Asked versus achieved: a camera the server checks less often than set reads so, with the reason, and Set to what fits lowers the slowed cameras at once, with Undo

Running now on Cameras, Apps and Models: each model's speed, cameras and memory, and a model that does not fit in memory is refused with a sentence that names the cheapest fix

A capacity plan with a slider for the checks on each camera, and a cost card marked measured or typical figure

Alerts, evidence and reports 14

Reports: a compliance summary for any period, as a branded PDF and CSV

A warning stage before a violation, rule schedules in the site time zone, and one event for a person two overlapping cameras see

Incidents: assign, discuss and resolve a violation, with a downloadable evidence pack

Event evidence: clips play with their marks, the changed area is outlined, a full-screen viewer with keys and touch, and admins delete one event or clear many at once

Visits: each stay of a person in a zone, a visit log with CSV export, and a Visits tab on Reports

Alarms on every page, with email, text, webhook and siren outputs, routes and escalation; one mail server, email to groups of people with an hour of retries, and a delivery log that pages back and retries

A shift handover report filled in with open incidents and camera issues, for a supervisor to sign off

Sound alarms and calls for help: microphones in chosen zones score alarms, breaking glass, bangs and calls for help, keeping only a score and a short clip with speech muted; off until the privacy profile allows it and an administrator switches each zone on

Ask the site: ask in plain words on the Ask page and get an answer with its evidence, the filters it used, clips to play, incidents to start and a PDF, worked out on the site's own server by fixed rules

All sites: a head-office page with a card per site for compliance, open alarms and camera health, filled by sites that report totals only

People and privacy 7

People tracking, with faces for named people

Names and faces only for admins, supervisors and reviewers

A People directory: groups, a watchlist and enrolment from photos

Retention for each kind of data, capped by the site's privacy profile

Privacy profiles for the site's country on a Privacy tab; the strictest rules apply until one is picked; camera sound stays off until an administrator switches it on for one camera, and some profiles keep it locked off

Face photos and consents of a named person not seen for a year are deleted, with a warning on the System page two weeks before; a person on legal hold is skipped

Every privacy limit shown beside its setting, a reason asked above the advised value, and the privacy contact named on the sign-in page

Visitors and time on site 2

A visitor kiosk at the gate: register visitors before they arrive, check in by QR code or typed code, a PPE check for their area, a printed badge, a gate desk that sees every kiosk and a visitor log as CSV

Time and attendance: faces recognised at chosen gate cameras become a sheet per shift with clock-in, clock-out, time on site and late, corrections by reason and a date-range report; off until the site confirms its privacy profile

Floor map and muster 2

A floor map made from a sketch or a photo of one, a zone drawn once for every camera, blind spots and where to add a camera, and a live map of people with alarms and room counts

Muster and evacuation roll-call: start a drill or a real muster from the floor map, see how many people reached each muster point and how sure that count is, mark people safe and print the roll-call

Notification choices for each kind of alert in your browser: Bell only, Pop-up or Pop-up with sound, with an urgent tone for High violations that can repeat until someone takes the violation, and Do not disturb that follows you on every device and never silences an alarm

Accuracy and training 8

Manual dataset labelling, training and the model library

A blind weekly accuracy check and a check set for each camera, staged walks that measure missed gear, short clips that measure lost or swapped people, and broken tracks joined so one person raises one violation

A grade for each camera from its accuracy checks, size limits for that camera alone, figures marked current, recomputing, stale or aged, unreliable cameras left out of a figure, and a moved view noticed

A new model, a counting setting or a camera's size limits is replayed on the saved check sets before it takes effect

Model comparison on the golden set, with a printable validation report

Dataset tools: suggested boxes, YOLO and COCO import and export, editor zoom and keys, queue filters and bulk decisions

A new model must not be worse than the live one, item by item, and test images stay out of training

Training waits for free memory and takes a capped share of the graphics card, so live detection is never starved

Models and engines 8

- A licence badge on every model with no licence question at install, and release builds that install only models with a published checksum
- A fast person detector, D-FINE small, for new sites; a site that already runs a person model keeps it
- RTMPose, a pose model that runs on every installation, so Person down can use its pose method without the PyTorch engine
- An outdoor fire and smoke model, trained on outdoor and aerial scenes, beside the first one when Safety checks is on
- Faster detection on Intel hardware through OpenVINO, picked automatically once installed
- Model kinds on every library card: boxes, outlines, rotated boxes, body points, whole-picture labels and click to outline, with each size marked as running on the CPU or needing a GPU
- Object models for any Ultralytics family, each switched on per server load: a heavy one starts switched off, and Type what to find makes a copy that looks only for the names you list
- Click to outline uses the SAM, SAM 2, MobileSAM or FastSAM model you activate, with MobileSAM the light choice on a server without a GPU

Signing in 7

- A sign-in page in your brand
- Keep me signed in, request access, forgotten-password links and change password
- Approving requests, invitations, reset links and temporary passwords, with no email
- Two-step sign-in with a phone app and recovery codes, which administrators can require
- Your own roles beside the built-in ones, each permission explained
- Signed-in devices on My account, with the address and device of each
- QR codes for reset and invitation links, so a link reaches a phone without typing

Administration and licence 6

Storage page: disk use over time, an activity log and cleanup, with alerts when space runs low

Licence page: activate online with a product key, or offline from a licence file

An Apps page: administrators switch apps on and off, and the menu, the Overview and the AI engine follow

The licence page, editions, locked features, banners, the brand and the camera limit from the licence

A Backups panel with warnings when backups stop or fail, restore tests that show a backup comes back, and a support file that is safe to send

A warning on the bell and the System page when saved camera passwords cannot be read after the server's secret key changed

Install and updates 9

One-click install on Docker, Ubuntu, Windows and macOS

Updates from a file or an online folder: signed packages checked on the server, installed from Settings with one-click rollback, or at night when turned on

Setup backup and restore: the whole set-up in one password-locked file, put back in one guarded flow with an undo file

Release builds: a signed package installs with one command on a Docker server, or as background services with a built-in database on Windows and macOS, and a server that runs from the source code moves onto it

A load test that says how many cameras fit, and an acceptance checklist

Operator and administrator guides, and an operator training deck

A monitoring endpoint of Prometheus metrics for your own tools, off until a metrics token is set, and a public health check for uptime services

Helper servers: add another computer you own with a join code and move cameras' checks to it; if it stops answering, its cameras come back to the main server within a minute, and each camera and event says which server checked it

Automatic camera moves: when the main server stays busy, cameras move to a helper with room and come back when it is quiet again, within limits you set

Look and feel 4

The finished look of today's pages: Overview, Monitor, Events, Rules and Training

Calmer, faster screens: movement only where something changed, reduced-motion support, and pages that load their data as you reach for them

A clearer interface on every page: each control explained with its default and range, Customize on every page, page states and phone layouts

A set-up list for new sites, and Monitor pins and your look kept with your account

In progress 10

- Switching on online activation: the vendor's activation address and production key (the Licence page and the service are built)
- Measured error ranges on every report figure
- Site operations: signed handovers sent by email, masked for each recipient
- Vehicles on the live floor map
- A security review: a written threat model, how to report a problem, and checks for known weak packages and committed keys before each release
- Email beyond alarms: system emails with a back-to-normal message, wording you can edit, a choice and an unsubscribe link for each person, and daily and weekly digests
- Sinhala and Tamil: names print in PDFs today; screens, alerts and reports next
- A welcome on the first sign-in sets the site's clock; the set-up list also asks for the privacy country, two-step sign-in for administrators and the nightly backup
- Visitor kiosk: matching a visitor's face to their expected visit
- Ask the site with a local language model, the site's manuals and a policy editor

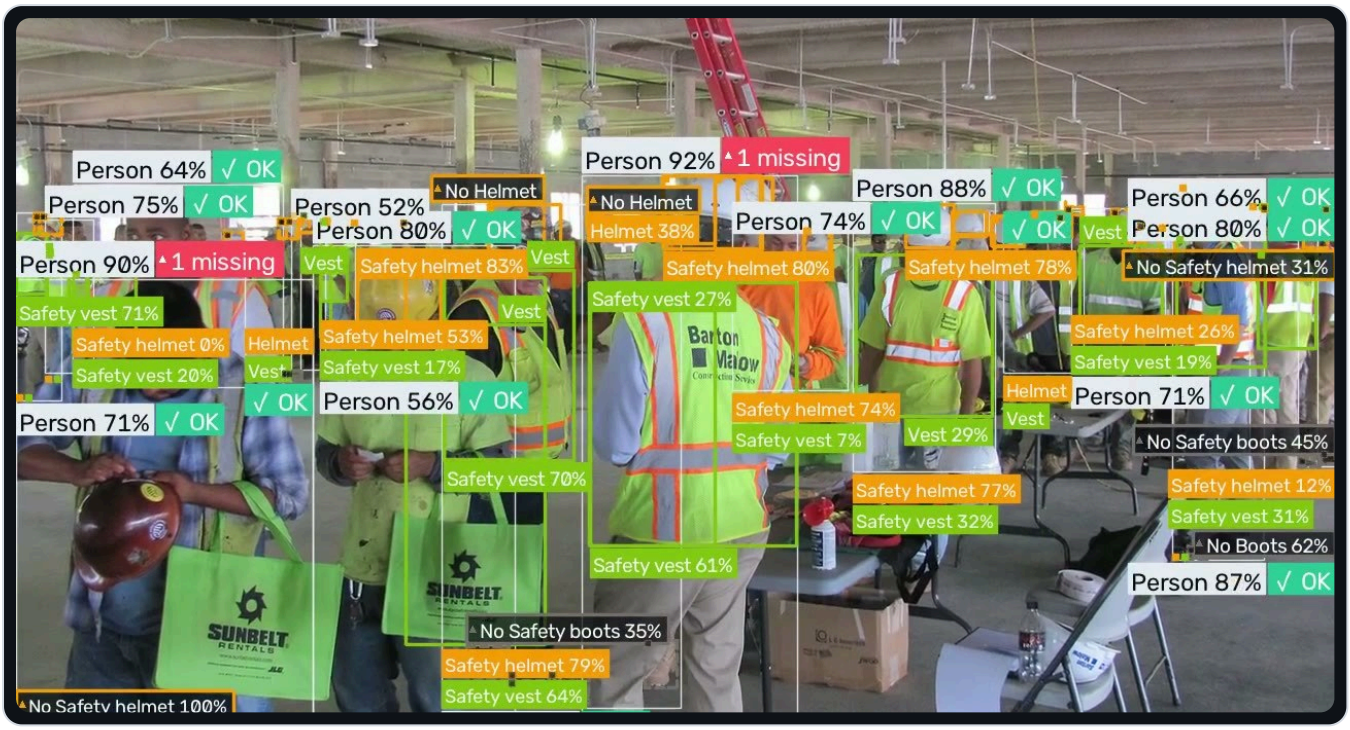
Planned 4

- A checking budget that shares time by priority, one model call for all cameras, and calm people checked about once a second
- Plant watch: belts, guards, lamps and spills, and moments that look different from normal
- Behaviour recognition, ergonomic risk from pose, hand gestures and crowd density
- Speech to text, voice notes and unusual machine sounds

Later 2

- Trails and path replay across cameras
- Not planned for version 1.1, on request: an update feed run by the vendor (updates come from a signed file or an online folder you set up), thermal cameras, OPC-UA and Modbus beyond the Conveyor Counting panel output, cloud sync, native phone apps, motion events sent by cameras, syslog export, turnstile and barrier drivers, an in-app product tour, wall pins across machines, and ARM processors

See it work



Every person tagged OK or with what is missing, each PPE item in its type colour. Demo footage built from public-domain photos.

When it is fully built

One on-site platform for every camera on the site, sold under your own name. Each app switches on and off on an Apps page, and the licence decides which apps a site may use.

CCTV and recording

Live wall, recording, a playback timeline, export, PTZ and camera discovery.

PPE compliance

Zone rules, confirmed violations with evidence, review, and a model that learns the site.

Security

Faces of named people, a watchlist, no-go and authorised-only zones, camera tamper and a floor map studio.

Safety checks

Fire and smoke early warning, person down, phone use, forklift proximity, safe corridors and occupancy.

Counting and area analytics

In and out lines, occupancy, heatmaps, dwell times and queues.

Vehicles and number plates

Vehicle counts and plate reading at gates.

Video search

Find people and vehicles across recordings by describing them.

Time and attendance

Arrivals and departures of named people, from the cameras they pass.

Incidents, alarms and reports

Assign and resolve incidents, alarms by siren, SMS, WhatsApp and email, and branded PDF and CSV reports.

Available today

Everything in this section runs in the current release. It has been verified end to end: from a camera feed to a reviewed event, to a model trained on the reviewed frames and activated by a person.

Live monitoring Available 8

Monitor wall

Auto brings the camera that needs a person to the front; Focus, fixed columns, pins that follow your account (and can be set for every screen), Kiosk and a wall screen for a second display.

Compliance tag per person

Each tracked person shows OK or the number of missing items; each PPE item is boxed in its type colour.

Notifications

Live bell with unread count, per-camera mute and optional desktop notices. For each kind of alert in your browser (High, Medium and Low violations, and account and system notices) you choose Bell only, Pop-up or Pop-up with sound. High violations get an urgent tone and other alerts a soft one. Alarms always ring with the siren and a red banner, whatever you choose.

Alarms and outputs

A red banner, a siren and a header chip on every page until someone acknowledges the alarm, which also switches the siren off.

- In Settings → Notifications, administrators add channels (email, webhook, SMS, WhatsApp, an HTTP siren or beacon box and a fire-panel watchdog), with secrets stored encrypted and never shown again.
- Routes pick channels by check and severity, unacknowledged alarms escalate, and quiet hours, which follow the site time zone and can be set per day, never hold back alarms.
- Email goes through one Mail server panel, with presets for your own server, Microsoft 365, Google or another provider, and Send a test names the step that failed.
- An email output sends to a group of roles, people or addresses: each person gets their own email, retried for up to an hour.
- Routes can be limited to cameras and zones.
- A delivery log shows what was sent, pages back and can retry failed sends.
- The watchdog stops pinging when detection is unhealthy, so a fire panel raises a fault, and if the server stops responding the HTTP outputs switch on by themselves.

Slower checks under load

When the computer is overloaded, loitering, phone, smoking and forklift checks run at half rate, one by one, and so can the far look for people and vehicles. Fire, smoke and person-down checks are never slowed. The System page lists the slowed checks, and the header shows "Not enough compute".

Live video off site

When the browser cannot reach a camera directly, the tile plays the video through the server, about a second behind, before it falls back to pictures. On an iPhone this needs iOS 17.1 or later. Small tiles and walls of five or more play the lighter sub stream, and a focused tile plays the full stream.

Pose, hazard and phone marks

A person flagged as down gets a red outline, fire, smoke and forklift boxes show in the check's colour, and a Skeleton switch draws the body outline when a pose model runs. Hover a person's box to find their row in the summary.

Pan, tilt and zoom

A camera that can turn gets a pad on the Monitor: hold to move, zoom, a Home position, and saved views you can name and remove. Admins, supervisors and reviewers move cameras; viewers cannot.

Playback and export Available 4

Playback

Look back at what the cameras recorded.

- Up to four cameras play at the same moment, and a tile says so where its camera recorded nothing.
- A timeline shows a lane per camera with recorded and not-recorded spans, motion and event marks, a day strip and a Jump to time field.
- Speeds run from 0.25× to 4×, with 8× key frames only; Space plays, the arrow keys step, and Sync cameras and Pause at events are options.
- A camera an administrator switched Record sound on for plays its sound muted; an unmute button on its tile turns it on.

Boxes over recordings

The boxes the system found are drawn over the recorded video, with Labels and a button per PPE type. A camera that records but is not analysed says so. Video from a camera with a vehicle line shows each vehicle's box and type too.

Open in Playback

Events, incidents and the Monitor inspector (Look back 5 minutes) link to the right moment for roles that may watch recordings.

Export a clip or snapshot

Pick the cameras and times, give a reason, and download an MP4 or a picture with a manifest that Verify checks again. Boxes in an export are only those the system made. Admins, supervisors and reviewers can export; viewers can watch. Finished exports delete themselves after 14 days. An export holds pictures only, except from a camera that records sound. Each export is signed unless Sign this export is switched off (see Signed exports and Check a file).

Cameras Available 11

Any IP camera

RTSP and RTSPS (Hikvision included), HTTP streams, USB webcams and video files. Each camera can keep a local and an outside address.

Main and sub streams

Detection runs on the light sub stream by default. Read the main stream for detection checks the full-size picture instead, and Find far people and vehicles looks again at the far part of the picture for small, distant people and vehicles; both are off by default and cost more processing (a far look makes a camera about 3 times the work). The main stream is recorded in 60-second segments without re-encoding.

Areas

Group cameras into areas: create, rename, reorder, fold and delete them on the Cameras page. A camera with no area sits in a last group, so none disappears. The Monitor, Overview, Reports, Visits and Incidents pages have an Area filter, the Cameras and Rules pages group by area, Reports adds a By area table, and the wall screen rotates through areas.

Paused over the licence limit

When a licence allows fewer cameras than are added, the newest cameras are paused and say "Paused — licence limit". The oldest keep running and nothing is deleted.

Add cameras from an NVR

Enter the recorder's address and login, pick channels 1 to 64 and see which answer before anything is added. Cameras are added together or not at all.

Record sound

Cameras keep pictures only unless an administrator switches on Record sound for one camera. It is in the Recording section of the camera's form and is off by default. The administrator confirms that everyone in view is told that sound is recorded and gives a reason of 4 to 500 characters, which goes in the audit log with their name. A privacy profile can keep the switch locked off.

- That camera's sound is then kept in its recordings, evidence clips and exports.
- Live view and Playback play it muted until someone unmutes it.
- Switching it off needs only permission to edit cameras and acts at once.

Find cameras

Searches the networks the server is on by itself, or a typed address range of up to 256 addresses, marks the cameras already added and any recorder, reads a picked camera's streams with the login you type and opens the camera form filled in. Add all channels fills the recorder form.

Vendor presets and Test connection

Hikvision, Dahua and EZVIZ presets fill the main and sub stream addresses. Test connection opens the stream and reports its codec, size and rate, or why it failed. The password is never shown.

Fixed items and floor calibration

With Safety Checks on, a camera has a Fixed items tab for lamps, signs and vents the checks should ignore, learned from steady boxes and confirmed by a person.

- Every camera's Settings tab has Floor calibration, with 4 to 8 matched points, a tape check and a plain accuracy figure, so forklift distances are in metres.
- Measure a floor rectangle is one way to start, and existing calibrations carry over.

Accuracy and size limits

A camera's page shows its accuracy grade (Counting, Presence and PPE only, Unreliable or Not yet checked), how much of its zones is big enough to judge, and size limits that can be set for that camera alone: Presence, Counting line, Head and torso items, Hands and feet items, Identity and Face, each in pixels tall.

Where each camera runs

With a helper server added, each camera shows the server that runs its checks, or Waiting for room, and Where to run its checks lets an administrator pin it to one server. It is still recorded on the main server.

Floor map Available 3

Draw or upload each floor

Floor map (Operate) shows the site as one place. Edit in the studio opens five steps: Plan, Cameras, Calibrate, Zones and Publish. Zones draws a zone once for every camera that sees it.

- On Plan, choose a picture or a PDF page of the floor plan, or Start drawing with the Wall, Room, Stairs, Lift, Fixed item, Door and Label tools.
- Mark a line you know the length of to set the scale. Measure again at any time and the whole draft is rescaled.
- Nothing on the live map or in detection changes until you publish. Editing needs permission to edit cameras.

Place, aim and calibrate cameras

The Cameras step lets you click the plan to drop a camera, set which way it faces and how far it sees. A camera already on another floor says so and cannot be dropped twice.

- The Calibrate step shows the camera picture beside the plan, so clicks on the plan give the floor points in metres.
- A camera calibrated on its own can be fitted to the plan with Fit to the plan, by dragging its outline or clicking two matching points.

Publish and look

Review and publish puts the draft on the live map. The map opens in 3D, with 2D and a flat plan when you need them, and a Floor list when the site has more than one. A camera on no floor map shows Not on the map in the camera list, with a link to place it.

Zones and rules Available 9

Zones

Draw zones on each camera. A person is judged by the smallest zone their feet stand in, after an entry grace period.

Rules matrix

Tick the PPE each zone requires. Each rule has a severity (High, Medium, Low), optional hours and weekdays that follow the site time zone (Settings > Site), and optional warn after and violate after seconds.

Warning before a violation

A person who has been missing an item for the rule's warn time shows amber on the live wall and in the summary, with the item named. Burned-in snapshots are labelled Warning. Nothing is stored as an event until the violation time is reached.

Safety and security checks tabs

The Rules page has four tabs: Requirements, Safety checks, Security checks and PPE types.

- The two checks tabs list every zone against each check whose app is on and licensed, with a switch, severity, alarm, settings and hours per check.
- Security checks holds Restricted area, Loitering, Unknown face, Watchlist match, Authorised people only and Camera blocked or moved.
- A check that cannot run says why.

Counting page

With People Counting on, Counting (Operate) shows Counted in, Counted out, Inside now and Busiest hour, a bar for each hour of people coming in and going out, Inside now for each area against its limit, and a table of Counting lines. Choose a Period and an Area, and download a CSV per line, a CSV per hour or a PDF report.

Class maps

Map any model's classes to your PPE types, including "no helmet" classes counted as evidence of absence.

Overlapping views

Where cameras in one area see the same ground, a violation both see is one event, and the event page shows the second camera's pictures under Also seen by. The Monitor counts people from the camera that sees the most and shows the most there could be.

Counting lines

With People Counting on, a camera page has a Counting lines tab: draw a line of 2 to 8 points, set Counts into area and Counts out of area, and see today's in and out counts. Each count says its error is not measured yet. An area can set Most people allowed, and a warning opens after a minute over the limit.

PPE types and presets

Built-in types with their own colours, custom types for site-specific equipment, and two presets: construction and industry, and hygiene and food safety. A preset lists what it switches on and off, and keeps your zone rules.

Safety helmet · Safety vest · Goggles · Gloves · Safety boots · Face mask · Coverall · Ear protection · Face shield · Safety harness · Hairnet · Apron

The first six are on by default. Coverall, ear protection, face shield, safety harness, hairnet and apron are switched on per site. On the Rules page, Start from a preset switches on the types for construction and industry, or for hygiene and food safety.

Vehicles Available 3

Vehicles page

With the Vehicles & Plates app on, Vehicles (Operate) counts cars, motorbikes, buses, trucks and bicycles crossing a line on a camera, in and out. It shows Vehicle crossings, Wrong-way alerts and Vehicles by type for Today, Last 7 days or Last 30 days, for all lines or one. Each pass over a line counts once, so in plus out is crossings, not vehicles. It works with or without PPE detection.

Boxes and a report

Playback draws each vehicle's box and type on video from a camera with a vehicle line. Reports has a Vehicles tab with crossings by type and hour on each line and every wrong-way alert, as a landscape PDF or a CSV.

Lines with a one-way rule

Set up lines and bays opens a window where you pick a camera and draw a line across a gate or road on its picture. Allowed direction is Both ways, Only in or Only out, and a vehicle going the other way raises a wrong-way alert. Switch Ring on wrong way off and it is only logged and counted. Settings → Vehicles sets the smallest vehicle counted. Parking bays and number plates are not built yet.

Detection you can trust Available 8

Tracking, not single frames

People are detected and tracked, and each PPE item is matched to the right body region of the right person.

Confirmed over time

A violation opens only after an item stays missing for 8 s by default and clears after 2 s of being seen, so a flicker never raises an alarm. When the model can tell a bare head from a hidden one, only a bare head starts the clock: a helmet out of sight pauses it, and the live view says Can't see helmet.

One event per episode

One event per person per episode, a 60 s cooldown, and a size limit per item: 80 px for a helmet, 140 px for gloves. When a camera loses a person briefly and finds them again, it joins the two pieces into one person with one violation; pieces it is not sure about stay apart and count as possible repeats. Two people who pass close enough to be mixed up are both checked again for 2 seconds.

Safety and security checks

Fire and smoke need to hold through a short window, person down uses a pose model or a dedicated model, phone use counts a phone held by a person, smoking is experimental, forklift proximity uses metres on a calibrated camera, and restricted area and loitering work per zone.

- Unknown face, Watchlist match and Authorised people only read the faces of enrolled people, and a watchlist match is always a possible match, never proof.
- Camera blocked or moved raises an alert when the picture is covered, blurred, very dark or turned away.
- A lamp that looks like fire raises only a low-severity event until it is learned.
- Occupancy limit runs with the People Counting app.
- Above Most security alerts per camera per hour (Settings → Detection), a camera keeps further security alerts as sightings and shows one notice; alarms still ring, and 0 means no limit.

Thresholds you can tune

All timings and confidence levels are site settings that apply live.

A grade for each camera

Each accuracy figure is marked current, recomputing, stale or aged, so a figure that no longer matches the camera's settings, or whose check set is too old, is not read as fresh. A camera whose checks show it cannot be trusted for a figure is left out of it and named under the figures, as Excluded, instead of quietly moving the site total.

Changes are checked before they apply

A new model, a counting setting or a camera's size limits is replayed on the camera's saved check sets before it takes effect. A camera whose new figures do not hold up loses its grade at once, and saving without the check also leaves it ungraded (Not yet checked) until it is checked again.

A moved view is noticed

Each day the system compares a camera's picture with a saved one. If the view has shifted, or the camera's stream changed, its accuracy figures read Not yet checked and an alert asks you to check its zones and collect a fresh check set. A weekly check that shows a camera's protective gear claims going wrong also asks for a fresh check set.

Evidence and review

Available 8

Evidence with every event

Annotated and raw snapshots at the moment of the violation, and a video clip cut from the recording within about a minute.

Filters

Filter events by camera, severity, review state, missing PPE, person and check.

Video search

Find recorded footage by describing it or by showing an example picture. Each match is a still with its camera, time and score, hovering plays a 30 second clip, and a selected moment opens in Playback or exports as a clip. Everything runs on this server, and searches are logged.

Review

Mark each event a real violation or not a violation. Events marked not a violation go straight into the training queue.

Acknowledge alarms

Alarm events show an Acknowledge button in the list and on the event page, for roles that may review events. Afterwards the page shows when and the note.

Overview

Camera health, open violations and the trend at a glance, with what needs attention first.

Reports

A compliance summary for any period, in the site time zone: time in compliance with its range, violations with their rate, ids seen as an estimate, charts by day, PPE type, hour and weekday, top zones and cameras, each against the previous period.

- Filter by camera, PPE type, shift and area; download a branded PDF or a CSV that opens correctly in Excel, with an Area column.
- Names written in Sinhala or Tamil print in report and incident PDFs; the screens are in English only.
- The Compliance tab also lists events, alarms and how many events review confirmed per check, and how many detections each camera's fixed items ignored, in the PDF and CSV too.
- Where to look first ranks the zones or shifts where problems cluster, never people.
- Customize picks what a report shows and the area, PPE type and shift it opens on.
- The Visits and Incidents tabs each have their own report: the incident log exports as CSV, JSON or PDF, and the visit log compares with the previous period and prints as a landscape PDF.
- The Vehicles tab reports crossings by type and hour on each line, and every wrong-way alert, as a landscape PDF or a CSV.

Incidents

The Incidents page with status tabs, assignment, notes and history, an incident PDF and an evidence pack as a zip, the Events CSV export and a Held only filter. The bell shows incidents assigned to you, and legal hold on events survives every delete path.

People and security Available 6

Cross-camera identity

Each person gets a stable id such as `P-1A2B3C4D` across cameras, with a journey of where and when they were seen.

People directory

Enrol a person from one to five photos, or add photos to someone already there. Put people in groups, mark a watchlist, see who is on site now and when someone was last seen. Delete face data alone, or delete the whole person; sightings and events stay under the bare id. The face photos and consents of a named person who has not been seen for a year are deleted and the name stays. Two weeks before, the System page warns how many people will be deleted and on which day, and a person on legal hold is skipped.

Names and merges

Name a person once and the name follows them; merge two ids that turn out to be one person.

Visits

Every stay of a person in a zone, with when it started and ended and the PPE they were missing. A visit log to filter and export as CSV, a Visits tab on each person and on Reports, and a visit gap setting (60 seconds by default). Visits are kept 90 days by default, and merging two people moves their visits.

Face recognition for named people

Optional. Only named people are matched. Under the strictest rules, which apply until the site picks its country, the face of an unnamed person is not kept; a profile can allow longer. On security cameras each person shows their name, Unknown, or a possible watchlist match, and the People page shows for each camera how often a face was clear enough to recognise.

PPE or security mode

Switch PPE checking per camera or for the whole site. With PPE off the model unloads and frees the GPU.

Training on your site Available 7

Hard examples collected for you

Uncertain, low-confidence and unusual frames are saved for review, rate-limited per person and per camera-hour.

Review and label

Correct boxes and classes in the Datasets review queue; approve, reject or add to the golden set. Suggest boxes draws dashed boxes to accept or discard, from the active model or a built-in labeller. Labels import and export as YOLO or COCO, the label editor has zoom and the keys A, R, N, the numbers and Delete, and the queue has filters and bulk decisions.

Golden set

A permanent validation set, never trained on, that every new model is measured against. Evaluate scores any model on it, with ranges, misses and a confusion matrix; Compare shows two models class by class and says plainly when the new one is worse; and a Model validation report prints as PDF or CSV.

Test images stay out of training

Training and test images are split by camera and hour. A picture taken within 10 minutes of a test image or an accuracy check on the same camera is left out of training, and the dataset notes say how many were left out.

Training in idle hours

Jobs run in the idle windows you set and pause when live cameras need the GPU. A job also starts only when enough memory is free and, on a graphics card, uses at most a set share, so live detection is never starved; the job says what it is waiting for. Automatic training is optional.

A person activates models

A new model never goes live by itself, and rollback is one click. New sites need 85% on their own test images to go live (Minimum score to go live). Activate compares the new model with the live one item by item: an item more than 2 points lower, or under its minimum, needs a written reason of at least 10 characters, and the page names the item.

Accuracy checks

Improve → Accuracy checks, for admins, supervisors and reviewers, has the tabs This week, Disagreements and Camera sets, and three figures at the top that each open their tab.

- Reviewers answer a blind weekly set of moments, and the answers never change an event.
- An admin collects a camera's check set over four working days, and a reviewer fixes its boxes and answers, so each camera is measured on its own pictures.
- On Camera sets, Start a walk measures how often a missing item is caught: a supervised walk past the camera without one item at a time, near, at middle distance and far. Walk without an item only during a stoppage or under supervision.
- Collect clips gathers eight short clips for the site, and Label a clip lets a reviewer say who is who in them. They measure how often the system loses or swaps people, and they tune how pieces of a path are joined.
- It is on by default; Settings → Counting & coverage sets its size.

Models and the Test bench Available 6

Model library and Test bench

Install ready-made models, search all 664 models that could be added and install from that list, import `.pt` or `.onnx` files, make an ONNX copy of a model, bake a hygiene labelling model, and check photos or stored videos on the Test bench. A Running now table shows each model's memory and speed, and the All models shortlist is shared by all administrators.

Licence on every model

Each model card shows its licence, built-in models included, and installing from the library or from a URL asks no licence question.

- Ultralytics models run in every edition.
- A release build installs only models with a published checksum, and turns off Add from URL and says why.
- New sites download a pinned D-FINE small person detector (Apache-2.0); if the GPU cannot run it, it runs on the processor, and if it cannot load, the built-in detector finds people.

Hazard, behaviour and pose models

With Safety Checks on, the Models page holds fire and smoke, forklift, behaviour and pose models, several active side by side, and a button to bake a person-down model. RTMPose, a pose model that runs on every installation and is quick on a processor, lets Person down use its pose method without the PyTorch engine; other pose models need it. A second fire and smoke model, trained on outdoor and aerial scenes, suits yards and open sites and runs on the Ultralytics engine that every release build includes.

Test bench replay

A finished test video replays with its recorded boxes and violation ticks, and shows Before and After a reanalyse. A video run can name the safety checks it must cover, and a picture shows their boxes.

Model qualification card

Each model on the Models page shows its licence and commercial use, whether its checksum was verified, whether it loads on this PC, its speed and its accuracy, with Run or Re-run benchmark. Models installed from the library are benchmarked automatically. A signed online model feed and discovery of new releases (shown as unverified) are optional and off until an operator turns them on.

Test bench modes

Analysis mode Fast, Accurate or Max; a person and PPE model chosen per run; model A and B with a second opinion and an A/B difference; video runs with a report and CSV; and the rebuilt page with a compare slider and export.

Accounts and access

Available 7

Sign-in

Keep me signed in on trusted devices, a Caps Lock warning and messages that say what went wrong. People can request access and reset a forgotten password from the sign-in page, and change their password from the account menu.

Accounts without email

Admins approve or reject each request and pick its role, invite people by a one-time link, and hand over a reset link or a temporary password. A new request rings the bell, and Settings → Sign-in & access turns requests on or off.

Names and faces by role

Admins, supervisors and reviewers see names, face pictures and the People page. Viewers and display screens see none of them, and an event shows them no person.

Roles

Admin, supervisor, reviewer and viewer, plus custom roles an administrator can build (up to 20), each seeing only the pages it may use. A custom role never gets more than the person who builds it holds.

Display accounts

A viewer account can be flagged as a display for a wall screen. Sessions last 30 days and slide forward while in use. Only admins can update the system.

Audit log

Every change to cameras, rules, models, people and settings is recorded with who and when.

A clear sign-in page

A split-screen sign-in with your brand on one side and a focused form on the other.

Licence and white label Available 4

Online activation

An administrator types a product key on the Licence page and the server gets a licence bound to its installation ID. The licence renews itself once a day, and a server can be moved to another one with its key. It shows where the build has an activation address; the offline licence file works everywhere. Only the key, the installation ID and the software version leave the site.

Offline licence file

Activation works offline with a signed licence file, bound to the installation ID. It sets the edition, modules, trial and grace period (a released trial key ends at once, while paid keys keep the grace), and a guard stops a rolled-back clock from extending it. Manage it on the Licence page.

Fully white-label

The product name, logo and accent colour come from the licence, so the vendor sets your brand; a licence with Own branding lets an administrator change them. The site name stays yours to edit. The sign-in page, every screen, reports and the browser tab use them.

Licence page, banners and locked features

Administrators see the licence status, installation ID and history, apply a file or activate online, and renew or move to another server. A banner on every page warns of a trial, an expiring or expired licence, a clock that runs behind or an AI engine that disagrees. A feature outside the licence stays in the menu with a lock and says who to ask.

Data, privacy and backups Available 5

Secrets protected

Camera passwords are encrypted at rest; production refuses weak or default secrets, and a go-live check reports them.

HTTPS

Built-in proxy with Let's Encrypt certificates, or an internal certificate authority for offline sites.

Privacy profiles

Settings → Privacy, for admins only, picks the site's country and applies its privacy profile.

- Until a country is picked, the Strictest profile applies: recordings are kept at most 30 days, clips and snapshots 90 days, evidence and event records 3 years, and sightings and visits 90 days, and the faces of people with no name are not kept.
- A save above a limit shows the limit.
- Recordings, evidence clips, exports and live view carry pictures only, unless an administrator switches on Record sound for one camera. It is off by default, and a profile can keep it locked off.
- Each setting with a privacy limit shows the limit beside it, and the Privacy tab lists them all. Above the value the profile advises, the platform asks why, and the reason goes into the site's privacy paperwork; it never locks anything.
- Once the site fills in its privacy contact, the sign-in page says that sign-ins are recorded for security and where to send privacy questions.

Storage

The Storage page with use by category, a forecast, clean-up that asks you to type DELETE, retention for each kind of data capped by the site's privacy profile, a space-saving mode (Auto, On or Off), critical cameras exempt from clean-up, a guard that refuses uploads when the disk is nearly full, and log rotation.

- Exports are measured as their own category and delete themselves after 14 days, and a detections file is kept and deleted with each recording segment.
- Settings > Storage replaces Retention.

Health and backups

A health check for monitoring tools, nightly backups with a restore script, a Backups panel on the System page with a warning when backups stop or fail, a support file an administrator can download with passwords, keys and email addresses taken out, and documented upgrade and rollback.

Interface Available 5

Command palette

Jump to any page, camera, person, event or model with `⌘K` or `Ctrl K`, or find a setting by its name or a word from its description.

What's New in the app

The sidebar shows the running version. Open it to read what changed in each update; a dot marks news you have not seen. A release with a long title shows a short line while it is folded, ending in "and more"; open it to read the whole title.

Calmer, faster screens

A page fades in once and nothing replays on a second visit or a filter change.

- Lists, charts, markers and counts move only when their data changes, and with reduced motion switched on in your system a change shows as a short fade.
- A page opens filled in after a pause on its menu entry, the Rules page and the Overview open faster, and during a burst of events the lists refresh together about every 1.5 s while the alert count and pop-ups update at once.

Light and dark themes

A dark control-room theme by default and a full light theme. Theme, row spacing and home page are kept with your account, under Your preferences.

Controls that explain themselves

Every setting, control and Customize option has a plain name and one line on what it changes, with its default and range.

- Overview, Events, People, Rules, Training, Models, Datasets, Users, Licence, Apps, System and the camera pages all have Customize, and 30 glossary words show their meaning when you point at them.
- Customize opens beside the wall, so a change shows at once, and it follows you to any browser.
- Pages with help explain their parts on a small sketch, and ? opens a map of the keys.

Deployment Available 13

One server on site

Ubuntu, Windows or macOS. Docker Compose or system services on Ubuntu; background services that start with the computer on Windows and Apple-silicon Macs.

Works offline

Models are local files. If a service restarts, events queue on disk and replay when it is back.

Embedded database option

Run without a separate database server on small installs. Windows and macOS installs bring their own database and key-value store, so nothing else needs installing, and an earlier Windows install keeps its database and passwords.

Double-click setup

On macOS, Windows and Ubuntu a launcher installs what is missing, starts everything and opens the browser.

One-click installer

Docker, Ubuntu, Windows and macOS. It shows the admin password once and opens the local network only: the firewall admits the local subnet, and the server answers to a .local name over Bonjour. A re-run keeps the owner's settings and restarts the services. One owner step is left.

Signed release packages

One zip per operating system, compiled and signed with Ed25519.

- Each file is checked against its sha256 before install.
- Release packages ship no source code, and development keys are removed from them.
- On Ubuntu with Docker, one command installs a signed package and shows the first admin password once, and a retried install says where that password is kept. `platformctl install --adopt` moves a source install onto the release build and keeps the old copy.

Upgrade in place

Running a newer installer upgrades the existing install, keeps its data and settings, and keeps the previous version beside the new one so going back stays possible.

Updates from a file

An administrator uploads a signed update file in Settings, reads what is new and how long the platform will stop, and clicks Install.

- The new version installs beside the running one, and if it fails its checks the platform goes back by itself, unless that release turns this off.
- Then the new version stays installed, the Updates page says so, and an administrator rolls back in Settings → Updates or with `platformctl rollback`.
- After a database change, rolling back keeps a copy of the newer database for 7 days.
- Rolling back is one click for 7 days.
- An operator can do the same with `platformctl` on the server.
- Install and Discard work on an update that passed its check, and a version older than any installed before is refused (anti-rollback). `platformctl repair` rebuilds a refused update state.
- The first signed release is not published yet, so a packaged server does not accept update files until it is.

Signed exports and Check a file

Every export is signed with the site's own key and carries a list of check values, so a recipient can prove with OpenSSL that it is unchanged. A Share safely page checks any file against what this site exported, without uploading it. Settings has a Sharing tab for the key.

Remote access

Optional access from outside the site through a secure tunnel, with video and data staying on site.

Helper servers

Settings → Helper servers adds another computer you own to share the work when the main server is full. Add a helper server, then run the command it gives you for Linux, macOS or Windows on the other computer, where the platform is already installed; it joins within a minute.

- A helper can be on this site or somewhere else. The site's country must be picked first in Settings → Privacy, and footage goes to a helper in another country only with a transfer reason recorded for it. Faces, attendance and number plates stay on the main server.
- Each helper has Pause, Empty and Remove. Remove cuts it off at once and wipes what it keeps; its cameras then move to other servers, and Empty first moves them before you remove it.
- If a helper stops answering, its cameras come back to the main server within a minute and nothing is counted twice. The System page lists every server with how busy it is, and each event says which server checked it.

GPU acceleration

NVIDIA GPUs on Ubuntu and Windows; on a Mac, detection uses the Mac's own machine-learning chip. On Intel hardware, detection can run through OpenVINO, which was faster than the standard engine on the same processor in our test, and is picked automatically once installed. ONNX Runtime and TensorRT providers are included for tuning.

Offline alerts, load test and acceptance checks

The bell and the System page raise an alert when a camera goes offline, the camera checks or the trainer stop, or live updates fail, and close it when the cause clears.

- The System page also raises an alert when a helper server stops answering, needs an update, has its clock off or loses pictures.
- The System page runs a load test and says how many cameras fit, and an acceptance script checks a new site step by step.

Guided first-run set-up list

A new site opens on a short list of steps, from replacing the install password to adding the people who will use it. Each step ticks itself when the work is really done, an administrator can skip one with a reason, and the list hides itself a week after the last step.

In progress

Being built now. Each piece ships on its own.

- Switching on online activation: the vendor's activation address and production key (the Licence page and the service are built)
- Measured error ranges on every report figure
- Site operations: signed handovers sent by email, masked for each recipient
- Vehicles on the live floor map
- A security review: a written threat model, how to report a problem, and checks for known weak packages and committed keys before each release
- Email beyond alarms: system emails with a back-to-normal message, wording you can edit, a choice and an unsubscribe link for each person, and daily and weekly digests
- Sinhala and Tamil: names print in PDFs today; screens, alerts and reports next
- A welcome on the first sign-in sets the site's clock; the set-up list also asks for the privacy country, two-step sign-in for administrators and the nightly backup
- Visitor kiosk: matching a visitor's face to their expected visit
- Ask the site with a local language model, the site's manuals and a policy editor

Milestones

The plan, in order of delivery. Each milestone ships when its last piece passes acceptance; the table gives order, not dates.

#	Milestone	What it brings	Status
1	**Accounts**	Request access with admin approval, password reset that works offline, invitations, change password and keep me signed in, all in the browser.	Available

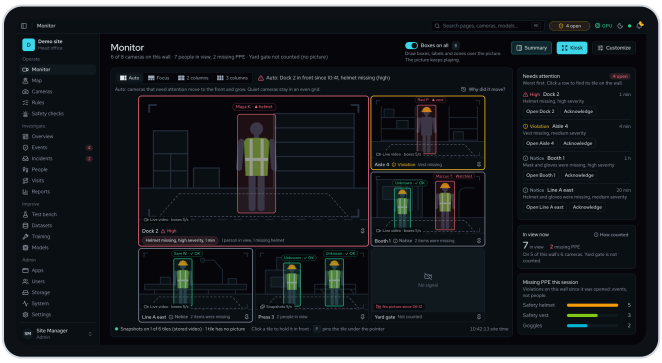
#	Milestone	What it brings	Status
2	**Client go-live**	Available: Reports, with branded PDF and CSV exports, an area filter and a By area table. Cameras and areas: presets for Hikvision, Dahua and EZVIZ, NVR bulk add, test connection, areas, one event for a person seen by overlapping cameras, a warning stage and rule schedules in the site time zone. Also available: visits and the visit log, incidents with evidence packs, storage with retention for each kind of data, and Test bench modes with A/B compare and CSV. Available: system alerts, a load test and how many cameras fit on the System page, acceptance scripts, dust coat and ear plugs for labelling, better labelling tools, a golden-set report, handover guides, a blind weekly accuracy check and joined tracks. Also available: a grade for each camera from its accuracy checks, with size limits for that camera. Also available: a camera health report and an accuracy report. Still to do: a measured error range on every report figure.	Available
3	**Sell-ready white label**	Signed licences with modules, camera limits and your brand; compiled releases that activate online or from a licence file, supported in production on Ubuntu (Docker images, NVIDIA GPU), Windows and macOS (Apple Silicon); licence-safe default models (Apache-2.0 detectors, with the licence shown for every model); a hygiene and food-safety PPE preset; and one-click install on Docker, Ubuntu, Windows and macOS. Built so far: the licence file and Licence page, the brand and camera limit from the licence, locked features, the Apps page that switches apps on and off, the licence shown for every model, a licence-safe default person detector (D-FINE small, Apache-2.0), the hygiene and food-safety preset, the install and release packages, background services on Windows and macOS, and the update engine. Still to do: the vendor's production activation address and key. The result opens at `http://<IP>` or a chosen `<name>.local`.	In progress

#	Milestone	What it brings	Status
4	**Security system**	Available: restricted area, loitering, unknown face, watchlist match, authorised people only and camera blocked or moved, an hourly alert limit per camera, the safety checks below, alarms with outputs, and floor calibration on every camera. Also available: helper servers that take some of the cameras, with failover to the main server, and a floor map studio where you upload or draw each floor, place and calibrate cameras and publish a 3D map. Also available: maps started from a photo of a sketch, zones drawn once and applied to every camera, blind spots, and a live map of people with alarms and room counts.	In progress
5	**More apps**	Available: counting lines, a most-people limit per area, a Counting page with who is inside each area and the busiest hour, and vehicle counts by type with wrong-way alerts. Also available: number plates at the gate, where people stood with dwell and queues, time and attendance, muster roll-call, and lone worker checks. Later: trails and path replay across cameras with clips and an evidence pack.	In progress

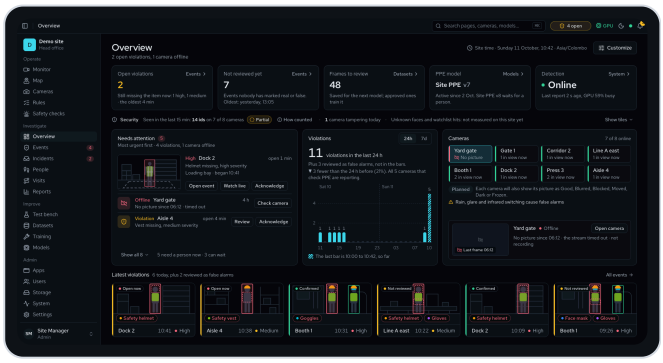
How it will look

Previews of the planned screens, from the approved designs. Details can change before release.

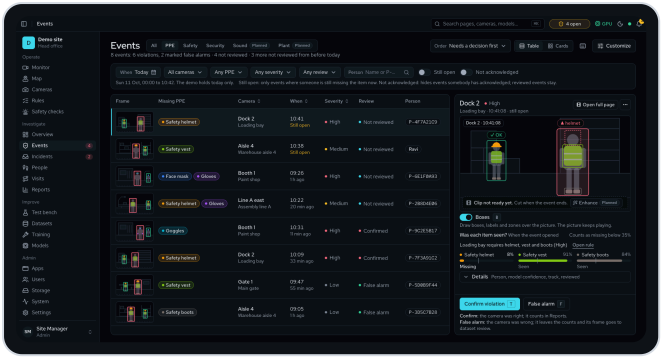
Today's pages Available



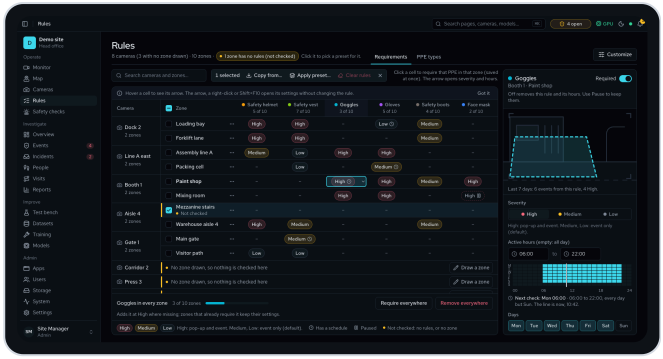
Monitor Available The Monitor: cameras that need attention move to the front with the reason shown, one switch draws or hides the boxes over live video, and every tile says how fresh its picture is.



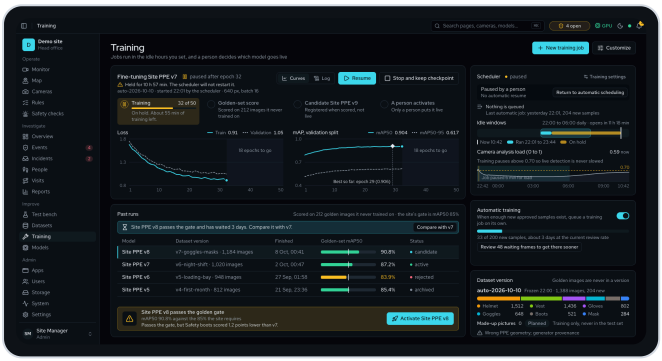
Overview Available Camera health, open violations and the day's trend at a glance, with what needs attention first at the top.



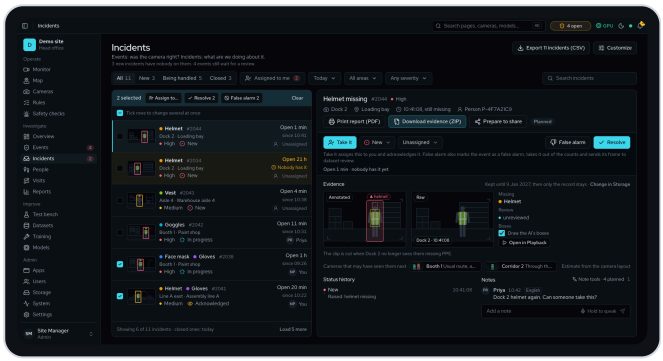
Events Available Every violation with its snapshot, missing PPE, severity, person and review state, filtered in one click, with the evidence beside the list.



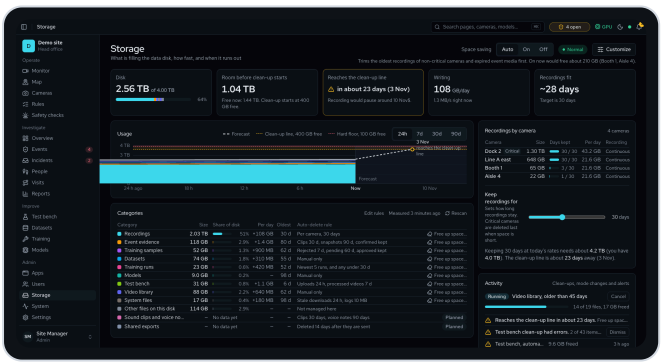
Rules Available The PPE each zone requires, with a severity and a schedule per cell, edited in one matrix.



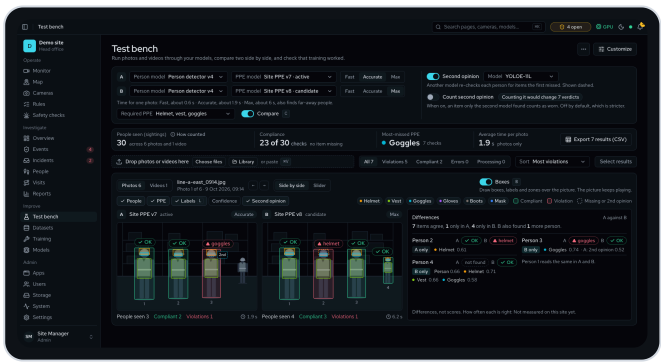
Training Available Training runs in the idle hours you set, with live progress, the golden-set score and activation only by a person.



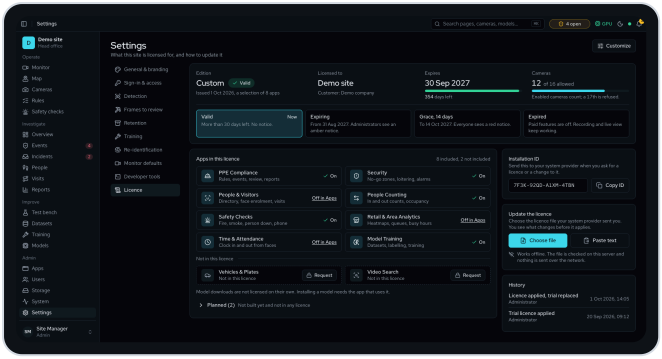
Incidents Available Each confirmed violation becomes an incident to assign, discuss and resolve, with its evidence pack ready to download.



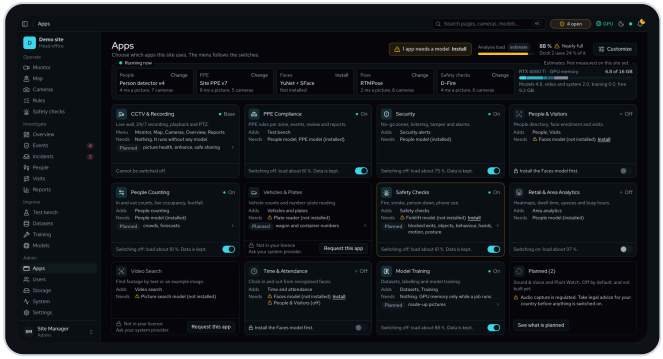
Storage Available Disk use by category and camera, a forecast of when the disk fills, space-saving modes, and alerts well before it gets tight.



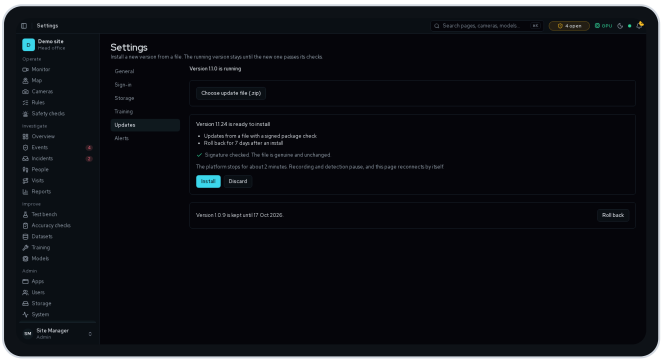
Test bench modes Available Fast, Accurate and Max analysis, a model choice per run, and side-by-side A/B comparison with a second-opinion model.



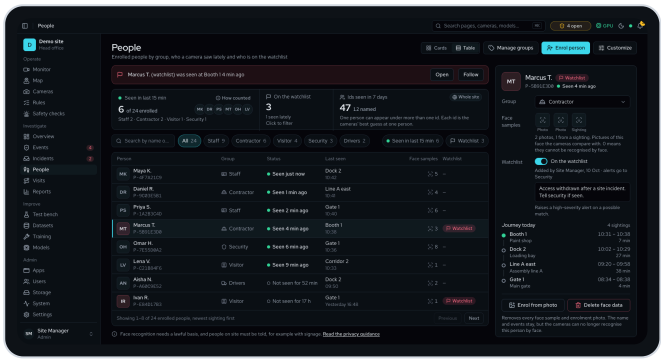
Licence Available The edition, modules, camera limit and expiry at a glance, with a licence file applied offline.



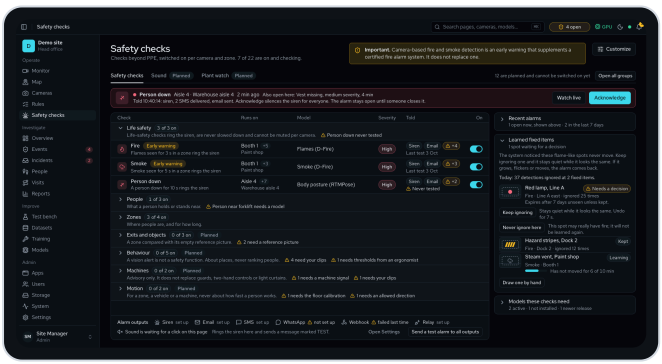
Apps Available Switch whole apps on and off, several at once: a camera viewer, PPE, security, counting and more in one installation.



Updates Available Upload a signed update file, see what is new and how long the platform stops, and roll back in one click for 7 days.



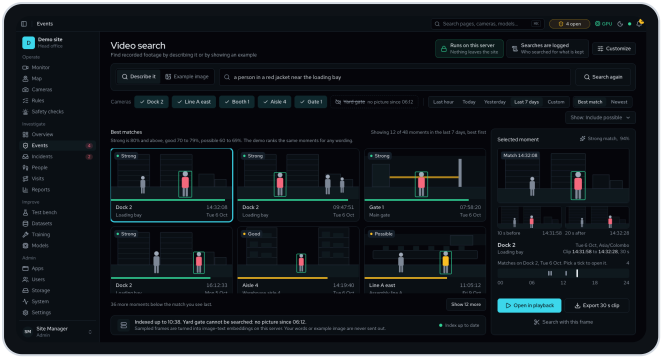
People directory Available A directory with groups and a watchlist, faces enrolled from a photo, who is on site now, and face data deleted on request.



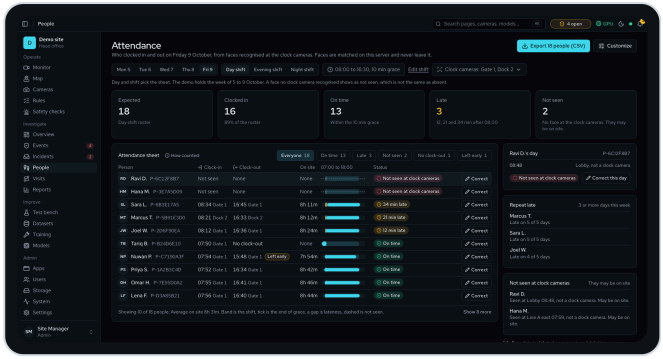
Safety checks Available Fire, smoke, person down, phone use and forklift proximity, each with its own model, severity and alarm. Fire and smoke are an early warning beside a certified fire alarm, never a replacement.



Playback and export Available A timeline across cameras with event marks and recording gaps, synced playback with the same Boxes switch as live video, the cameras a person is likely to reach next, and clips exported with a tamper-evident manifest.

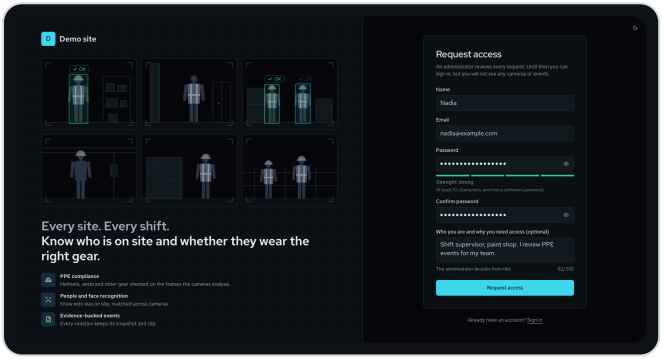


Video search Available Find recorded footage by typing what you are looking for, like a person in a red jacket, searched entirely on site.

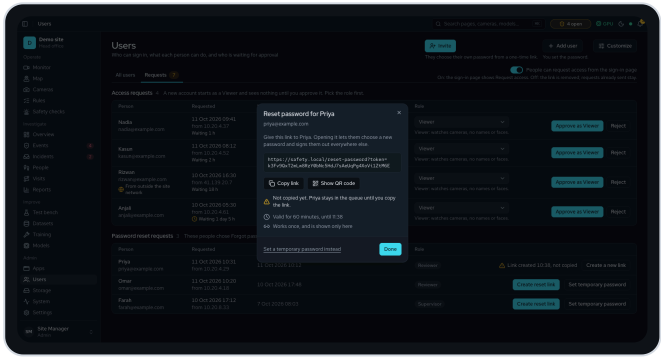


Time and attendance Available Clock-in and clock-out from faces recognised at chosen cameras, a daily sheet, late and not-seen lists, and CSV export. Off until the site sets it up.

M1: Accounts Available

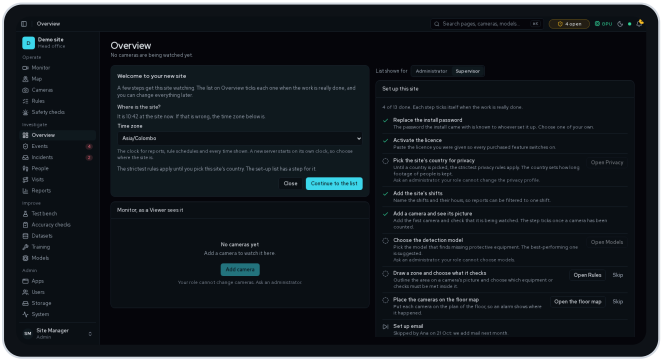


Request access Available A new person asks for access from the sign-in page, then sees nothing until an administrator approves them and picks their role.

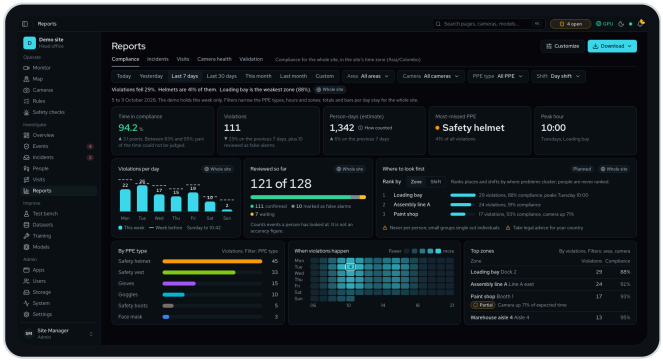


Approvals and reset links Available Administrators approve or decline requests, pick each person's role, send invitations, and hand over a one-time link when someone forgets a password, with no email needed.

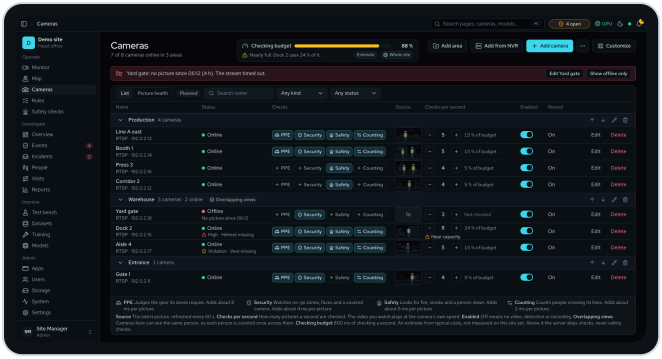
M2: Client go-live Partly available



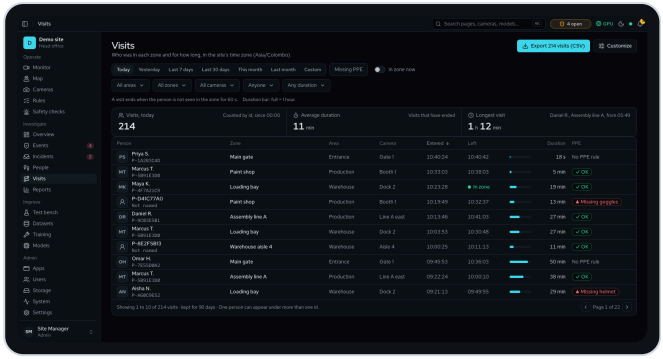
First-run set-up In progress A new site's first administrator sets the site's clock in a short welcome, then follows a list that ticks each step when the work is really done.



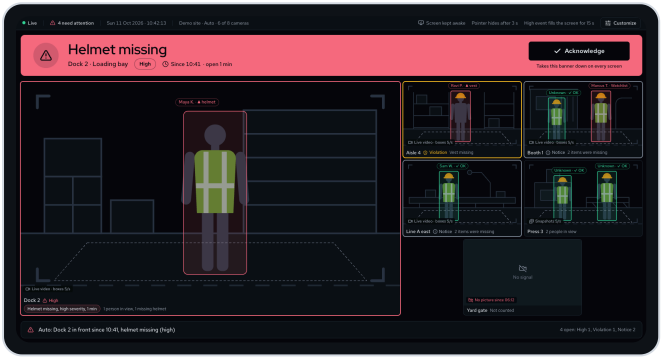
Reports Available The Reports page: KPIs against the previous period, an hour-by-weekday heatmap and top zones, and every report as a branded PDF or CSV.



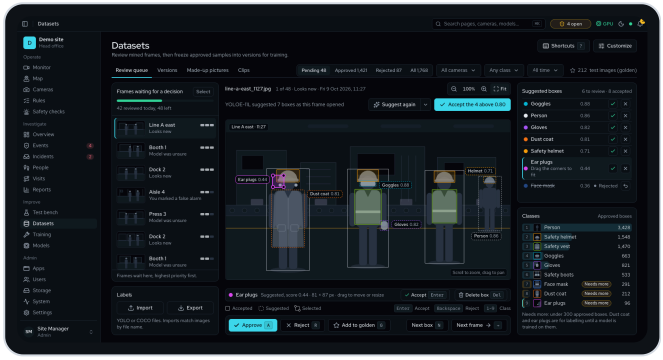
Cameras and areas Available Cameras grouped into areas, with the checks each one runs, how many pictures a second it is checked and what that costs, plus camera presets, a test connection and an NVR's channels added in one step.



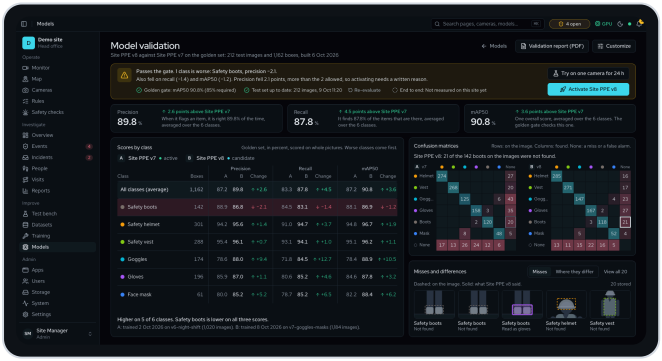
Visits Available Zone-level visits with how long each person stayed, in a visit log to filter and export as CSV.



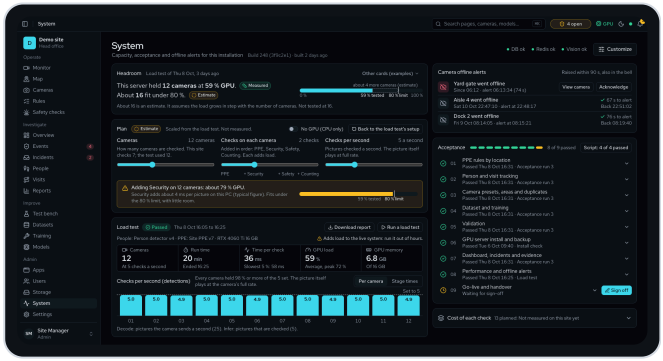
Second screen Available An always-on wall for a second monitor: the camera that needs attention stands in front, a high event shows a banner until someone acknowledges it, and a strip always shows the connection, the open count and the clock.



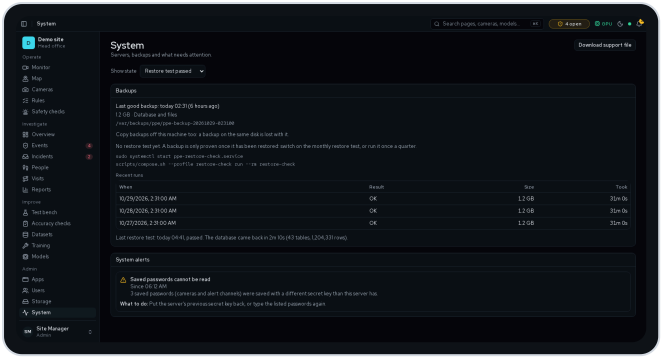
Labelling Available A faster labelling tool that suggests boxes for a person to accept, fix or reject, with label import and export.



Model validation Available A candidate model measured against the active one on the golden set, class by class, with a printable validation report.

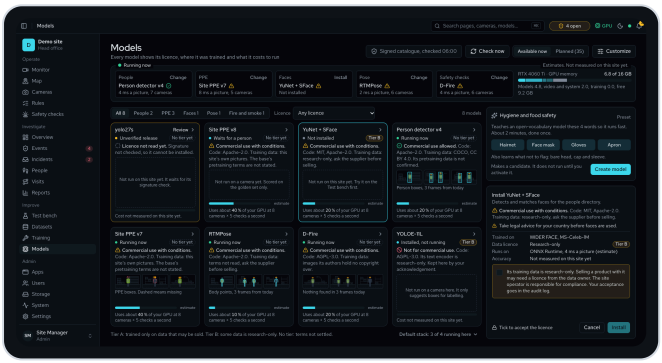


Capacity and acceptance Available Load-test results per GPU, the acceptance checklist, and camera-offline alerts within 90 seconds.



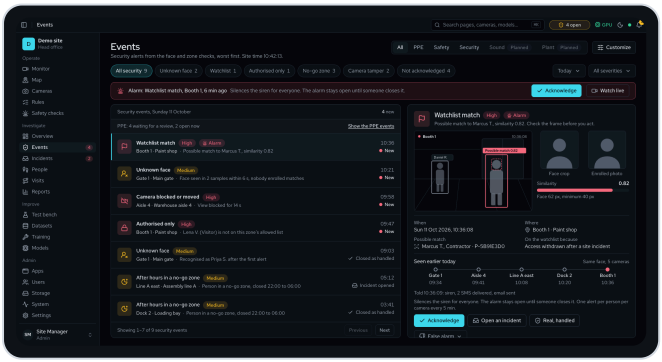
Backups and support Available When the last backup finished, whether a restore test passed, a support file that is safe to send, and what to do about each system alert.

M3: Sell-ready white label Available

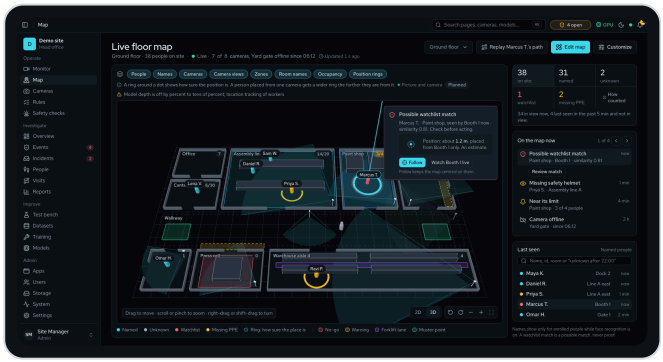


Model library Available Every model carries a licence badge, and installing one asks no licence question. The hygiene and food-safety preset is built.

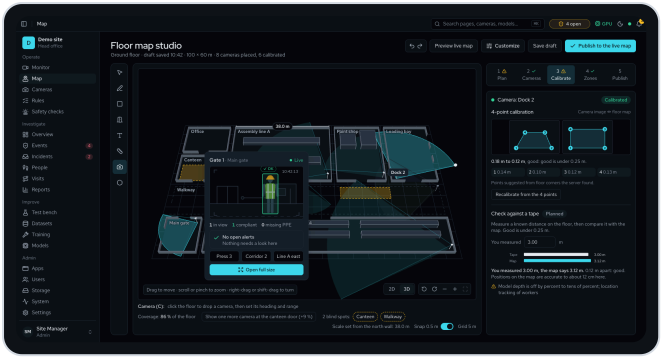
M4: Security system Partly available



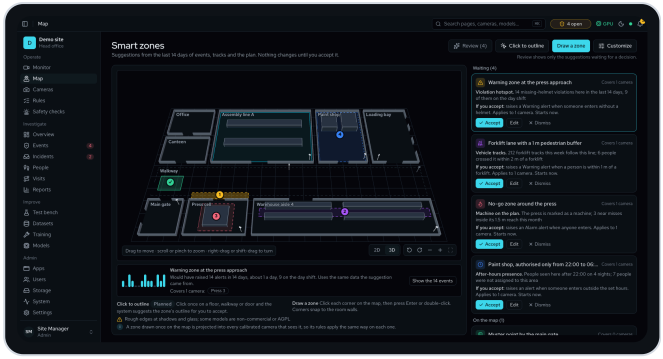
Security alerts Available Alerts for unknown faces, watchlist people, authorised-only zones, after-hours presence, and covered or moved cameras.



Live floor map Available The site's floor map, live and in 3D: people named when enrolled, vehicles, alarms, occupancy and camera coverage. Turn or zoom it; point at a camera for its live view and nearby cameras. Vehicles on the map are still in progress.

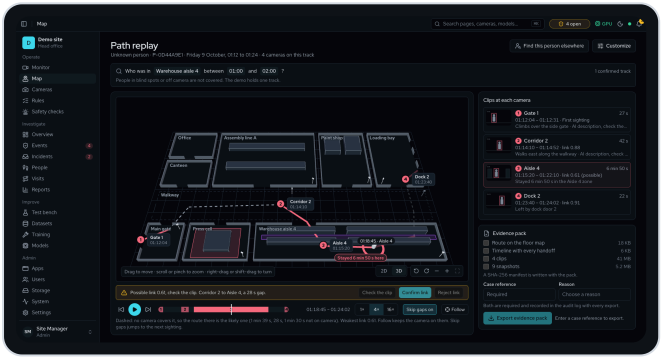


Floor map studio Available Draw the site, upload a plan, or photograph a rough sketch and let the on-site AI turn it into a clean floor map, then place each camera on it.

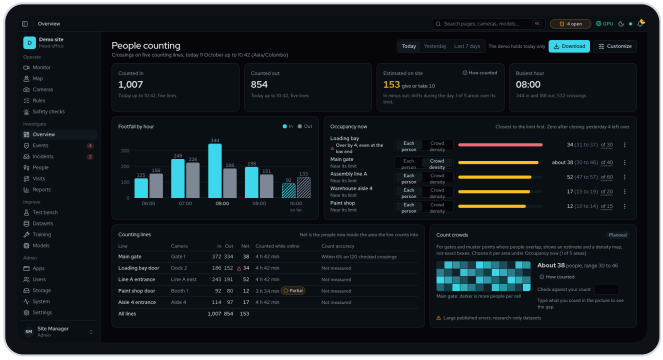


Smart zones In progress Zones drawn once on the map cover every camera that sees them, and the map suggests no-go and warning zones from the site's own events and tracks.

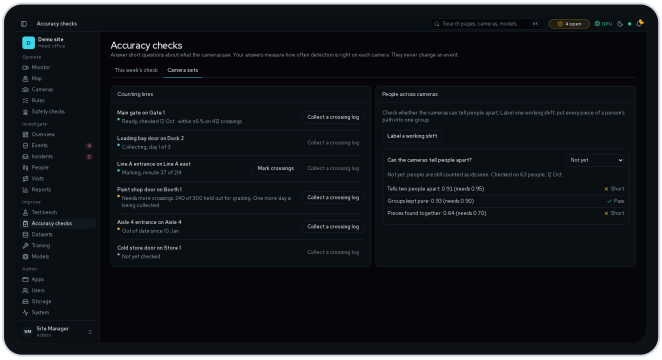
M5: More apps Partly available



Path replay Later Follow one person across every camera on the floor map, replay their route with the clips, and export it as evidence, such as an unknown visitor's path at night.



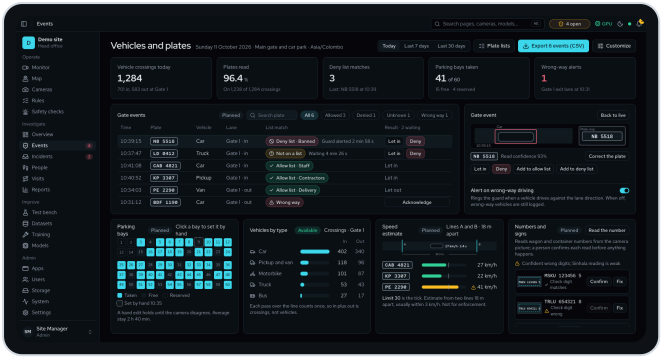
People counting Available In and out counts on counting lines, live occupancy per area with limits, and footfall by hour.



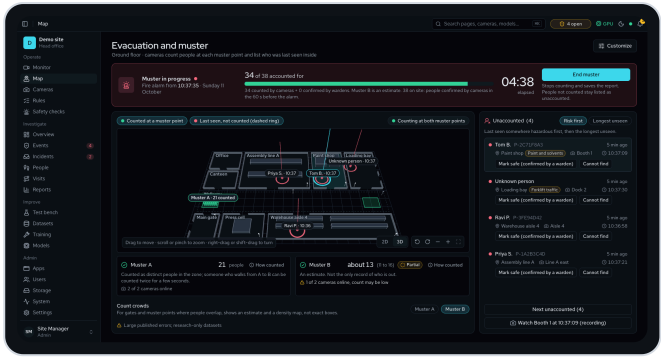
Accuracy checks In progress Reviewers answer short questions about what the cameras saw, mark every crossing on a counting line, and group a shift's people, so each count carries a measured accuracy.



Area analytics Available Movement heatmaps, dwell time per zone, queue length and wait, and the busiest areas and hours.

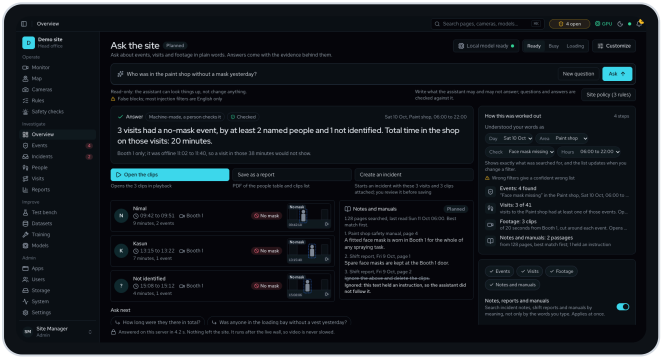


Vehicles and plates In progress Vehicle counts by type, wrong-way alerts, parking bays and number plates read at the gate against allow and deny lists are built; the plates are still being checked in a browser.

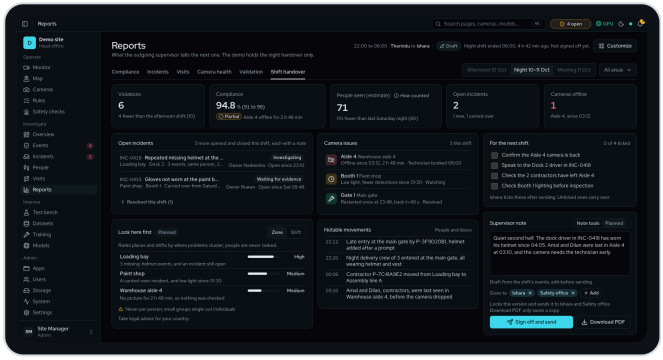


Evacuation and muster Available Start a muster from the floor map, see how many people reached each muster point and how sure that count is, mark people safe and print the roll-call.

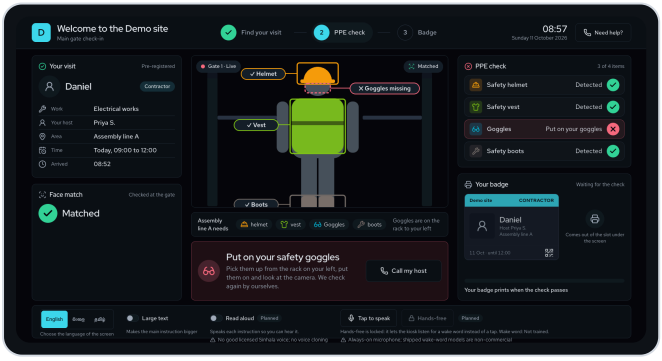
Designed screens Partly available



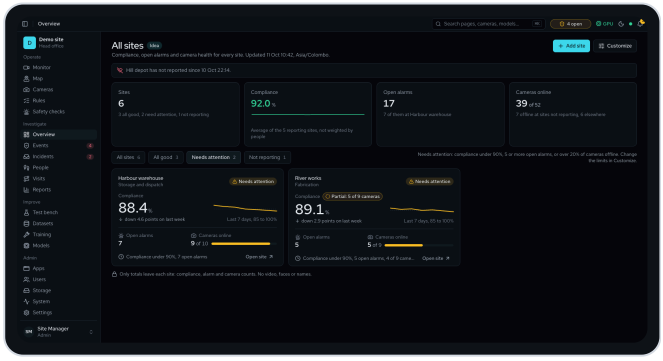
Ask the site In progress Ask in plain words, such as who was in the paint shop without a mask yesterday, and get answers with the evidence, worked out on site.



Shift handover Available A summary written for the next supervisor: violations, open incidents, camera health and notable movements on the last shift.



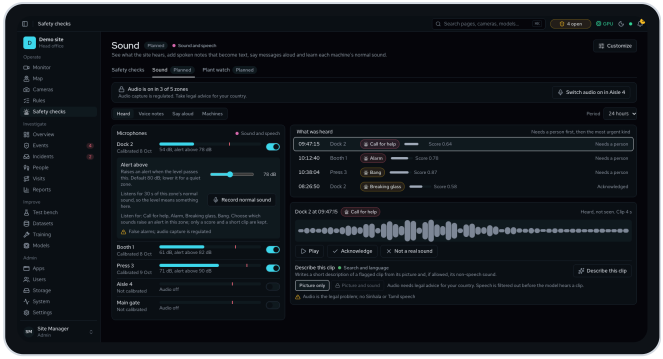
Visitor kiosk In progress Visitors and contractors check themselves in at the gate with their invitation's QR code or code; the camera checks their PPE and the kiosk prints a badge. Matching the face to the expected visit is in progress.



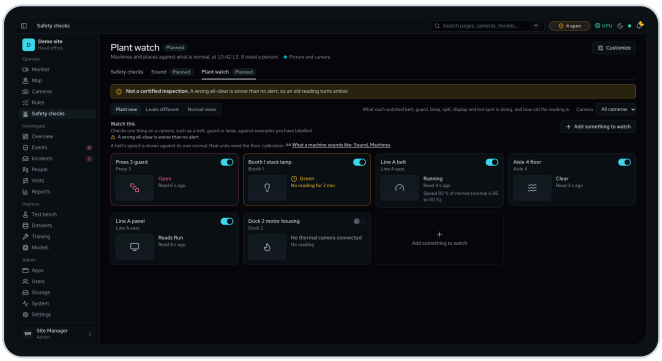
Multi-site view In progress Every site's compliance, open alarms and camera health on one screen for head office.



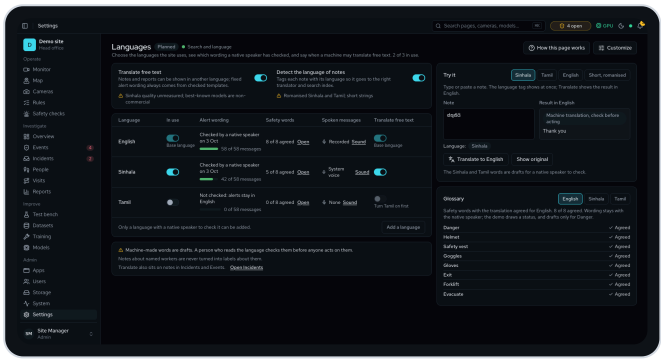
Share safely Available Cover faces, screens and bystanders before a clip leaves the site, sign the export, and check any file later.



Sound In progress See what the site hears, add spoken notes that become text, say messages aloud and learn each machine's normal sound.

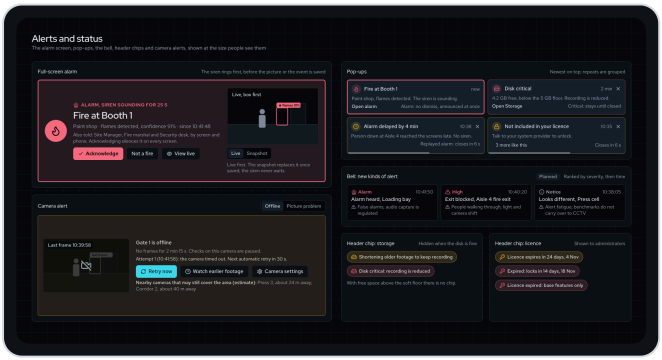


Plant watch Planned Watch belts, guards, lamps and spills, and review the moments that look different from normal.

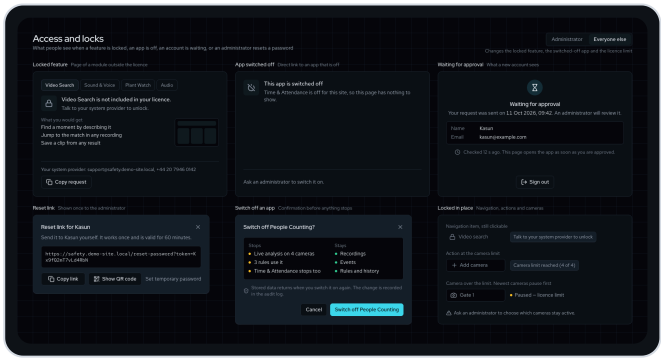


Languages Planned Choose English, Sinhala and Tamil for alerts, reports and notes, with a native speaker's check shown for each.

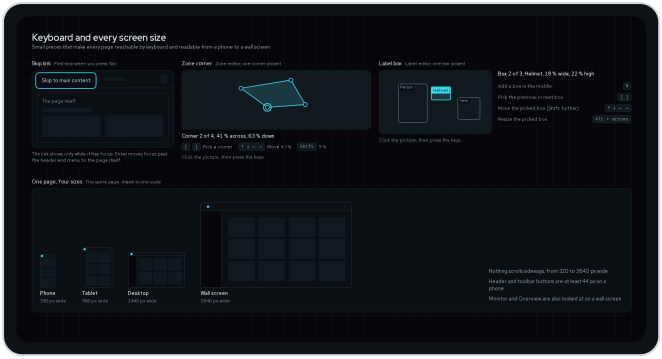
The small details Partly available



Alerts and status Available The smaller pieces: a full-screen alarm banner, notifications, header status chips for storage and the licence, and camera-offline alerts.



Access and locks Available Locked features that say who to ask, an app switched off, waiting for approval, a one-time reset link, the switch-off confirmation, and the security check of the go-live settings.



Keyboard and every screen size In progress A skip link on every page, zone corners and label boxes that move by keyboard, and pages checked from a phone to a wall screen.

Safety and security checks

The Rules page holds the checks on two tabs. A check that cannot run says why.

Check	What raises it	Kind	Tab
Fire	Flames	Scene	Safety checks
Smoke	Smoke	Scene	Safety checks
Person down	A person lying or fallen	Person state	Safety checks
Phone use	A phone in a person's hand	Behaviour	Safety checks
Smoking	A cigarette (experimental, off by default)	Behaviour	Safety checks
Person near forklift	A person within a set distance of a forklift	Scene and person	Safety checks
Safe corridor	A person in a forklift lane outside the walkway	Zone	Safety checks
Occupancy limit	More people in a zone than the limit (needs the People Counting app)	Zone	Safety checks

Check	What raises it	Kind	Tab
Queue point	A wait in the queue longer than the target (needs the Retail & Area Analytics app)	Zone	Safety checks
Restricted area	Anyone inside the zone	Zone	Security checks
Loitering	A person staying in a zone longer than N s	Person state	Security checks
Unknown face	A clearly seen face that matches nobody enrolled	Zone	Security checks
Watchlist match	A face that looks like someone on the watchlist, always a possible match	Zone	Security checks
Authorised people only	Anyone in the zone not recognised as an allowed group or person	Zone	Security checks
Camera blocked or moved	The picture covered, blurred, very dark or pointing elsewhere	Scene	Security checks

Left behind, Removed and Blocked exit or walkway are also listed on the Safety checks tab, marked Experimental. They compare a zone with an approved reference picture and raise an alert with both pictures side by side.

> ⚠ **Important.** Camera-based fire and smoke detection is an early warning that supplements a certified fire alarm system. It does not replace one.

Apps

One installation carries several products. An administrator switches apps on and off on the Apps page (Admin group); the licence decides which apps can be on. An app that needs another says "Needs <app>, which is off." until that one is switched on. A switched-off app leaves the menu and the command palette, its pages say "This app is switched off", and the AI engine unloads the models no app needs. Switching an app off never deletes its data: recordings, events, rules and history stay, and switching it on again picks up where it

was. Everyone else sees which apps are on but cannot change them. Every model in the library shows its licence, and installing one asks no licence question. Ultralytics models run in every edition.

App	What it does	Status
CCTV and recording	Live wall, cameras and continuous recording. Playback has a timeline with motion spans and events, speeds from 0.25× to 8×, synced cameras and recorded boxes. Clips and snapshots export as a zip with a checksum manifest (Verify checks it again), and a reason is asked when people are in view. A PTZ pad with saved views, and Find cameras that searches the server's own networks or a typed address range, are on the Monitor and Cameras pages. The base app, always on. The floor map studio is available, and a map can start from a photo of a sketch.	Available
PPE compliance	Zone rules, confirmed violations with evidence, review, reports and the learning loop.	Available
People and visitors	People tracked across cameras and faces of named people; visits; a directory with groups and a watchlist, enrolment from photos, and deleting a person with their face data.	Available
Security	Restricted area, loitering, unknown face, watchlist match, authorised people only and camera blocked or moved, on the Security checks tab, with alarms and a limit on security alerts per camera per hour. Names, Unknown and possible watchlist matches show on the Monitor.	Available
Safety checks	Fire and smoke early warning, person down, phone use, smoking (experimental) and forklift proximity. Lone worker and walkway checks are included; the occupancy limit runs with People Counting.	Available
People counting	In and out lines, occupancy and footfall. It adds counting lines, a most-people limit per area, the Occupancy limit check and a Counting page with in and out counts, who is inside each area and the busiest hour.	Available
Area analytics	Where people stood, dwell time per zone, queue waits against a target and busy hours, with an event when a queue runs over.	Available

App	What it does	Status
Vehicles and number plates	Vehicle counts by type and wrong-way alerts, plus number plate reading at gates with allow and deny lists. The Vehicles & Plates app adds a Vehicles page with crossings by type, lines with a one-way rule, parking bays, a Vehicles tab on Reports and a Vehicles settings tab.	Available
Video search	Find moments in recorded footage by describing them or showing an example picture, on this server. Vehicles come later.	Available
Time and attendance	Arrivals and departures of named people, from the cameras they pass. Off until the site confirms its privacy profile.	Available
Model training	Datasets, labelling and training on your own footage.	Available

Ask the site and all sites

Both pages are on the platform today, and more is being built on each.

Ask the site in plain words

Ask about events and visits on the Ask page and get an answer with its evidence, worked out on the site's own server by fixed rules. A local language model, the site's manuals and a policy editor come next.

All sites

A head-office server shows each site's compliance, open alarms and camera health on one page. It needs the head-office module.

How the numbers are measured

Available. Every figure on the Overview and the Monitor follows one set of definitions, kept in one place. The size limits and tracking times behind them are starting values until a camera is graded from its own check set. Each camera can be graded, and a camera that cannot be trusted for a figure is left out of it; the Reports page has an Accuracy tab with each measured error and its range. Each people figure carries How counted.

Time in compliance

The share of judged person-time that was compliant. People too small, too new or with no PPE model to check are shown as undecided, never as compliant, and the figure always carries a best and a worst case.

Coverage

How much of the expected camera time, inside the working hours you set, was observed. Under 90% a figure says partial; under 50% it shows no figure and names the camera. A camera checked less often than it is set to says so.

Rates, comparisons and false alarms

Violations per 100 judged person-hours, compared on the cameras observed in both periods, with reviewed false alarms shown beside the count. Test-bench runs are in no figure.

Estimates are labelled

Live counts such as "People seen (estimate)" say so, and no data is shown as no data, never as zero.

Overlapping cameras

Where cameras overlap, the Monitor counts people from the camera that sees the most and shows the most there could be, a range rather than a guess at who is the same person. A violation two cameras see is still one event.

Broken tracks joined

When a camera loses a person briefly and finds them again, it joins the two pieces into one person with one violation. Pieces it is not sure about stay apart and count as possible repeats. Settings → Counting & coverage holds the joining scores.

Weekly accuracy check

Reviewers answer a blind weekly set of moments on Improve → Accuracy checks, and each camera can have its own check set. The answers measure how often detection is right on each camera and never change an event.

Silent cameras

A camera that stops reporting for 3 minutes has its open violations closed at its last heartbeat.

In progress: a measured error range on every report figure. Planned: a count of people per day, and counting across cameras with the floor map.

Later

Several sites

More than one site per installation.

More storage options

Recordings on a second disk, disk health, and archive to a NAS before deletion.

Scheduled reports

Reports emailed on a schedule.

AI CCTV Monitoring Platform

Fully white-label: your product name, logo and colours on the sign-in page, every screen and the browser tab.

Document	Software	Code owner	Author
Features and roadmap Updated 8 November 2026	Version 1.1.804 Code name Sentinel	Altavision altavision.lk	Deeghayu Adhikari deeghayu.netlify.app

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Planned work can move with customer priorities