PRODUCT CATALOGUE

SynOne Vision

ON-PREMISE • THE MODEL RUNS ON AN ON-SITE GPU

VLM video recognition. A vision-language model reads existing CCTV and alerts on trolleys and cargo in lifts and on the guard desk.

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SynOne Vision — VLM Video Recognition

Vision-Language Model • Existing Cameras • On-premise GPU

Conventional video analytics draws a box around “a person”. SynOne Vision uses a vision-language model that understands a scene and answers in words, so it judges situations: how many people are in the lift, whether there is a trolley, whether it is loaded, whether it belongs in this lift — or whether the guard has been away from the desk too long. It uses the cameras you already have, and the model runs on a GPU on site, with no per-call cloud API.

WHO IT IS FOR

Buildings that separate passenger and goods lifts

Office | Retail | Industrial

Platform and hand trolleys or bulky cargo in a passenger lift raise an alert, while cleaning carts and similar can be allowed; a goods lift carrying people without a trolley can be flagged too.

Committees and property firms that need eyes on the guard desk

A guard away from the desk beyond a set time, or apparently asleep during night hours beyond a set time, each raises an alert with a snapshot; looking down at a phone does not count as sleeping.

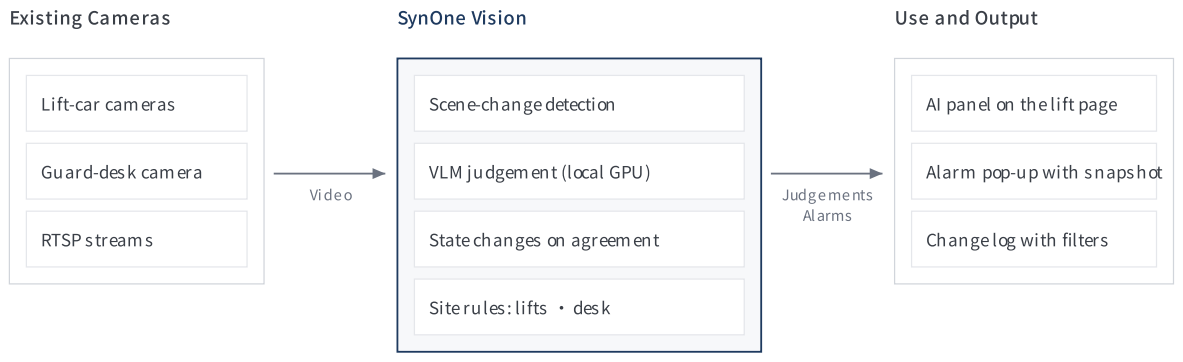
Sites with CCTV that do not want to buy AI cameras

It reads the RTSP streams of your existing IP cameras; add one machine with a GPU, and the rules are tuned to the site.

Situations and alarm rules are set and tuned by us to each site’s needs. Cameras must see the whole lift car or desk. The production configuration is a Windows machine with an 8 GB NVIDIA GPU, with the model using about 5 GB of video memory; check other hardware with us first.

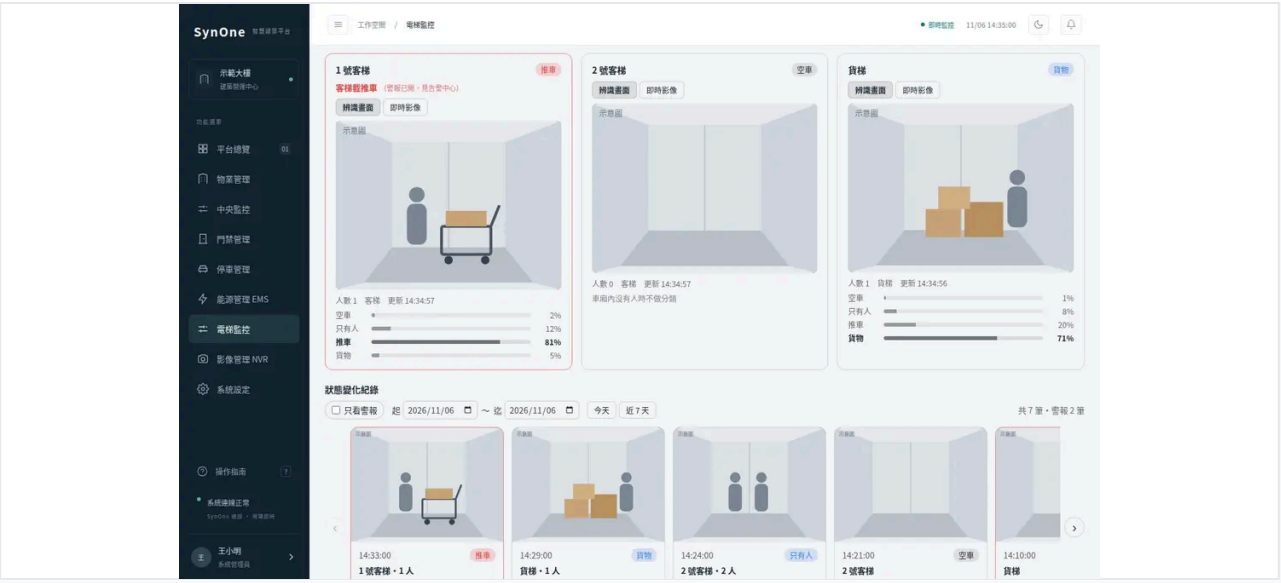
SYSTEM ARCHITECTURE

A cheap frame comparison runs first, and only changed scenes go to the model; the state changes only when consecutive answers agree, so a single bad frame does not trigger anything. Alerting events go to the SynOne alarm centre.



The model runs on the site server’s GPU and no video goes to any cloud AI service; snapshots are visible only to platform accounts with camera right

PRODUCT SCREENS



AI panel: each lift shows its judgement, headcount and the weight of each class; a trolley in a passenger lift is outlined in red and sent to the alarm centre, with a change log below filterable by date or alarms only. Car images are illustrations. Note: demo data.

CORE FEATURES

Situations, not just boxes

The model reports how many people are in the car, whether there is a trolley and what kind (platform, two-wheel, folding cart, cleaning cart…), whether it is loaded, whether there is bulky cargo, plus a one-line description — ignoring people outside the door, in the lobby or in mirror reflections.

No change, no question

Thumbnails are compared first and the model is asked only when something changed — at most every 2 seconds per lift, with periodic re-checks even without change. The GPU idles most of the time.

Majority vote against one-off errors

State changes only when most of several consecutive answers agree, and repeat detections in the same lift within 30 minutes merge into one alarm.

Snapshots and an audit trail

Alarms pop up in the SynOne alarm centre with a sound, snapshot and AI description, and “acknowledge” is recorded; the change log filters by date or alarms only.

SPECIFICATIONS

Vision uses the SynOne platform’s camera streams and alarm centre; situations can be added per site.

Model

WHAT IT COVERS

Open-source vision-language model (Qwen3-VL 4B) on an on-site GPU

NOTES

No cloud API fees; no video sent to cloud AI.

Lift cars

WHAT IT COVERS

People, trolley and type, loaded or not, bulky cargo; alerts for trolleys in passenger lifts and goods lifts used without one

NOTES

Each camera is set as passenger or goods lift; allowed trolley types are configurable.

Guard desk

WHAT IT COVERS

Away from the desk beyond a set time; apparent sleeping in night hours beyond a set time

NOTES

Crop area, minutes and night hours are configurable; tell guards before enabling it.

Output

WHAT IT COVERS

AI panel on the lift page (recognition view or live video, red outline), alarm centre, change log with snapshots

NOTES

Recognition, lift alarms and desk alarms have separate switches; alarms are off by default.

Production configuration

WHAT IT COVERS

Windows machine, 8 GB NVIDIA GPU; the model uses about 5 GB of video memory

NOTES

Under about a second per frame; with many cameras, frames queue in turn.

FAQ

Do we need AI cameras?

No. It reads the RTSP streams of existing IP cameras, provided they see the whole lift car or desk. You also need a machine with an NVIDIA GPU to run the model.

Is video uploaded to the cloud?

No video goes to any cloud AI service — the model runs on the site’s own GPU. Alarm snapshots are stored on the site server and visible only to platform accounts with camera rights.

Can it recognise other situations?

A vision-language model is told in words what to judge, so a new situation does not require retraining. Lifts and the guard desk are in production today; tell us what else you need and we will assess it, set it up and test it on site before it goes live.

How accurate is it?

It depends on camera angle, lighting and the situation, so we do not quote a universal percentage. On rollout, recognition runs with alarms off while every situation is tested on site, and alarms are enabled only once the judgements meet the need.

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