

INDUSTRY SOLUTION

Ports, Harbours and Waterfronts

Fewer breaches, fewer patrols, faster gates: restricted water and quays watched around the clock from the port's existing cameras, with the control room seeing what needs attention first.

Who it is for

- Seaports, container and cargo terminals
- Fishing harbours, jetties and passenger ferry terminals
- River and dam waterfronts, water intakes, naval and coastal sites

What you gain

- Unauthorised boats spotted before they reach a berth or intake
- Long waterfronts covered without extra patrols
- Every truck and container through the gate on record, without manual entry
- Safer quays: PPE, falls and unsafe entry flagged

WHAT IT DOES

Boats in restricted water

An alert with a snapshot when a boat or ship enters a restricted water zone - berths, jetties, intakes or restricted coastline - including small fibreglass and rubber boats.

Boats staying and boat traffic

Alerts when a boat stays near a jetty or intake longer than allowed; boats counted in and out at a harbour mouth or channel, by hour and day.

Quays and dock areas

Person and vehicle intrusion at quay edges, berths, gangways and stores, by schedule; loitering near cargo and warehouses.

Gate: trucks and containers

Container numbers and size / type read at the gate lane, check-digit verified (ISO 6346), with the truck's number plate, time on site and hold-list alerts by container or owner code.

Dock worker safety

Helmet and vest checks, fall alerts and restricted zones around cranes and stacking areas - confirmed on the port's own footage during the Proof of Concept.

Fire, terminals and control room

Fire and smoke early warning in warehouses; crowding and unattended bags at passenger terminals; an alerts-first video wall with escalation.

Where the cameras go

Area	What is watched	Licences
Berths, jetties and intakes	Boats or ships entering restricted water; boats staying too long	Core
Harbour mouth or channel	Boats counted in and out, by hour and day	Core
Quays, gangways and stacking areas	Person and vehicle intrusion by schedule; helmet and vest; falls; restricted zones around cranes	Core, PPE
Gate lanes	Container numbers and size / type, check-digit verified; the truck's number plate; hold-list alerts	Core, ANPR, Container Code Recognition
Warehouses and CFS sheds	Flames and smoke; forklift near misses; blocked aisles and fire exits	Core, Fire and Smoke, Forklift and Warehouse Safety
Passenger terminals	Crowding and unattended bags	Core

What you see every day

- Every truck and container through the gate, with container number, plate and time on site
- Hold-list matches by container or owner code, as they happen
- Boat alerts with a snapshot, and boat counts by hour and day
- Intrusion and safety alerts by area and shift
- An alerts-first video wall with escalation for the port control room

What we need on site

- Gate cameras on each side of the lane, with container characters about 25 pixels tall or more and no strong back-light; lighting or IR for night
- A lane camera framed on the number plate
- Waterfront cameras with enough pixels on distant boats; light or IR on the water at night
- For PPE, people at least about 120 pixels tall in the picture
- A server sized by us for the cameras and analytics chosen, confirmed during the Proof of Concept

Licences · one-time or by subscription

Core licence

ANPR (gate lane cameras)

Container Code Recognition

PPE Compliance

Fire and Smoke Early Warning

Forklift and Warehouse Safety

Container code reading and forklift safety (port warehouses and CFS sheds - not reach stackers or straddle carriers) are commissioned after a validation on the port's own cameras. Boats are detected as boats or ships - not their type, name or registration; distant boats need enough pixels on the camera and night cover needs light or IR on the water. On request, as custom analytics: person in the water and vessel name reading. Runs on the Client's premises on standard IP cameras (RTSP / ONVIF); alerts reach the web and mobile app, WhatsApp, SMS, e-mail, Telegram or a siren.

Let us survey your site

A Proof of Concept on up to four cameras for 30 days, on your own footage.

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