

INDUSTRY SOLUTION

Water and Wastewater Treatment

Fewer site visits and faster response to pump trips: treatment plants, pumping stations and reservoirs kept secure and their instruments read - including unmanned sites, watched remotely.

Who it is for

- Water treatment plants and reservoirs
- Sewage and effluent treatment plants (STP / ETP)
- Pumping stations and intake works, often unmanned

What you gain

- Pump running hours and trips on record without site visits
- Unmanned sites watched around the clock
- Unsafe entry to chemical stores and tank edges flagged
- A record of every tanker and visitor

WHAT IT DOES

Pumps and instruments

Pump-panel lamps read on camera - running hours per pump and shift, an alert on a trip - and analogue pressure gauges with alarm ranges.

Perimeter and unmanned sites

Intrusion and after-hours alerts at reservoirs, intakes and remote pumping stations, with snapshots to the duty officer's phone or the Remote Monitoring Service.

Restricted and hazardous areas

Alerts on entry into chlorine and chemical stores, dosing rooms and tank or clarifier edges, by schedule.

Person down

An alert when someone falls and stays down - important in chemical areas and lone-worker rounds.

Tankers and deliveries

Number-plate register for chemical, sludge and water tankers with time on site and overstay alerts.

Equipment and tamper

Alerts when pumps, panels or cable are removed or moved, and when a camera is covered or turned away.

Where the cameras go

Area	What is watched	Licences
Pump houses and panel rooms	Pump-panel lamps: running hours per pump and shift, an alert on a trip; pressure gauges with alarm ranges	Core, Machine and Gauge
Chlorine and chemical stores, dosing rooms	Entry by schedule; helmet and vest; a person who falls and stays down	Core, PPE
Tank and clarifier edges	Unsafe entry by schedule; a person down	Core
Reservoirs, intakes and remote pumping stations	Intrusion and after-hours presence; a camera covered or turned away	Core, Remote Monitoring Service
Gate and tanker bay	Chemical, sludge and water tankers with time on site and overstay alerts	Core, ANPR
Stores and equipment yards	Pumps, panels or cable removed or moved	Core

What you see every day

- Running hours per pump and shift, and every trip with the time it happened
- Gauge readings with out-of-range alerts
- Intrusion and after-hours alerts from every site on one screen
- Tanker register with time on site
- For unmanned sites: alerts checked by the Remote Monitoring Service, with a monthly report

What we need on site

- Pump-panel lamps visible to a camera, about 10 pixels per lamp or more; gauges framed with their scale
- Cameras with IR or lighting for night at reservoirs and intakes
- A network link from each remote site to the server, about 4-8 Mbps per camera stream
- A lane camera framed on the number plate at the tanker gate
- 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

Machine and Gauge Monitoring

PPE Compliance

ANPR (gate lane cameras)

Remote Monitoring Service

Also available: fire and smoke early warning. On request, as custom analytics: water level against a level scale, foam and floating debris at intakes and screens, and masks and respirators in chemical areas. 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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