



RAPID-DEPLOY AI SURVEILLANCE

Portable AI Surveillance System

An all-in-one rugged case — recorder, AI analytics and networking in one box. Plug into mains power, connect PoE cameras and it's live: on-board AI detection, remote view over 4G, and minutes-fast set-up for temporary, mobile and confined worksites. Developed in collaboration with EMSD.



Plug-in & live

All-in-one case — set up in minutes, no fixed install



On-board AI

PPE & person-down detection with event playback



Remote over 4G

Live view & playback on PC and mobile, anywhere



Single-cable PoE

Power + data on one LAN run (≤ 80 m)

BUILT FOR

Temporary worksites

MEP maintenance

Confined spaces

Mobile monitoring

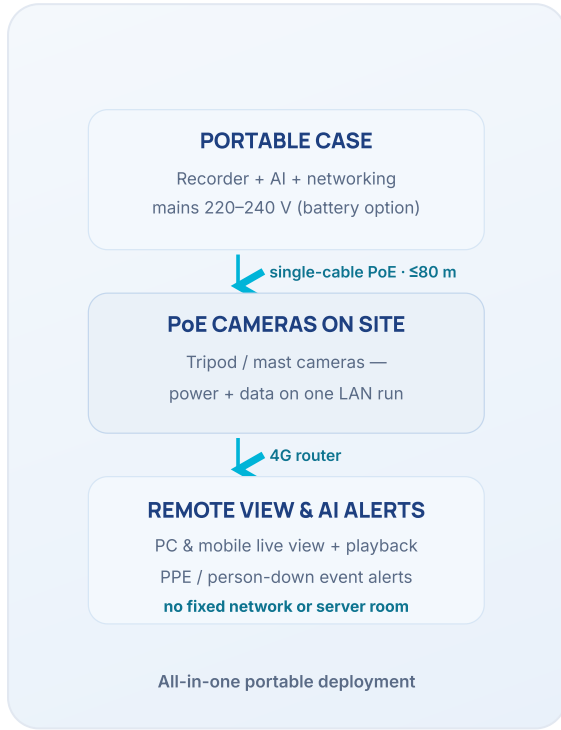
Government works

Short-term projects

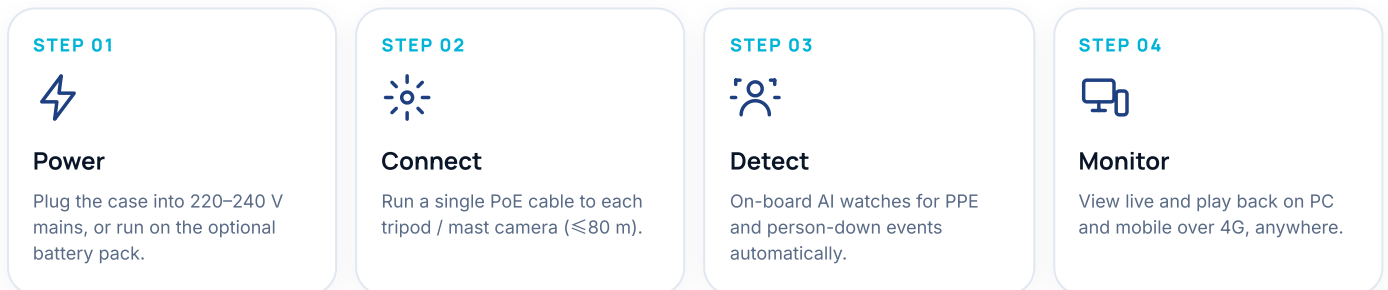
— HOW IT WORKS

One case in, a monitored site out.

The whole system — recorder, AI analytics and networking — lives in one rugged case. Power it from mains (or an optional battery pack), run a single PoE cable to each on-site camera, and the case backhauls over 4G so the team can watch live and receive AI alerts from anywhere. No fixed cabling, no server room.



- 1 Portable all-in-one case**
Recorder, AI analytics and networking integrated in one rugged case — powered from mains (220–240 V) or an optional custom battery pack.
- 2 Single-cable PoE cameras**
Each camera takes power and data on one LAN run (≤80 m recommended), so on-site cabling stays simple and fast.
- 3 On-board AI detection**
The case analyses video on site — e.g. PPE and person-down events — and flags incidents for review.
- 4 4G remote access**
A built-in 4G router puts live view and playback on PC and mobile, with no fixed broadband needed on site.
- 5 Rapid, repeatable set-up**
Roll in, power up, connect cameras — operational in minutes and just as quick to relocate to the next site.



— WHERE IT'S USED



A whole surveillance system in one case.

All-in-one portable case



Rugged, self-contained, field-ready

Recorder, AI analytics, PoE switching and a 4G router are integrated in one protective case — carry it in, power up and monitor, with no rack, server room or fixed cabling.



All-in-one case

Recorder + AI + network in one



On-board AI

Edge analytics on site



PPE detection

Flags missing helmet / gear



Person-down alert

Detects falls / collapse



Single-cable PoE

Power + data, ≤ 80 m run



4G remote

PC & mobile live / playback



Mains or battery

220–240 V · custom battery option



Event search

AI-event review & playback

WHAT'S IN THE CASE



Recorder + AI

- On-board recording with AI video analytics
- PPE and person-down event detection
- AI-event search, review and playback
- Channels & storage configurable per project



Site cameras

- Tripod / telescopic-mast mounting for fast set-up
- Single-cable PoE — power + data on one LAN
- ≤ 80 m cable run recommended per camera
- Camera model selected to suit the scene

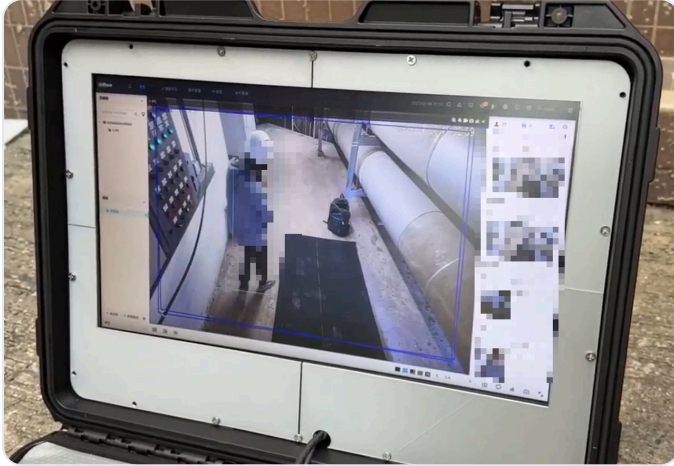


Power & network

- Mains 220–240 V, plug-and-play
- Optional custom battery pack (EMSD)
- Built-in 4G router for remote access
- PC & mobile client — live view + playback

Surveillance where fixed systems can't go.

Temporary works, plant rooms and confined spaces rarely justify a fixed CCTV install — and often can't get one in time. This **all-in-one portable case** stands a full AI-monitored site up in minutes: a tripod / mast camera on site, the case running the recorder, AI and 4G — **developed in collaboration with EMSD** for real maintenance and works environments.



Open the case — live multi-camera AI view, on the spot.



Tripod / mast camera — deployed in a plant room in minutes.



Minutes to live

No trenching, fixed cabling or server room.



Fully relocatable

Pick up the case and redeploy to the next site.



AI on site

PPE and person-down events flagged automatically.



EMSD collaboration

Built for real works & maintenance environments.

The outcome

Evidential, AI-assisted monitoring at sites a fixed system can't reach — supplied, configured and commissioned end-to-end by New Forward.



Set up & commissioned by NF

How it's set up: position the camera(s) on tripod or mast, run a single PoE cable back to the case, power up (mains or battery) and insert the 4G SIM; the team then views live and reviews AI events on PC or mobile. Recorder channels, storage, camera selection, battery endurance and AI event types are configured per project.

Specification, supply & support.

Portable AI station

Form factor	All-in-one rugged protective case
Integrated	Recorder + AI analytics + PoE + 4G router
Power	AC 220-240 V, plug-and-play
Battery (option)	Custom battery pack (EMSD)
Camera link	Single-cable PoE (power + data)
Cable run	≤80 m per camera (recommended)
Remote access	Built-in 4G router · PC & mobile client
Deployment	Plug-and-play · mobile / temporary · relocatable

AI & configuration

AI detection	PPE · person-down (+ configurable events)
Review	AI-event search, live view & playback
Cameras	Tripod / telescopic mast · model per scene
Recorder channels	Configured per project
Storage	Configured per project
4G SIM	Provided by client
Collaboration	Developed with EMSD
Detailed specs	Confirmed per project & datasheet

TURNKEY SUPPLY & SUPPORT



Survey & configuration

Plan camera positions, AI events and power on site.



Deployment & commissioning

Set up the case & cameras, tune AI, verify remote view.



Support & relocation

Ongoing support and redeployment between sites.

Why New Forward Technology



Licensed & certified

HK Security Company Licence No. 2327 —
one-stop supply, install & maintain.



EMSD collaboration

Portable AI monitoring developed for real
works & maintenance use.



One-stop integration

Portable & fixed surveillance, AI, access
control & IoT.

Need eyes on a temporary or hard-to-reach site?

Request a site assessment or a tailored portable-AI configuration — New Forward handles supply, deployment, AI tuning and support end-to-end.

+852 2815 5056



New Forward Technology Limited · 新科科技有限公司

40/F, Monterey Plaza, 15 Chong Yip Street, Kwun Tong, Kowloon, HK · 觀塘創業街15號萬泰利廣場40樓

2815 5056 · 2618 5055 · 9405 8300

admin@newforward.net

www.newforwardtech.com

Dahua® is a trademark of Zhejiang Dahua Technology Co., Ltd. New Forward Technology Limited is an independent systems integrator; the recorder, cameras and AI components are supplied as third-party hardware. "EMSD" refers to the Electrical and Mechanical Services Department; the system was developed in collaboration with EMSD for works / maintenance use. Specifications (recorder channels, storage, camera model, battery endurance, AI event types) are configurable and confirmed per project, and are subject to change without notice; the 4G data SIM is provided by the client. © 2026 New Forward Technology Limited.