

FORTIX AI

AI CCTV for Construction Sites

The 2026 Buyer's Guide for HSE Managers, Project Directors, and Security Leads

2026 Edition

fortixai.com

Why AI CCTV, and why now

Plant theft, PPE non-compliance, and out-of-hours intrusion drive insurance premiums and programme delays. AI video analytics runs on temporary CCTV towers or fixed cameras, generating real-time alerts on the incidents that materially affect site safety and project risk.

Six use cases that pay back fastest

- **PPE compliance** at site entrances and active work zones.
- **Plant and tool theft** — out-of-hours detection to ARC and site manager.
- **Vehicle and pedestrian segregation** around excavators and reversing hotspots.
- **Perimeter and hoarding breach** monitoring.
- **Fire, smoke, and hot works** hazard alerts.
- **Man-down and lone worker** detection in cabins and remote areas.

Edge vs Cloud for construction

Edge is ideal on remote sites where uplink is 4G/5G — only alerts leave site, minimising SIM data. It's also fully redeployable when the project completes. **Cloud** gives main contractors portfolio visibility across every live project. Hybrid is the norm on national programmes.

12-point vendor evaluation checklist

- Works with existing IP cameras and temporary CCTV towers
- 4G/5G-ready Edge deployment for remote sites
- Sub-3 second alerts to site manager and ARC
- Redeployable licences across projects
- Configurable privacy zones for welfare areas
- Model accuracy validated on live UK construction footage
- Alert audit trail with video evidence
- CDM 2015 and HSE-aware use cases
- Integration with ARC platforms and access control
- UK-hosted with clear data flows
- Transparent per-camera or per-site pricing
- UK-based support with named CSM

ROI framing (illustrative)

Plant theft: even one avoided plant theft on a major project typically pays for AI CCTV across the entire programme. PPE compliance: reduced RIDDOR-reportable events and improved insurance renewals. Programme delays: fewer incidents means fewer stop-works and quicker handovers.

Sample multi-project rollout plan

- Week 1: pilot site chosen, temporary towers audited.
- Weeks 2-3: pilot live on PPE, perimeter, plant-theft models.
- Weeks 4-6: tune with site manager and HSE.
- Weeks 7-12: roll out to next 3-5 live projects.
- Ongoing: redeploy licences as projects complete and start.

Next steps

Book a 20-minute discovery call with Fortix AI. We'll review your live projects, propose a pilot site, and share a fixed-scope pilot quote within 48 hours. Visit fortixai.com/proposal or reply to the email that sent you this guide.