



SAFE CAM

Specification Sheet

Tripod-mounted Dual-Camera Site Recording Kit

The SAFEcam system is a portable, tripod-mounted, dual-camera recording system for roadworks and civil sites. Single-person deployable, no hydraulics. Continuous loop recording with removable media, remote access via Wi-Fi, and optional GPS tagging. Designed to reduce on-site human monitoring and provide evidentiary footage for incident review.

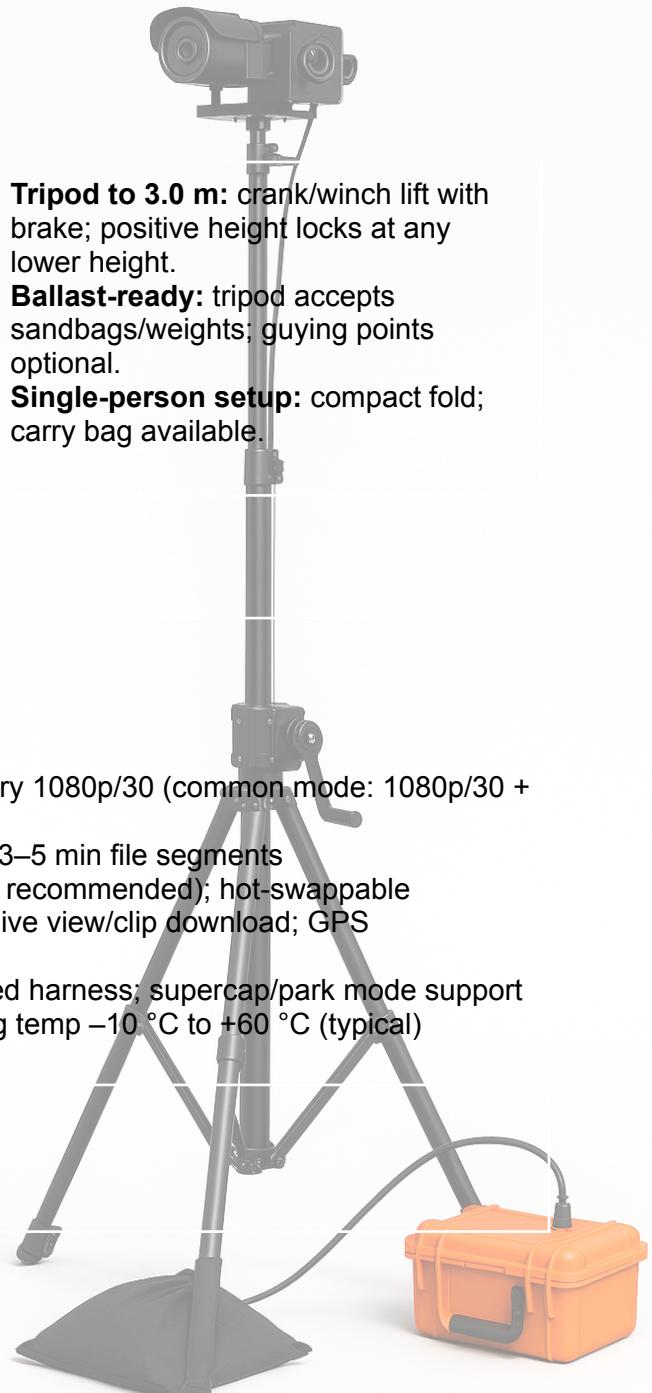
Features

- **Dual cameras:** primary up to 4K/30 (configurable), secondary 1080p/30.
- **12+ hours continuous capture:** loop recording to high-endurance microSD (256–512 GB).
- **Wi-Fi app control:** live view, settings, and clip export (no built-in screen).
- **Weather-sealed optics:** camera pods IP66/67; rugged controller enclosure.
- **Tripod to 3.0 m:** crank/winch lift with brake; positive height locks at any lower height.
- **Ballast-ready:** tripod accepts sandbags/weights; guying points optional.
- **Single-person setup:** compact fold; carry bag available.

Tek Specs

Camera & Recording subsystem

- **Channels:** 2 (front “primary”, rear “secondary”)
- **Resolutions/FPS:** Primary up to 4K/30; secondary 1080p/30 (common mode: 1080p/30 + 1080p/30 for storage efficiency)
- **Codec/Container:** H.264/H.265, loop recording, 3–5 min file segments
- **Storage:** microSD **256–512 GB** (high-endurance recommended); hot-swappable
- **Connectivity:** Dual-band Wi-Fi for configuration/live view/clip download; GPS (enable/disable)
- **Power input:** 12 V DC (hard-wire) via in-line fused harness; supercap/park mode support
- **Environmental:** Camera pods **IP66/67**; operating temp –10 °C to +60 °C (typical)





Tripod subsystem

- **Type:** Telescopic lighting/survey tripod with **hand winch + auto brake**
- **Height range:** ~1.7 m to **3.0 m** max
- **Top interface:** 35 mm mast with **M12** threaded provision (custom adaptor included)
- **Safe working load:** **≤60 kg** (camera kit mass << SWL)
- **Stability:** Wide tripod footprint; leg braces; ballast loops; optional guying
- **Transport:** Folds compact; optional padded carry case

Power & Runtime (with Safetek 30Ah LiFePO₄ pack, ~384 Wh)

- Typical load: 6–12 W (dual-cam + DVR + Wi-Fi/GPS as set)
- Estimated runtime:
 - 10 W ≈ **38 h**
 - 12 W ≈ **32 h**

(All estimates; confirm in field with your chosen bitrate/GPS settings.)

Video Retention (loop) — indicative at common bitrates

- 256 GB @ 1080p/30 dual-cam: ~19–29 h (30–20 Mb/s total)

Safety & Operational Benefits (traffic/site context)

- Reduces worker exposure: less need for static human observers near live traffic.
- Objective evidence: high-quality footage for incident/near-miss investigation and contractor due diligence.
- Behavioural uplift: visible cameras deter unsafe practices and plant-people interface breaches- would recommend advice signage to be deployed with SAFEcam
- Faster root-cause analysis: time-synced dual viewpoints improve reconstruction of events.
- Supports continuous improvement: exportable clips for toolbox talks and training.
- Rapid redeployment: single-person setup enables dynamic positioning as work stages shift.