USE CASE · TETHERED SURVEILLANCE UAV

Tethered drone for incident command and disaster response

At a fire, an accident or a rescue, the person in command needs to see the whole scene, not the part visible from the road. A tethered drone gives that view from above for as long as the incident lasts, and it is ready in minutes.

IN SHORT

- A tethered drone gives incident commanders a live aerial view of a fire, accident or rescue for hours, powered through a cable from the ground.
- The Star INXS Tethered Surveillance UAV deploys in under 15 minutes, weighs 12-15 kg all-up, and its ground control station configures itself.
- A 640 x 480 thermal/IR camera helps show heat and people in smoke and darkness, alongside a 4K day camera with 40x optical zoom and a 1,200 m laser range finder.
- It stays up for 18-24 hours on ground power, and tether monitoring, power-failure alerts and emergency recovery procedures are built in.



KEY FIGURES · TETHERED SURVEILLANCE UAV

FIGURE	VALUE
Flight duration, tethered	18–24 h
Tether length	100 m or more
All-up weight	12–15 kg
Deployment time	Under 15 min
Power capacity	3 kW minimum
Day camera (EO)	4K, 40× optical zoom
Night camera	Thermal / IR, 640 × 480
Camera stabilisation	3-axis gimbal
Laser range finder	1,200 m
Data link	Optical fibre
Ground control station	Auto-configuring

HOW A RESPONSE TEAM USES IT

1. **Choose the ground station position** upwind and clear of the hazard, with space for the tether.
2. **Deploy and raise.** The set is up in under 15 minutes; the aircraft rises to its working position.
3. **Share the view.** Incident commanders watch the live video at the command post and direct crews.
4. **Keep a record.** The automatic flight log records the flight for the after-action report.

COMMON QUESTIONS

How quickly can a tethered drone be ready at an incident?
The Star INXS Tethered Surveillance UAV deploys in under 15 minutes.

Can it see people in smoke or at night?
It carries a 640 x 480 thermal/IR camera on a 3-axis gimbal, with a 4K day camera and 40x optical zoom.

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