USE CASE · PASS

Long-endurance drone for police aerial support

Some police tasks last for hours and cover a whole city, a long highway or a stretch of coast. A battery quadcopter has to land too often for that. A petrol-engined fixed-wing drone stays up for most of a shift and is flown from a ground control station far from the scene.

IN SHORT

- A long-endurance fixed-wing drone gives police hours of aerial watch in one sortie; Star INXS PASS (Police Aerial Support System) flies for up to 360 minutes with a 200 km command range.
- PASS is a petrol-engined fixed-wing UAV with a 3 m wingspan and a 25 kg MTOW that takes off and lands in a short distance (STOL).
- It carries up to 8 kg of EO/IR and mission payload, works at 1,500 m above ground and has a 6,000 m service ceiling.
- It comes with the Star INXS in-house ground control station; the IKC-3.5 and the SG-3 are the other long-endurance fixed-wing options.



THE FIGURES THAT MATTER

FIGURE	WHY IT MATTERS FOR POLICE WORK	PASS
Endurance	A watch that lasts most of a shift	360 min
Command range	How far from the control station it can work	200 km
Take-off and landing	The strip you need	STOL
Payload	Cameras and mission equipment	Up to 8 kg
Cruise / max speed	Time to reach the area	90 km/h / 100 km/h
Operating altitude	Working height over a city or highway	1,500 m AGL
Ceiling	Use in hill districts	6,000 m AMSL

HOW A SORTIE IS FLOWN

1. **Check permissions.** Flying in India follows the DGCA rules and local permissions. Obtain what the area and the flight require before flying.
2. **Choose the strip.** PASS is a STOL aircraft, so a short strip is enough for take-off and landing.
3. **Plan the mission.** Use the ground control station to plan the route and check the weather.
4. **Fly and monitor.** The aircraft cruises to the area and holds its watch. The station shows live telemetry and controls the payload.
5. **Pass the picture.** Operators report what the EO/IR payload shows to the control room.

COMMON QUESTIONS

Who makes PASS?
Star INXS Solutions Pvt Ltd. PASS (Police Aerial Support System) is designed and built in India.

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