



NIGHTJAR

7-INCH SURVEY QUADCOPTER

STATUS • OPERATIONAL



Buildable today — ~£610 bill of materials, 40-minute hover, flying the CUSTOS autonomy stack on commercial hardware.

AIRFRAME SPEC

CLASS	7-INCH SURVEY QUADCOPTER
STATUS	OPERATIONAL
MISSION	WILDFIRE EARLY WARNING
WHEELBASE	295 mm
HOVER	40 min
RANGE	20 km
AUW	1.26 kg

THE MISSION • CIV-01

WILDFIRE EARLY WARNING

Dawn and dusk patrol lines over high-risk forestry, reading the ground in thermal. A smouldering ignition is geolocated and reported minutes after it starts, while it is still one crew rather than a thousand hectares. 2025 gave the UK its largest recorded wildfire. 2026 gave Scotland a national action plan.

PAYLOAD

EO/IR thermal core and ASTRUM SPAD array, with a calibration pipeline tuned for low-light edge inference across the dawn and dusk ignition window

PROFILE

Autonomous patrol lines • dawn/dusk cycles

OUTCOME

Target: under 90 s from ignition to alert on patrol

REGIONS

Scotland • Iberia • Gulf