

KLM SENTINEL

EXPORT-CONTROLLED ITEM
AUTHORISED GOVERNMENT END-USERS ONLY

RAPID RESPONSE ISR • TECHNICAL BROCHURE

SENTINEL T-60

The man-portable pathfinder. Unpack, self-arm and airborne in under three minutes — rated above Everest, hardened against jamming, built for the first team on the ground.

36,000 FT SERVICE CEILING

• 55-65 MIN ENDURANCE

• LEVEL 2 ACTIVE ECM

THE MAN-PORTABLE PATHFINDER

Optimised for fast deployment by a one-man team: unpack, self-arm and airborne in under three minutes. The T-60 shares its FHSS datalink architecture, combination sight family and KAT ground-control ecosystem with the long-endurance T-90 — so training, spares and mission planning carry across the fleet.

55–65 MIN

MAX FLIGHT ENDURANCE

20 KM

MAX RADIO RANGE

36,000 FT

SERVICE CEILING AMSL

85 KM/H

MAX SPEED

65 KM/H

WIND RESILIENCE

Lvl 2 ECM

ACTIVE COUNTER-MEASURES

SENTINEL T-60

● FIELD DEPLOYMENT



LIVE AIRFRAME · UNEDITED FIELD PHOTOGRAPHY

CORE CAPABILITIES

BUILT FOR THE EDGE OF THE SKY

01
ULTRA HIGH THRUST

Extreme thrust-to-weight ratio for operation in rarefied air down to 20 kPa; rated for launch at 29,400 ft AMSL with a 36,000 ft service ceiling — near-zero radar signature, ultra-low acoustic noise.

02
ELECTRONIC COUNTER-MEASURES

Active ECM suite defends against GPS and radio jamming, working with a frequency-hopping command & control link to keep the aircraft flying and transmitting under a hostile spectrum.

03
ALL-WEATHER / ALL-TERRAIN

Cold-soak launch at -25°C from 29,400 ft, IP67 all-weather sealing and rain-capable systems for year-round, cross-theatre operation.

04
AUTONOMOUS OPERATIONS

Fully programmable waypoint navigation on pre-downloaded maps, automatic payload functions, custom hover-time per waypoint, self-arming and auto take-off / auto-landing throughout.

HIGH ALTITUDE AREA OPERATIONS

36,000 FT — SENTINEL SERVICE CEILING



29,400 FT — MAX LAUNCH ALTITUDE

29,032 FT — MT. EVEREST SUMMIT

≈15,000 FT — TYPICAL TACTICAL QUADCOPTER

SEA LEVEL

TECHNICAL SPECIFICATIONS

FLIGHT PERFORMANCE

SPECIFICATION	VALUE
Max Flight Endurance *1	55–65 minutes
Max Radio Range *2	20 kilometres
Max Launch Altitude (AMSL)	29,400 ft (8,961 m)
Service Ceiling (AMSL)	36,000 ft (10,974 m)
Max Speed	85 km/h
Max Climb Rate	3.3 m/s
Wind Resilience	65 km/h
ECM Suite	Level 2 Active ECM
Cockpit Video Link	1080p Full HD (1920×1080)
Payload Tilt Angle	+15° to -90°
Failsafe (Over Range / Link Loss / Low Battery)	Auto-Home
Transmission	Wide-band UHF · auto frequency hopping



UC65 PRO COMBINATION SIGHT

NOWHERE TO HIDE

One gyro-stabilised turret, two sights, zero blind hours.
Simultaneous stitched view of day and thermal channels —
switchable across up to 9 colour palettes — enables faster, more
accurate interpretation of the ground picture.

SPECIFICATION	VALUE
Day Sight	2K resolution @ 30 FPS · 30× hybrid zoom
Thermal Imager	640×512 · 30 Hz refresh · zero-ambient-light targeting
Laser Range Finder	1 km, true oblique distance
Feed Mode	Simultaneous stitched day + thermal, single frame
Thermal Colour Palettes	9 selectable palettes
Stabilisation	3-axis gyro-stabilised gimbal
Sight ECM Rating	Level 2 active

UC65 PRO

● ACTUAL PRODUCTION UNIT



3-AXIS GYRO-STABILISED · LEVEL 2 ECM RATED

OPTICAL PAYLOAD • IN THE FIELD

ONE TARGET. TWO CHANNELS.

The same ground vehicle, resolved simultaneously across the UC65 Pro's day and thermal channels — 30× hybrid EO zoom for stand-off identification, paired with a 640×512 white-hot thermal imager refreshing at 30 Hz for zero-ambient-light targeting.



DAY SIGHT
30× HYBRID ZOOM

THERMAL PALETTES
9 SELECTABLE

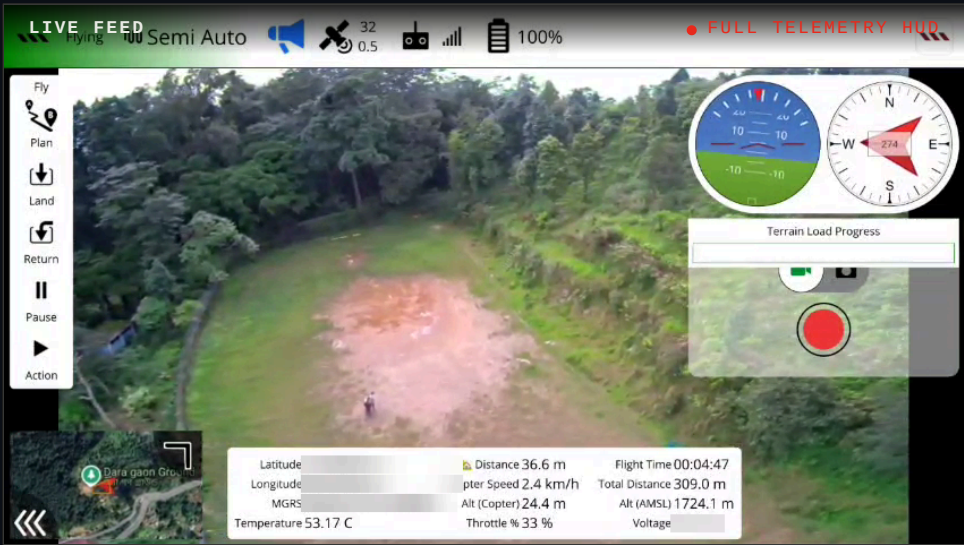
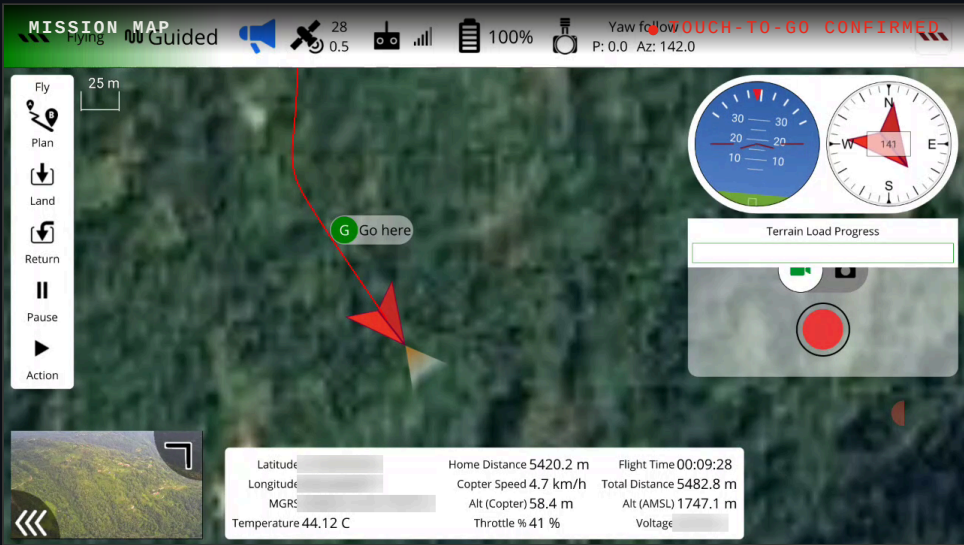
FEED MODE
DUAL STITCHED

RANGE FINDER
1 KM OBLIQUE

KLMFLY GROUND CONTROL SOFTWARE

TOTAL SITUATIONAL AWARENESS. ONE SCREEN.

Every mission runs over a fully encrypted, secure digital link between aircraft and ground station — FHSS frequency-hopping with AES-grade channel encryption, so the mission map, live feed and telemetry can never be intercepted or spoofed mid-flight.



SATELLITE / TERRAIN / HYBRID Switch base map layers on the fly to match terrain, lighting and mission need.	ONE-CLICK MISSION Plan a full waypoint mission and launch it with a single confirmed command.	WAYPOINT NAVIGATION Drop, sequence and edit unlimited waypoints directly on the map.
TOUCH-TO-GO Tap any point on the map and the aircraft flies there — no manual entry.	ONE-TOUCH TAKEOFF & LAND Single-command autonomous takeoff and landing at the marked home point.	DYNAMIC WAYPOINT ALTERATION Insert, remove or drag waypoints mid-flight without interrupting the mission.
IN-FLIGHT ALTITUDE CHANGE Raise or lower mission altitude live, mid-mission, without re-planning the route.	HOLD & HOVER Command an instant position hold at any point for on-station observation.	FULLY ENCRYPTED LINK FHSS frequency-hopping with secure channel encryption end-to-end.

KAT 9 PRO

● DARK OLIVE · SENTINEL T-60



KAT 9 PRO CONTROLLER

ONE UNIT. TOTAL COMMAND.

Smart integrated aircraft control with fully autonomous mission control and waypoint navigation. Picture-in-picture map and live view, dual-antenna FHSS diversity, and a 7" touch display — 180 minutes of endurance on internal power with 64 GB of internal, non-removable cockpit recording storage.

SPECIFICATION	VALUE
Display	7" touch display
Control Architecture	Smart integrated aircraft control · fully autonomous mission control & waypoint navigation
Live View	Picture-in-picture map and live sensor feed
Radio Diversity	Dual-antenna FHSS diversity
Internal Battery Endurance	180 minutes on internal power
Cockpit Recording	64 GB internal storage · non-removable
Failsafe (Over Range / Low Battery / Link Loss)	Auto-Home

OVER RANGE AUTO - HOME	LOW BATTERY AUTO - HOME	LINK LOSS AUTO - HOME
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PHYSICAL, POWER & COMMUNICATIONS

BUILT TO CARRY, LAUNCH, SUSTAIN

PHYSICAL & POWER

SPECIFICATION	VALUE
Wingspan / Diagonal (unfolded)	1120 × 1120 × 290 mm
Folded Dimensions (L × W × H)	572 × 572 × 290 mm
Maximum Take-Off Weight (MTOW)	3,395 g
Empty Weight	1,900 g
Frame Material	Carbon fibre · polyurethane · magnesium alloy composite
Number of Rotors	4
Propeller Size	15.5"
Battery Chemistry	Lithium Hybrid HV · proprietary cell
Battery Capacity / Voltage	16,500 mAh / 25 V
Battery Swap Time	< 90 seconds
Charge Time (0–100%)	40 min (fast charge) · 105 min (normal)
Max Additional Payload Capacity	Up to 1 kg

COMMUNICATIONS & NAVIGATION

SPECIFICATION	VALUE
Control Link Frequency Band	2.4 GHz / 5.8 GHz / X-band FHSS
Video Link Frequency Band	2.4 GHz / 5.8 GHz / X-band FHSS
Control Link Latency	< 100 ms
Video Latency	< 100 ms
GNSS Constellations Supported	GPS · GLONASS · Galileo · QZSS
RTK / PPK Support	No
Onboard Recording Storage	64 GB

ENVIRONMENTAL & COMPLIANCE

PROVEN IN THE FIELD, NOT THE LAB

SPECIFICATION	VALUE
Operational Temperature	-55°C to +65°C
Cold-Soak Launch	Down to -25°C from 29,400 ft AMSL
Weatherproofing	IP67 · rain capable
Operating Air Pressure	Down to 20 kPa
Operating Humidity Range	Up to 95% RH
Applicable MIL-STD Reference	MIL-STD-810H



ORDERING INFORMATION

DEPLOY THE SENTINEL T-60

FIELD	DETAILS
Part Number	KLMPST60001
Warranty Terms	2-year comprehensive warranty against manufacturing defects
Included Accessories	Transport case · spare batteries · charger & cables
Training & Support Package	2 weeks comprehensive training, complimentary on system purchase
Contact for Full Briefing	sales@klmsentinel.com — Subject: Sentinel T-60 Briefing



KLM SENTINEL

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