Specifications

Features

- Blue UAS
- NATO stock number compliant
- Multi-Connectivity*: 5G, Wi-Fi, LoRa, Starlink, MARS
- Optics: 35x Zoom and Flir Boson 640 thermal
- 38-60 minute flight time
- Ultra low acoustic signature: 77dB
- Cybersecurity: Compliant with FIPS140-2
- IP53 Rated
- Operating temperature: -33ºF to +122ºF
- Deployable in less than 2 minutes

ANAFI UKR Kit Includes

- 1 x ANAFI UKR aircraft
- 1 x ANAFI UKR flight battery
- 1 x Parrot Skycontroller UKR (GCS)
- 1 x wall charger
- 2 x USB-C cables
- 1 x USB-A to USB-C cable
- 1 x set of 3 Intl. power adapters
- 1 x UKR simulator software key
- 1 x hard case

Sovereign ISR Micro-UAV Range for Defense, Government and Public Safety

From defending freedom to domestic missions: a tactical-grade, AI powered micro-UAV range designed for GNSS-denied environments, hardened against contested electromagnetic environments, and engineered for sovereign control.

Multi-Connectivity

- 5G
- Wi-Fi
- LoRa
- Starlink
- MARS frequency hopping radio**

*Version Dependant
**By special request

Contact us at uxs@darley.com
or 630-735-3500

Aircraft
- Size folded: 245 x 160 x 116 mm (9.6 x 6.3 x 4.6")
- Size unfolded: 350 x 665 x 116 mm (13.8 x 26.2 x 4.6")
- Mass: 959 g (2.11 lb)
- Maximum take-off mass (MTOM): 1,450 g / 3.20 lb
- Maximum transmission range:
- 5G*: range without limits
- Wi-Fi*: 5 km / 3.1 mi
- MARS Radio**: 15 km / 9.32 mi
- LoRa: 20 km / 12.43 mi
- Maximum horizontal airspeed: 17 m/s
- Maximum horizontal ground speed: 12.6 m/s
- Maximum ascent speed: 8 m/s
- Maximum descent speed: 8 m/s
- Maximum wind resistance:
- During flight: 15 m/s
- During take-off and landing: 15 m/s
- Maximum propeller speed: 8,500 rpm
- Sound power level at 1 m (3 ft): 77 dBA
- Service ceiling: 5,000 m above MSL (Mean Sea Level)
- Operating temperature: –36 ºC to +50 ºC (–33 ºF to +122 ºF)
- No take-off temperature limitation if battery is maintained between –20 ºC and +50 ºC (–4 ºF to +122 ºF)
- IP53: rain and dust resistant
- No NFZ (No-Fly Zones) limitation
- Takes off from / lands in the hand of the operator
- Optical navigation for GNSS-denied flight
- Indoor flight
- MicroSD card slot
- Deployment time: < 2 min

Sensors
- Satellite navigation: GPS, GLONASS, Galileo & BeiDou
- Barometer and magnetometer
- Front and vertical stereo cameras, and vertical range sensor
- 4 x 6-axis IMU (3-axis accelerometers + 3-axis gyroscopes) (Flight IMU: ICM-40609-D)

Cybersecurity
- Zero data shared without user consent
- Manage your data privately between drone and device or share anonymous data on secured European servers
- SD card AES-XTS encryption with a 512-bit key
- Digitally signed firmware
- Compliant with FIPS140-2

Radio Link
- 5G*
- Wi-Fi*
- MARS** (Frequency Hopping Radio)
- Encrypted backup LoRa radio
- Direct video stream resolution: 1080p at 30 fps
- AES 256 encryption: packet and radio level

EQ IMage Chain
- 2 sensors: 1/2.4"
- Digital zoom: 35x
- Electronic shutter speed: 1/25 s to 1/10,000 s
- ISO range: 100 - 3,200
- Video resolution: 4K / FHD / HD
- Video format: MP4 (H.264 & H.265)
- Photo resolutions: Wide: 21 MP (84º FOV), Rectilinear: up to 16 MP (up to 75.2º FOV)
- Photo formats: JPEG, DNG (Digital Negative RAW)

IR Image Chain
Sensor: FLIR BOSON - Resolution: 640 x 512 px
- Temperature range: –40 ºC to +250 ºC (–40 ºF to +482 ºF)
- Thermal sensitivity: ≤60 mK
- Measured IR wavelength range: 8 to 14 micrometers
- Video resolution: UHD (2160p) at 8.6 fps
- Video format: MP4 (H.264 / H.265)
- Photo formats: JPEG

Image Stabilization
- 3-camera IR/EO stabilized gimbal:
  - Hybrid, Mechanical & Electronics (EIS): 3-axis
  - Controllable gimbal tilt range: –90º to +90º

Advanced Flight App - Freeflight 8
- Flight Planning with waypoints and points of interest
- Object recognition & tracking
- Cursor On Target
- Video streaming & recording
- EO and IR cameras settings management
- Touch & Fly
- System settings and management
- Flight logs recording and reviewing

Smart Battery*
- Type: High density LiPo (227 Wh/kg)
- Capacity: 6,800 mAh
- Voltage (nominal): 11.55 V (3 x 3.85 V cells)
- Charging port: USB-C
- Charges fully in 2 h 30 min with the USB-PD (Power Delivery) charger included in the pack
- Maximum charging power: 45 W
- Autonomy: 38 min
- Range: 20 km / 12.43 mi at 10 m/s airspeed

XLR Smart Battery*
- Type: High density Li-ion (241 Wh/kg)
- Capacity: 20,200 mAh
- Voltage (nominal): 11.55 V (3 x 3.85 V cells)
- Charging port: USB-C
- Charges fully in 3 h min with the USB-PD (Power Delivery) charger included in the pack
- Maximum charging power: 45 W
- Autonomy: 60 min
- Range: 40 km / 24.86 mi at 10 m/s airspeed

Ground Control Station - Parrot Skycontroller UKR
- Size folded: 171 x 302 x 77 mm (6.7 x 11.9 x 3.0")
- Size unfolded: 171 x 302 x 215 mm (6.7 x 11.9 x 8.5")
- Mass: 1,764 g (3.89 lb)
- Battery capacity: 10,000 mAh
- Battery voltage (nominal): 7.2 V
- Battery charging duration: 2 h (2 h 30 min with tablet)
- Autonomy: 4 h 30 min
- Ports: USB-C (tablet), USB-C (charging), USB-A (pairing + accessory interface), Ethernet (Remote Antenna feature), HDMI
- IP53: rain and dust resistant
- SKYCONTROLLER UKR is supplied with a Samsung tablet, but is also compatible with an iPad Mini
- The system is also available without a tablet

*Version Dependant
**By special request