

# Parrot

## ANAFI UKR XLR

THE SOVEREIGN ISR MICRO-UAV RANGE  
FOR DEFENSE, PUBLIC SAFETY AND GOVERNMENT



NATO STOCK NUMBER  
COMPLIANT

## Optical Navigation for GNSS-Denied Flight



## Multiple Secure Radio Architecture

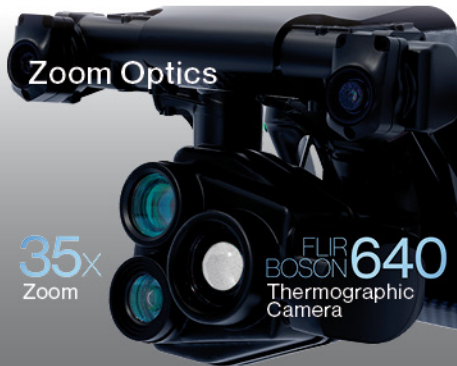
5G  
LoRa  
Starlink  
MARS frequency  
hopping radio



## Zoom Optics

35X  
Zoom

FLIR  
BOSON 640  
Thermographic  
Camera



## Ultra low Acoustic Signature

77  
dB



## Cursor On Target Object Recognition & Tracking



49° 5' 37" N  
1° 55' 45" E



Includes MGRS

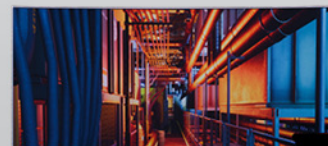
## FreeFlight 8



## Software Included



Map generator



ANAFI UKR Simulator

## Remote Antenna\*

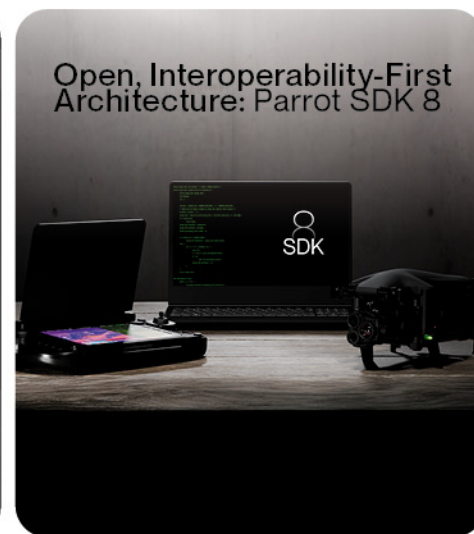


When used with MARS RANGER, MARS ORBITER  
or an additional SKYCONTROLLER UKR

## Cybersecurity by Design



## Open, Interoperability-First Architecture: Parrot SDK 8



# TECHNICAL SPECIFICATIONS

## 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: 1,024 g (2.26 lb)
- Maximum take-off mass (MTOM): 1,450 g (3.20 lb)
- Maximum transmission range:
  - 5G: range without limits
  - MARS Radio: 40 km (24.85 mi)
  - LoRa: 40 km (24.85 mi)
- Maximum horizontal airspeed: 17 m/s (38.1 MPH)
- Maximum horizontal groundspeed: 29.6 m/s (66.2 MPH)
- Maximum ascent speed: 8 m/s (17.9 MPH)
- Maximum descent speed: 8 m/s (17.9 MPH)
- Maximum wind resistance:
  - During flight: 15 m/s (33.5 MPH)
  - During take-off and landing: 15 m/s (33.5 MPH)
- Maximum propeller speed: 8,500 rpm
- Sound power level: 77 dBA
- Service ceiling: 5,000 m above MSL (Mean Sea Level)
- Operating temperature: -36 °C to +50 °C (-33 °F to +122 °F)
- No take-off temperature limitation if battery is maintained between -20 °C and +50 °C (-4 °F to +122 °F)
- 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)

## HARDENED 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

## MULTIPLE SECURE RADIO ARCHITECTURE

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

## EO IMAGE CHAIN

- 2 sensors: 1/2.4"
- Digital zoom: 35x
- Electronic shutter speed: 1/25 s to 1/10,000 s
- ISO range: 100 - 12,800
- Video resolution: 4K / FHD / HD
- Video format: MP4 (H.264 & H.265)
- Photo resolutions: Wide: 21 MP (84° FOV), Rectilinear: up to 16 MP (up to 75.2° FOV)
- Photo formats: JPEG, DNG (Digital Negative RAW)

## IR IMAGE CHAIN

- Sensor: FLIR BOSON - Resolution: 640 x 512 px
- Temperature range: -40 °C to +250 °C (-40 °F to +482 °F)
- 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: -90° to +90°

## 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

## XLR SMART BATTERY

- Type: High density Li-ion (300 Wh/kg)
- Capacity: 20,200 mAh
- Voltage (nominal): 10.20 V (3 x 3.40 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: 70 min at 6.5 m/s airspeed
- Range: 40 km (24.85 mi) at 14 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

