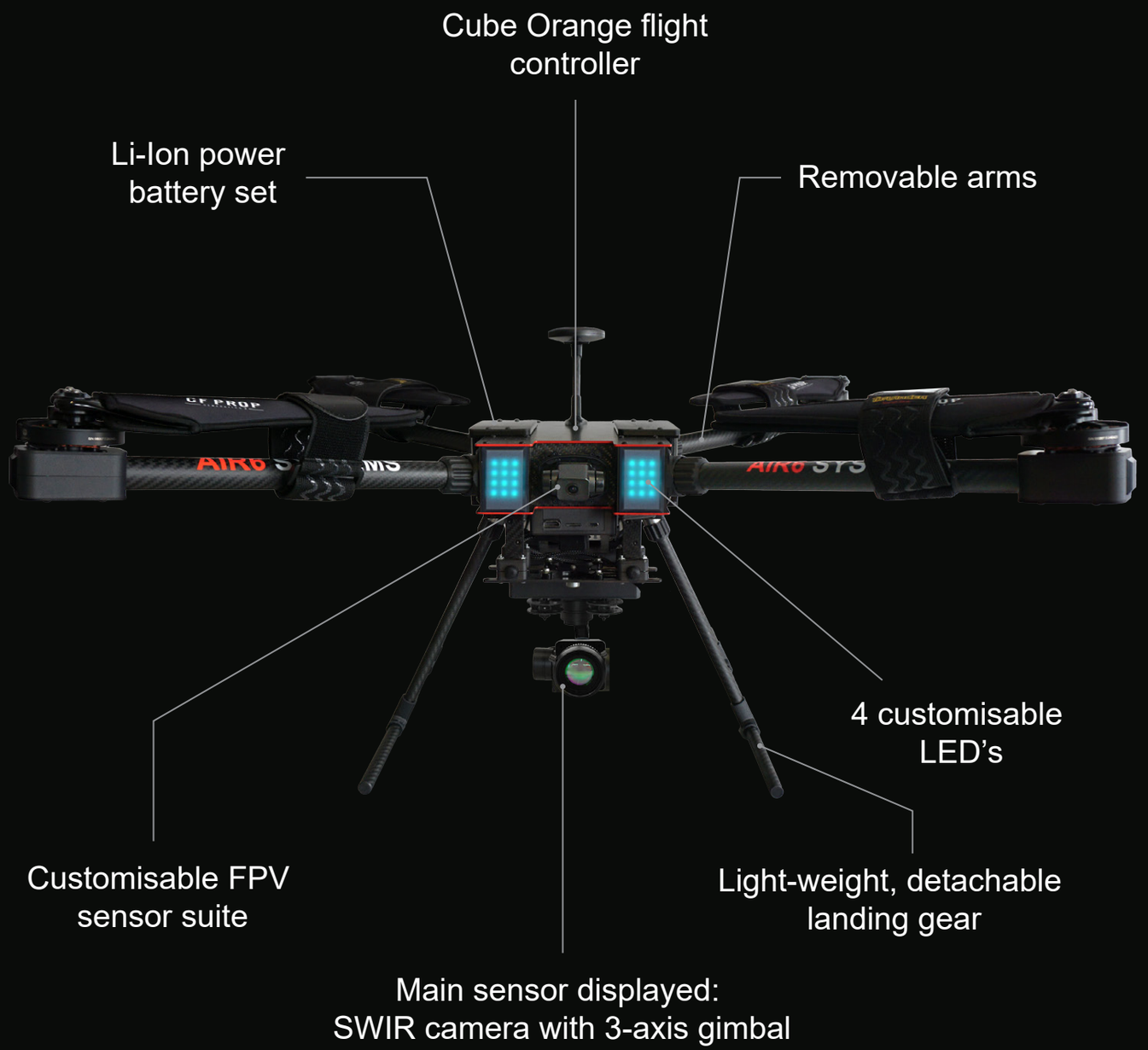


AIR4 RUGGED

Aircraft	
Weight (incl. batteries)	5,229 g
Max Take-off Weight	9,000 g
Recommended Payload	< 1,500 g (possible: 3,500 g)
Dimensions	L 760 x W 800 x H 415 mm
Operating Temperature	-20°C ~ 50 °C
Ingress Protection Rating	IP54
Flight Time	40+ minutes
Operating Frequency	2.4 GHz, 5.725 - 5.850 GHz
GNSS	GPS / RTK L1, GLONASS, Galileo
Li-Ion battery	Extended charging cycles (up to 1,000x)
Battery Set	12S 6P = 43,2V 18.000mAh
Payloads	Multiple payload options
Sensors	Built-in HD FPV camera
Operational Range	Up to 10 km

AIR6 SYSTEMS

MOST POPULAR SENSOR PAYLOADS

We integrate a wide range of sensors into our drone platform as per customer requirements.



RGB: 102MP Medium-Format Metric Sensor

Focal Length: 50 mm
Power Supply: 12 V - 27 V DC
Working Temperature: -20 ~ 65 °C
Total Pixels: 102 MP
Camera Memory: 512 GB x 2
Exposure Time Interval: 1.55 s
Minimum Focusing Distance: 25 m
Dimension: 70 mm x 76 mm x 109 mm
Weight[1]: c. 380 g (excludes gimbal)

- MLS mechanical global shutter
- Self-developed MLE lens
- Anti-condensation coating for shutter



Multi-Sensor 1: 4K 180x Hybird Zoom Thermal Imaging Sensor

Sensor: 1/2.7 Inch, 8 MP effective resoultion
Imaging: 30x Optical Zoom (up to 180x Hybrid Zoom)
Thermal Imaging: 640 x 512 (tempature messuring)
Operating Voltage: 11 to 25.2 V DC
Working Temperature: -10 ~ 50 °C
Gimbal: 3-axis gimbal stabilizer
Aperture: F1.3 ~ 4.8 (±5%)
Dimension: 201 mm x 140 mm x 134.5 mm
Weight[1]: c. 854 g (includes gimbal)

- 2K ultra wide angle
- AI smart identify and tracking (optional feature)
- 1,200-meter range laser rangefinder
- Upside-down mode



Multi-Sensor 2: Compact, AI Enhanced, High-Precision Imaging

Sensor: 1/2Inch CMOS, 48 MP effective resoultion
Imaging: 11x Optical Zoom (up to 165x Hybrid AI Zoom)
Thermal Imaging: 640 x 512 (tempature messuring)
IP Rating: IP54
Operating Voltage: 10 to 26 V DC
Working Temperature: -20 ~ 50 °C
AI Computing Power: T10
Frame Rate: Visible up to 30 fps (4K), Thermal up to 60 Hz
Dimension: 141.5 mm x 141.5 mm x 169 mm (includes quick realse anti-vibration)
Weight[1]: c. 534 g (includes quick realse anti-vibration)

- 3-axis gimbal with ±0.01° precision for stabilized imaging
- Support AI super-resolution and box selection
- High-Precision Temperature Measurement



SWIR: High Speed, Low Noise, Digital SWIR camera

Sensor Type: InGaAs PIN-Photodiode
Readout Noise (RMS): High Gain <30 e-
Power Supply: 12 V DC ± 0.5 V
Working Temperature: -20 ~ 55 °C
Gimbal: Custom - per request
Active Pixel: 640 x 512
Frame Rate: Up to 300 Hz
Dimension: 74.2 mm x 50 mm x 50 mm
Weight[1]: c. 615 g (includes gimbal)
Shutter Mode: Global Shutter

- Ultra high intrascene dynamic range (low noise)
- On-board automated gain control (AGC)
- Ultra compact, low power - for hand-held, mobile or airborne systems.

Note: (1) Indicative - parameters may change, weight may vary depending on gimbal option.