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UAV PRODUCTS - 01, Feb 2017

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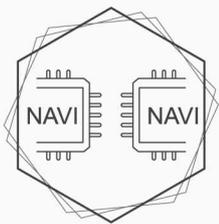


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UAV PRODUCTS



Safety Protection



Redundant Navigation System

Adopt GPS, BEIDOU and GLONASS mode, enhance applicable scenarios.



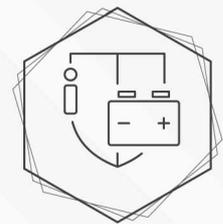
Fault-tolerant Protection

Motor Protection, Sensor fault protection, Propeller protection.



Military-level Device

High precision sensor, wider working temperature, higher reliability.



Smart Battery

Special smart battery, over charge and discharge protection, power display and anti-misoperation design.



Smart Return

Smart return when lost or low-battery, guarantee safe return during emergency.



Wireless Data Encryption

Dual-channel of Image/data transmission and remote, changable secret key, impossible to be cracked.



High-strength Composites

Adopt top carbon fibre composite, lighter and stronger.



Extreme Environment

Pass ALT, high/low temperature, vibration, protection test and etc., adapt to various complicated environments.



- Portable design
- Diagonal wheelbase: 650mm
- Flight time: 25mins
- Operating radius: 3km
- Max. flight altitude: 5km
- Tour speed: 15m/s
- Wind resistance level: 7
- Smart battery: 12000mAh

X650

TECHNICAL SPECIFICATIONS

Working Environment	-20 ~60 °C/ Less than 95% RH
Frame Arm	Foldable
Landing Gear	Foldable
Frame Weight	2.7kg
Max. Takeoff Weight	5.2kg
Positioning Module	GPS, BEIDOU, GLONASS triple-mode
Propeller	Foldable
Hover Accuracy	Pan: ±0.2m, Tilt: ±0.5m
Flight Control	Various flight modes, one-key landing, low-battery protection, auto-return, preset no-fly zone, electronic fence



- Ultralight carbon fiber material
- Diagonal wheelbase: 820mm
- Flight time: 35mins
- Operating radius: 10km
- Max. flight altitude: 5km
- Tour speed: 15m/s
- Wind resistance level: 7
- Smart battery: 22000mAh

X820

TECHNICAL SPECIFICATIONS

Working Environment	-20 ~60 °C/ Less than 95% RH
Frame Arm	Foldable
Landing Gear	Remote control
Frame Weight	3.3kg
Max. Takeoff Weight	10.0kg
Positioning Module	GPS, BEIDOU, GLONASS triple-mode
Propeller	Quick demount
Hover Accuracy	Pan: ±0.2m, Tilt: ±0.5m
Flight Control	Various flight modes, one-key landing, low-battery protection, auto-return, preset no-fly zone, electronic fence



- Ultralight carbon fiber material
- Diagonal wheelbase: 1550mm
- Flight time: 60mins
- Operating radius: 10km
- Max. flight altitude: 5km
- Tour speed: 10m/s
- Wind resistance level: 5
- Smart battery: 54000mAh

X1550

TECHNICAL SPECIFICATIONS

Working Environment	-20 ~60 °C/ Less than 95% RH
Frame Arm	Pluggable structure
Landing Gear	Quick demount
Frame Weight	9.3kg
Max. Takeoff Weight	21.6kg
Positioning Module	GPS, BEIDOU, GLONASS triple-mode
Propeller	Quick demount
Hover Accuracy	Pan: ±0.2m, Tilt: ±0.5m
Flight Control	Various flight modes, one-key landing, low-battery protection, auto-return, preset no-fly zone, electronic fence



2MP HD Camera

- Resolution: 1920 x 1080
- 30x optical zoom
- Min. illumination: 0.005Lux
- H.265 encoding
- Auto focus, Defog
- Quick demount PTZ
- 3-axis structure
- 3-layer Image Stabilization

2MP PTZ Camera

Sensor	1/2.8" CMOS
Resolution	1920(H)x1080(V)
FOV-H	67.8° ~ 2.4°
Video	H.265/H.264/MJPEG
Compression	(50/60fps@1080P)
Aperture	F1.6 ~F4.4
Lens	4.5 ~ 135mm
Optical Zoom	30x
Digital Zoom	16x
S/N Ratio	More than 55dB
Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0.0005Lux@F1.6
Storage	Micro SD card 128G
Pan/Tilt	Pan: ±168°; Tilt: -90° ~ 45°
Accuracy	±0.01°



6MP HD Camera

- Resolution: 2592 x 2592
- 30x optical zoom
- Min. illumination: 0.01Lux
- H.265 encoding
- Auto focus, Defog
- Quick demount PTZ
- 3-axis structure
- 3-layer Image Stabilization

6MP PTZ Camera

Sensor	1/1.9" CMOS
Resolution	2592(H)x2592(V)
FOV-H	61.2° ~ 2.1°
Video	H.265/H.264/MJPEG
Compression	(50/60fps@1080P)
Aperture	F1.5 ~F4.3
Lens	6 ~ 180mm
Optical Zoom	30x
Digital Zoom	16x
S/N Ratio	More than 55dB
Min. Illumination	Color: 0.01Lux@F1.5 B/W: 0.001Lux@F1.5
Storage	Micro SD card 128G
Pan/Tilt	Pan: ±168°; Tilt: -90° ~ 45°
Accuracy	±0.01°



Thermal Camera

- Uncooled VOx Microbolometer Camera
- Target visible in total darkness
- Smart thermal technology
- Temperature accuracy within ±2°C/≤ 2%
- Fire detection and alarm
- 3-axis structure
- 3-layer Image Stabilization

Thermal Camera

Thermal Pixels	640 x 512
Video	H.264/MJPEG
Compression	(50/60fps@720P)
Pixel Size	17um
Spectral Range	7.5~13.5um
Thermal Sensitivity	≤40mK
Focal Length	19mm
Distance	D:640m, R: 160m,
Man(1.8m*0.5m)	I: 80m
Distance	D:2000m, R: 500m,
Car(2.3m*2.3m)	I: 250m
Measurement Range	Low Gain:-40°C ~+550°C High Gain:-40°C ~+160°C
Storage	Micro SD card 128G
Pan/Tilt	Pan: ±168°; Tilt: -90° ~ 45°
Accuracy	±0.01°

Integrated Remote Controller



- Integrated display&control design
- Built-in 7" anti-dazzle touch screen
- Remote distance about 5km
- Real-time switch between video and map
- Support small window display
- Plan tour task and one-key landing
- Various intelligent flight modes

Screen	7" Multipoint screen, 1024(H)x600(V)
Distance	5km
System	Android 5.1
Battery	25 LiPo, 7800 mAh
Interface	Micro USB, earphone
Network	WiFi IEEE802.11 b/g/n
Storage	Micro SD card 128GB
Dimension	350x228x85mm
Battery Life	5 hours

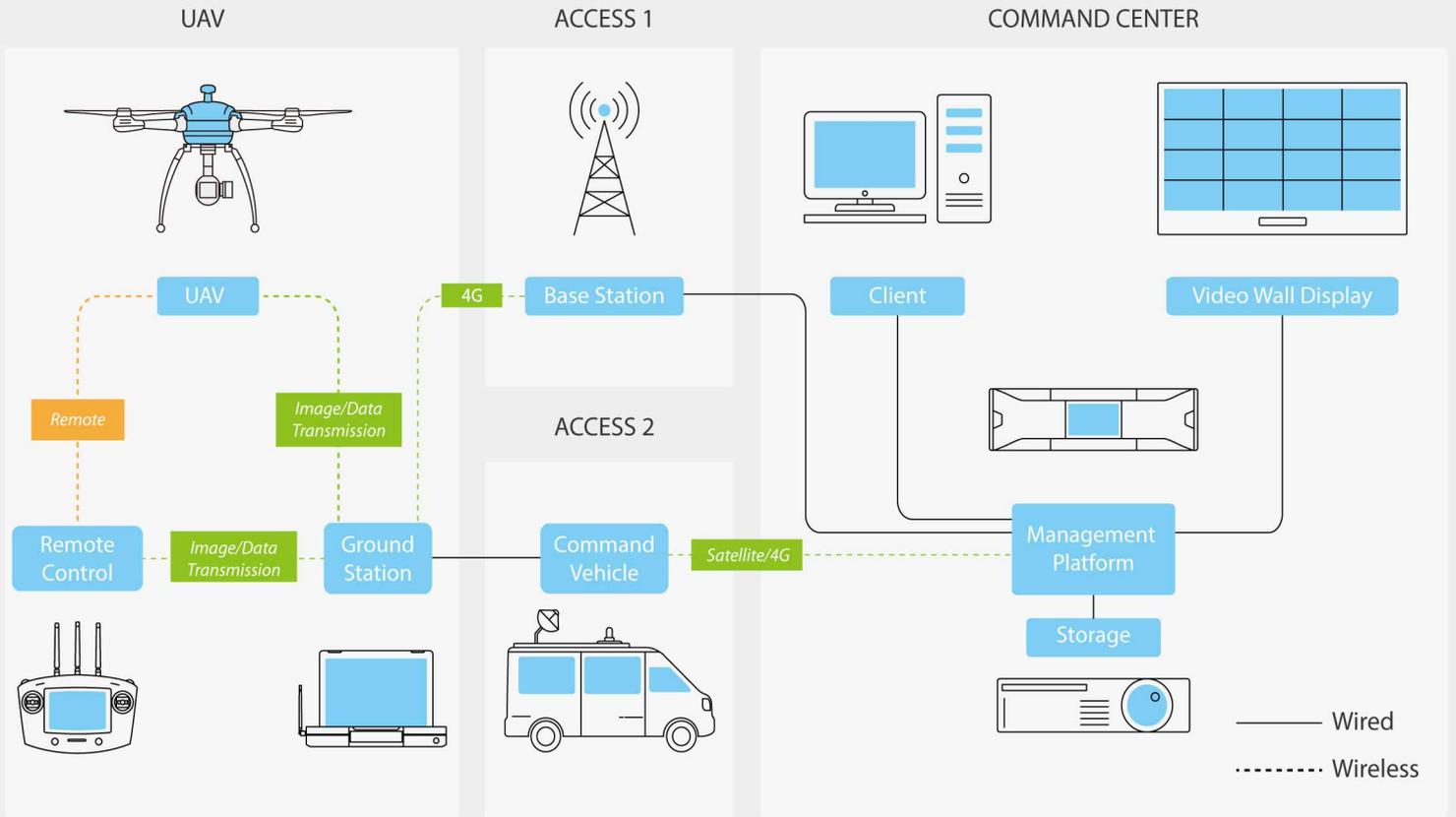
PC Ground Station



- Image/data transmission distance: 10km
- IP65, seismic/shock resistant, wide temperature
- Professional ground station system
- Plan tour task and one-key landing
- Various intelligent flight modes
- Connect to UAV, on-site command system and monitoring center
- Support GB/T28181

Distance	10km
Bandwidth	8Mbps
Protection	IP65, seismic/shock resistant
Display Screen	13.1" touch screen, 1024x768, 1200cd/m ²
RAM	4GB
Storage	500GB
Battery	8550mAh
Battery Life	5 hours
Protocol	GB/T28181

Architecture



Application

