



Dahua Drone for Industry Application

AIRCRAFT & CONTROLLER



X1550

- 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

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



X820

- Ultralight carbon fiber material
- Diagonal wheelbase: 940mm
- Flight time: 38mins
- Operating radius: 10km
- Max. flight altitude: 5km
- Tour speed: 25m/s
- Wind resistance level: 7
- Smart battery: 22000mAh

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

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

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



Distance	10km
Bandwidth	8Mbps
Protection	IP65, seismic/shock resistant
Display Screen	13.1" touch screen, 1024x768, 1200cd/m2
RAM	4GB
Storage	500GB
Battery	8550mAh

PAYLOAD (OPTIONAL)

6MP PTZ Camera



Sensor	1/1.9" CMOS
Resolution	2592*2592
FOV-H	61.2°~2.1°
Encoding	H.265/H.264/MJPEG
Aperature	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



Thermal Pixel	640*512
Encoding	H.264/MJPEG
Pixel Size	17µm
Spectral Range	7.5~13.5µm
Thermal Sensitivity	≤40mK
Focal Length	19mm
Distance Man(1.8m*0.5m)	D:640m, R:160m, l:80m
Distance Car(2.3m*2.3m)	D:2000m, R:500m, l:250m
Measurement Range	Low Gain:-40°C~+160°C High Gain: -40°C~+550°C
Temperature accuracy	±2°
Storage	Micro SD card 128G
Pan/Tilt	Pan:±168° Tilt: -90°~45°
Accuracy	±0.01°

Live broadcasting



Resolution	1920*1080
Optical Zoom	12x
Digital Zoom	16x
Encoding	H.264/MJPEG
FOV-H	58.2°~4.8°
Aperature	F1.6~F4.4
S/N Ratio	More than 55dB
Speaker Power	12W
Effective Distance	≥100m
Storage	Micro SD card 128G
Easy Installation	Support

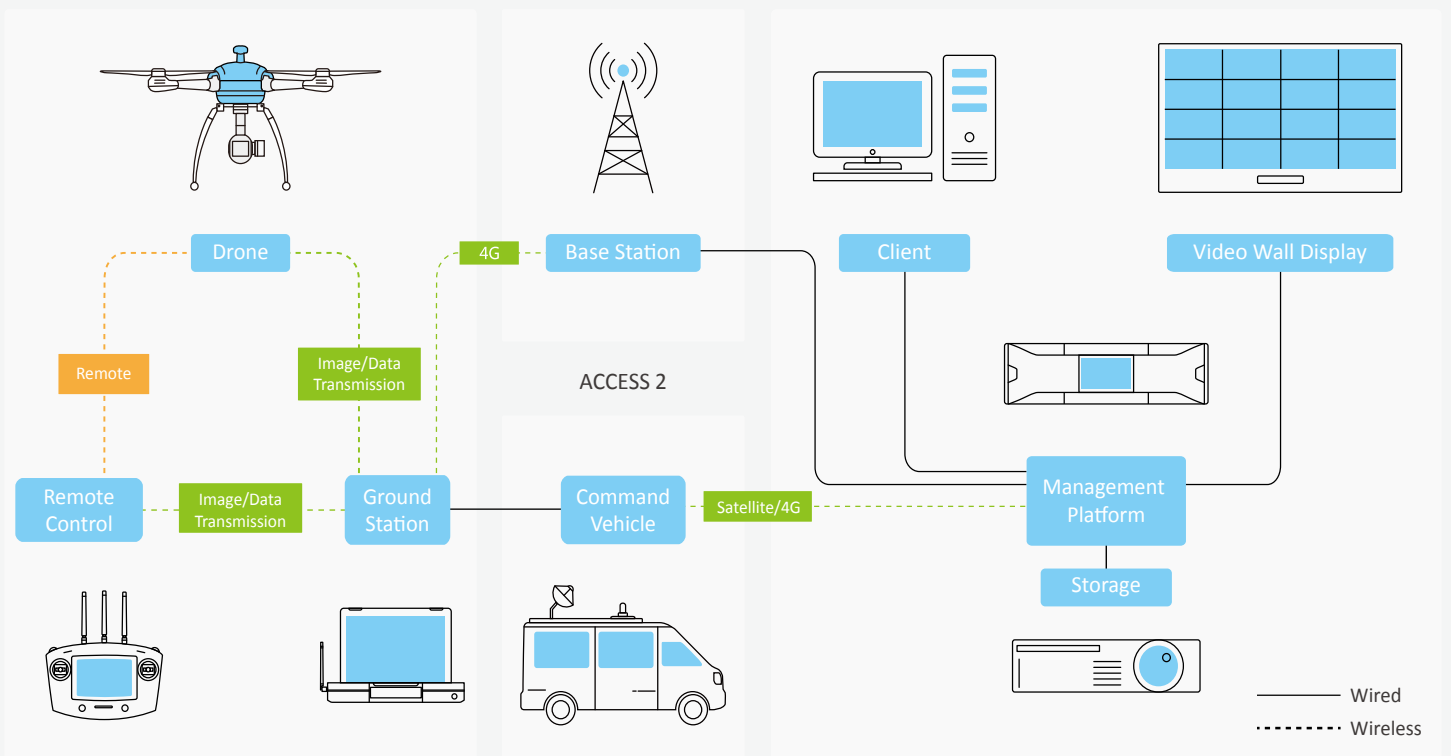
TOPOLOGY



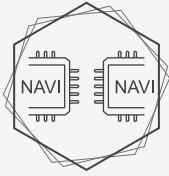
DRONE

ACCESS 1

COMMAND CENTER



SAFETY PROTECTION



Redundant Navigation System

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



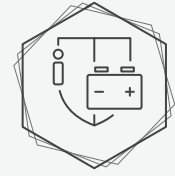
Fault-tolerant Protection

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.

APPLICATION



Emergency Rescue



Forest Fire Prevention



Naval Base



Energy Pipeline Patrol



Border Patrol



Traffic Detection



Grid Detection



Security Protection

* Design and specifications are subject to change without notice.

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