ELEKTROTEL®

Tactical Drone

5
5 R&D sites in the world

10
The industry's 10 professional technologies are world-leading

20
Holding 20 drone factories around the world

500+
More than 500 R&D technicians

200,000
The company's military-grade UAV production capacity reached 200,000 units

200,000+
The global factory area exceeds 200,000 square meters

Features

VTOL
Significantly reduced take-off and landing site and airspace requirements

Precision
The accuracy error of bombing is less than 3 meters

Cost-effective
The price of cruise missiles, the effectiveness of bombers, the accuracy of missiles

Portable
Carried and Operated by Single Soldier

Swarm
Support 100 Formation Operations

Strong Stealth
Low and slow small target, no heat source, small radar reflector

Intelligent
One-button operation, fully automatic bombing

Strong Anti-interference
Automatically identify interference from countering devices and intelligently avoid it

Standardized Design
Multi-function Switching

Suicide Attack Capability
Support dynamic target precision attack

Product Category

Loitering Munition Drone
Equipped with a multi-mode warhead, pure electric drive, and high-efficiency motors to complete tasks such as quiet patrol and precision strike.

Patrol and Attack Drone
Through high-definition pods and accurate bomb delivery systems, high-altitude reconnaissance, accurate bombing and battle damage assessment of targets are carried out.

Reconnaissance & Targeting Drone
Battlefield reconnaissance with high-definition pods and accurate radar ranging, providing artillery units with precise locations.

Countermeasure device detection system
Swarm detection equipment, which can scan and locate jamming equipment and provide positioning guidance for rear artillery.

Bombing Drone
Battlefield reconnaissance with high-definition pods and accurate radar ranging, providing artillery units with precise locations.

Laser Designation Drone
Carries a laser irradiation module to provide precise target guidance for missile systems.

Battlefield Mapping Drone
Rapid battlefield modeling, providing command with high-definition battlefield image information for pre-war analysis and post-war evaluation.

Anti-interference Function

The integration of a variety of anti-jamming technologies can enable the UAV to have the ability to protect itself, break through the defense zone and maintain communication in the jamming environment.

Application / Loitering Munition

Payload	High-explosive payload, steel ball payload, graphite fiber payload
Guidance method	Satellite
Attack accuracy	CEP 1.5m

Features

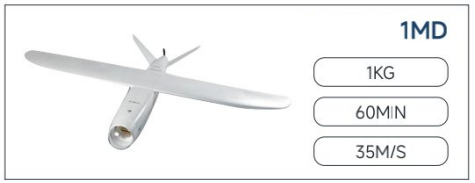
【Long Endurance】
Max. endurance 240min.

【Heavy Load】
Max. load 50kg.

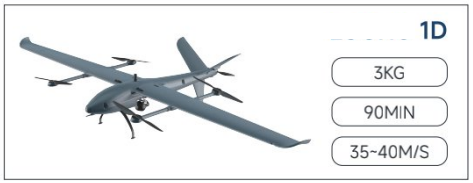
【Cost-Effective】
Mortar shells achieve the effect of guided bombs.

【Strong Invisibility】
Low speed and small target, electric drive without heat source, small radar-reflection area.

Drone Platform



1MD
1KG
60MIN
35M/S

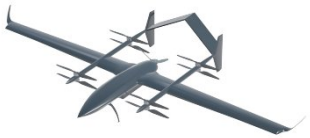


1D
3KG
90MIN
35~40M/S

2D
2KG
30MIN
35M/S

3D
10KG
120MIN
35~40M/S

5D
20KG
180MIN
50M/S



7D
50KG
240MIN
35M/S

Parameter Comparison

Parameters	1MD	1D	2D	3D	5D	7D
Max. Bomb Load	1 KG	3 KG	2 KG	10 KG	20 KG	50 KG
Takeoff Weight	8 KG	16 KG	5 KG	35 KG	55 KG	120 KG
Max. Flight Time	60 MIN	90 MIN	30 MIN	120 MIN	180 MIN	240 MIN
Cruise Speed	20 M/S	19~20 M/S	15~20 M/S	20~24 M/S	20~22 M/S	20~24 M/S
Max. Speed	35 M/S	35~40 M/S	30 M/S	35~40 M/S	50 M/S	35 M/S

Application / Reconnaissance & Targeting

Battlefield reconnaissance with high-definition pods and accurate radar ranging, providing artillery units with precise locations.

Features

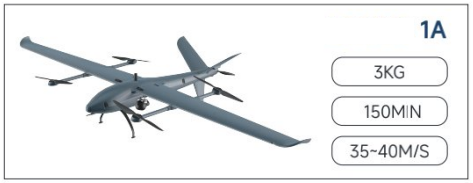
【Long Endurance】
Max. endurance 170min.

【Strong Anti-interference】
Invalidate anti-drone defense systems.

【Strong Invisibility】
Low speed and small target, electric drive without heat source, small radar-reflection area.

Drone Platform

1E A
2KG
170MIN
35M/S



1A
3KG
150MIN
35~40M/S

2A
2KG
45MIN
35M/S

Parameter Comparison

Parameters	1E A	1A	2A
Max. Load	2 KG	3 KG	2 KG
Takeoff Weight	8 KG	16 KG	5 KG
Max. Flight Time	170 MIN	150 MIN	45 MIN
Cruise Speed	20 M/S	19~20 M/S	0~22 M/S
Max. Speed	35 M/S	35~40 M/S	35 M/S

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Application / Bombing

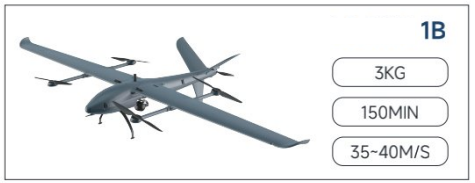
Battlefield reconnaissance with high-definition pods and accurate radar ranging, providing artillery units with precise locations.

Features

【Heavy Load】
Max. load 50kg.

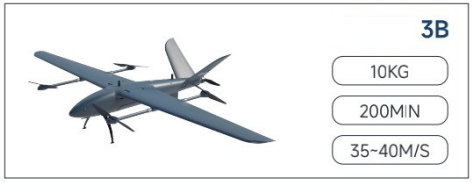
【Cost-Effective】
Mortar shells achieve the effect of guided bombs.

Drone Platform



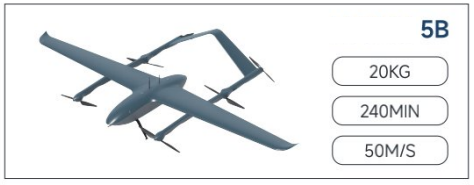
1B
3KG
150MIN
35~40M/S

2B
2KG
45MIN
35M/S

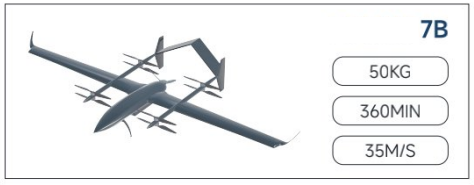


3B
10KG
200MIN
35~40M/S

4B
10KG
80MIN
15M/S



5B
20KG
240MIN
50M/S



7B
50KG
360MIN
35M/S

Parameter Comparison

Parameters	1B	2B	3B	4B	5B	7B
Max. Load	3 KG	2 KG	10 KG	10 KG	20 KG	50 KG
Takeoff Weight	16 KG	5 KG	30 KG	28 KG	55 KG	120 KG
Max. Flight Time	150 MIN	45 MIN	200 MIN	80 MIN	240 MIN	360 MIN
Cruise Speed	19~20 M/S	0~22 M/S	20~24 M/S	0~15 M/S	20~22 M/S	20~22 M/S
Max. Speed	35~40 M/S	35 M/S	35~40 M/S	15 M/S	50 M/S	35 M/S

Application / Patrol and Attack

Through high-definition pods and accurate bomb delivery systems, high-altitude reconnaissance, accurate bombing and battle damage assessment of targets are carried out.

Features

【Long Endurance】
Max. endurance 360min.

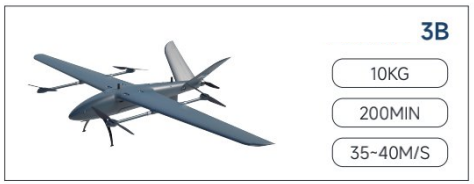
【Strong Anti-interference】
Invalidate anti-drone defense systems.

【Strong Invisibility】
Low speed and small target, electric drive without heat source, small radar-reflection area.

Drone Platform

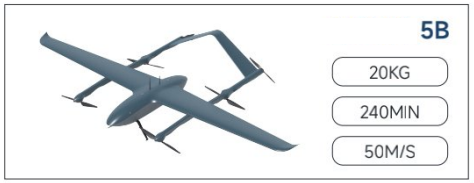
1B
4KG
150MIN
35~40M/S

2B
2KG
45MIN
35M/S

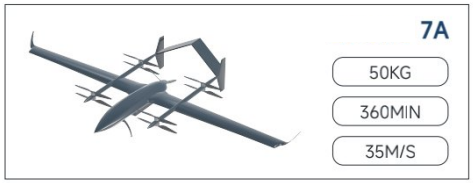


3B
10KG
200MIN
35~40M/S

4B
10KG
80MIN
15M/S



5B
20KG
240MIN
50M/S



7A
50KG
360MIN
35M/S

Parameter Comparison

Parameters	1B	2B	3B	4B	5B	7A
Max. Load	4 KG	2 KG	10 KG	10 KG	20 KG	50 KG
akeoff Weight	16 KG	5 KG	30 KG	28 KG	55 KG	120 KG
Max. Flight Time	150 MIN	45 MIN	200 MIN	80 MIN	240 MIN	360 MIN
Cruise Speed	19~20 M/S	0~22 M/S	20~24 M/S	0~15 M/S	20~22 M/S	20~22 M/S
Max. Speed	35~40 M/S	22 M/S	35~40 M/S	15 M/S	50 M/S	35 M/S

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Application / Laser Designation

Carries a laser irradiation module to provide precise target guidance for missile systems.

Features

【Strong Anti-interference】
Invalidate anti-drone defense systems.

【Strong Invisibility】
Low speed and small target, electric drive without heat source, small radar-reflection area.

Drone Platform

3S
10KG
200MIN
35~40M/S

4S
10KG
80MIN
15M/S

5S
20KG
240MIN
50M/S

7S
50KG
360MIN
35M/S

Parameter Comparison

Parameters	3S	4S	5S	7S
Max. Load	10 KG	10 KG	20 KG	50 KG
Takeoff Weight	30 KG	28 KG	55 KG	120 KG
Max. Flight Time	200 MIN	80 MIN	240 MIN	360 MIN
Cruise Speed	20~24 M/S	0~15 M/S	20~22 M/S	20~22 M/S
Max. Speed	35~40 M/S	15 M/S	50 M/S	35 M/S

Application / Countermeasure Device Detection System

It can detect and locate the anti-drone system within a 10-kilometer measurement and control range, and guide the later artillery to attack. It can provide functions such as radio monitoring, identification and positioning of UAV countermeasure equipment, and walking track tracking.

Features

【High Security】
Actively detect and counter system to avoid.

【Flexible Control】
Can be mounted on different UAV flight platforms.

Drone Platform

5F
20KG
240MIN
50M/S

7F
50KG
360MIN
35M/S

Parameter Comparison

Parameters	5F	7F
Max. Load	20 KG	50 KG
Takeoff Weight	55 KG	120 KG
Max. Flight Time	240 MIN	360 MIN
Cruise Speed	20~22 M/S	20~22 M/S
Max. Speed	50 M/S	35 M/S

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Application / Battlefield Mapping

Rapid battlefield modeling, providing command with high-definition battlefield image information for pre-war analysis and post-war evaluation.

Features

【Long Endurance】
Max. endurance 200min.

【Strong Wind Resistance】
Excellent fuselage design and power distribution make it highly resistant to wind.

【Quick Assembly】
Modular design and too- free for any quick assembly to complete easy assembly in one minute.

【Strong Invisibility】
Low speed and small target, electric drive without heat source, small radar-reflection area.

Drone Platform

1C
- 4KG
- 150MIN
- 35~40M/S

3C
- 10KG
- 200MIN
- 35~40M/S

Parameter Comparison

Parameters	1C	3C
Max. Load	4 KG	10 KG
Takeoff Weight	16 KG	30 KG
Max. Flight Time	150 MIN	200 MIN
Cruise Speed	19~20 M/S	20~24 M/S
Max. Speed	35~40 M/S	35~40 M/S

Drone Platform / 1E

2KG Payload | 170MIN Endurance | 2.4M VTOL Fixed Wing Drone

Parameters

Wing type	VTOL fixed wing (4+1 tail propulsion)	Body dimensions	2400mm(W)、1177mm(L)、364mm(H)
Takeoff weight	8 kg	Packing dimension	1280*530*450 mm
Max. load	1~2 kg	Cruising speed	20 m/s
Max. speed	35 m/s	Flight time	170 min
Max. control radius	30~80 km (optional)	Battery	30000mAh 6s*1pcs / 16000mAh 6s*1pcs
Sea level rise and fall rate	±4 m/s	Altitude ceiling	4500m (±500m)
Quiet scout altitude	300 m	Wind resistance	Level 7
Working temperature	-20~60°C	IP rating	IP54 light rain proof

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Drone Platform / 1

4KG Payload | 150MIN Endurance | 3.5M Eletric VTOL Fixed Wing Drone

1 is a single-combat VTOL fixed-wing drone featuring long flight time, easy use, and rapid deployment. It supports various payloads such as EO camera payload, EO+IR camera payload, EO+IR+laser payload as well as HD camera payload for medium and long-distance war situation reconnaissance, searching targets, and high-precision locating.

Parameters

Wing type	Composite wing (4+1 pushback)	Body dimensions	3478mm(W)、1520mm(L)、515mm(H)
Takeoff weight	16 kg	Max. load	3~4 kg
Cruising speed	Economic speed 19~20 m/s	Max. speed	35~40 m/s
Control radius	30~80 km (optional)	Max. flight time	150 min (With load 1.5kg)
Sea level rise and fall rate	±4 m/s	Battery	30000mAh 6s*2pcs
Quiet reconnaissance height	300 m	Altitude ceiling	5000 m
Max. laser ranging	3000 m	Wind resistance	Level 6
Working temperature	-20~60℃	IP rating	IP54 light rain proof

Drone Platform / 2

2KG Payload | 45MIN Endurance | 620MM Multirotor Drone

2 is a multicopter drone with a maximum payload of 2 kg and a maximum endurance of 45 minutes. The airframe components are modular and can be quickly deployed in less than 1 minute. High load and excellent endurance, removable landing gear and foldable arms, and universal plug-and-play standardized interfaces.

Parameters

Wing type	Quadcopter	Body dimensions	770mm(W)、770mm(L)、310mm(H)
Wheelbase	620 mm	Empty machine weight	3 kg
Takeoff weight	5 kg	Max. load	2 kg
Cruising speed	0~22 m/s	Cruising speed	0~4 m/s
Max. flight time	45 min (no load)	Battery	12000mAh 6s*1pcs
Altitude ceiling	5000 m	Wind resistance	Level 6
Working temperature	-20~60℃	IP rating	IP54 light rain proof
Interference	100A/M (Power frequency magnetic field)		

Drone Platform / 3

10KG Payload | 200MIN Endurance | 4.1M Eletric VTOL Fixed Wing Drone

3 is a small surveillance drone, which can be used for reconnaissance, patrol, precision strike and other purposes. It has a long flight time, heavy payload capacity without need for flight runway. It is used as an unmanned tool for one unit penetration attack in war.

Parameters

Wing type	VTOL fixed wing (4 + 1 tail propulsion)	Body dimensions	4128mm(W)、1927mm(L)、749mm(H)
Takeoff weight	30 kg	Max. load	10 kg
Cruising speed	Economic 20~24 m/s	Max. speed	35~40 m/s
Max. control radius	30~80 km (optional)	Flight time	200 min (no load)
Sea level rise and fall rate	±4 m/s	Battery	30000mAh 6s*4pcs
Quiet scout altitude	300 m	Altitude ceiling	4500 m (±500 m)
Max. laser ranging	3000 m	Wind resistance	Level 7
Working temperature	-20~60℃	IP rating	IP54 light rain proof

Drone Platform / 4

10KG Payload | 80MIN Endurance | 1.6M Multirotor Drone

4 is a medium-sized multi rotor drone with heavy load and long flight time. The maximum load is 10kg, supporting RTK high-precision positioning system.

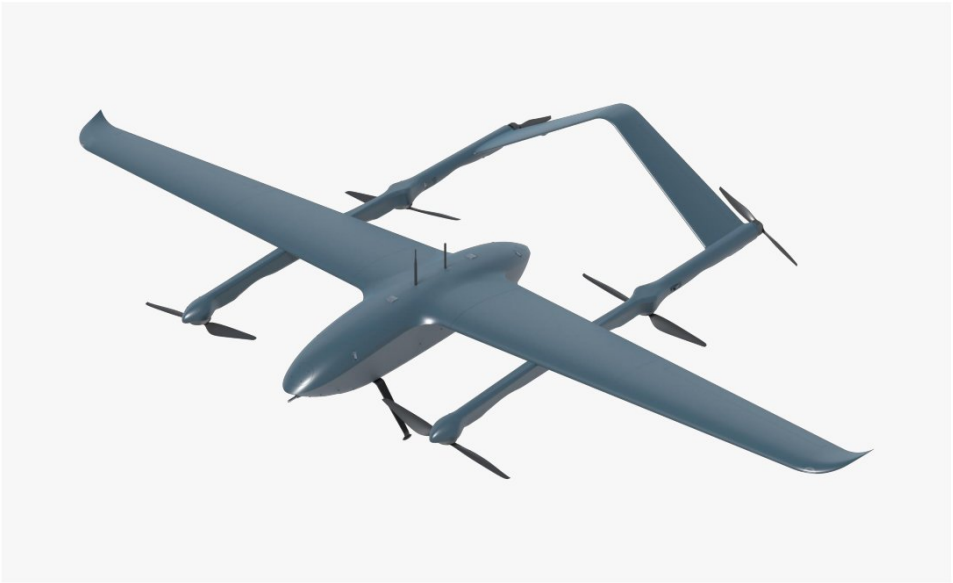
Parameters

Motor wheelbase/Axis number	1600 mm, six axes	Max. load	10 kg
Max. take-off weight	27 kg	Image transmission distance	20 km
Flight time	80 min (no load)	Bomb height	80~150 m
Bombing accuracy	≤2 m	Max. flight altitude	5000 m
Max. flying speed	15 m/s	Wind resistance	Level 6
Max. lifting speed (vertical)	±4 m/s	IP rating	IP54 light rain proof
Working temperature	-20~60℃	Operator	1 person
Loading caliber/quantity	Regular 82mm mortar × 4 / Regular 60mm mortar x 6		

Drone Platform 5

20KG Payload | 240MIN Endurance | 5M Eletric VTOL Fixed Wing Drone

5 is a medium and large unmanned bomber, with the characteristics of large bomb load and flight time. With a maximum load of 20kg and a flight time of up to 240 minutes, it adopts a double-tail brace layout, and the cruising flight uses 2 independent power systems and dual power backup.



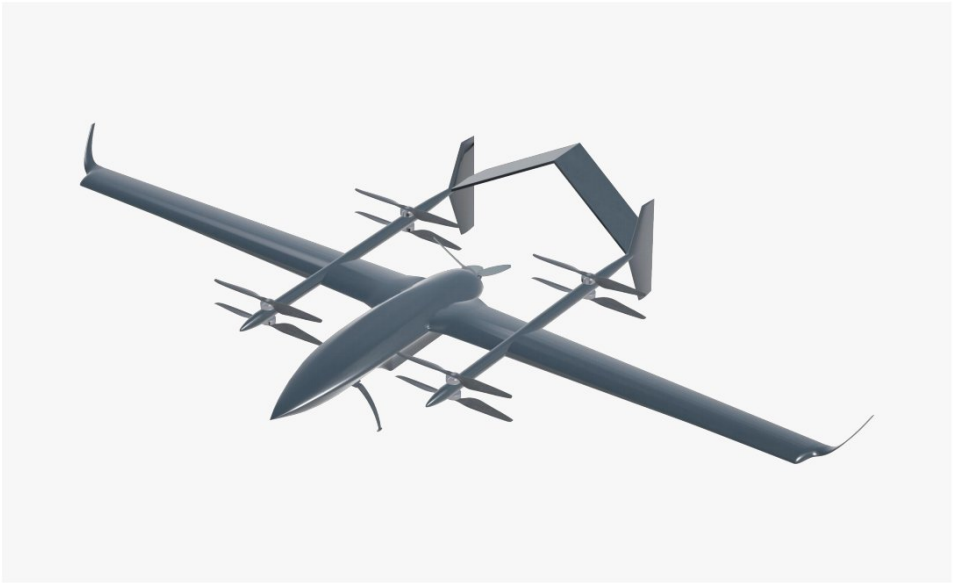
Parameters

Wing type	Compound wing (4+2)	Body dimensions	5018mm(W)、3580mm(L)、850mm(H)
Take-off weight	55 kg	Max. load	10~20 kg
Cruise speed	Economic speed 20~22 m/s	Max. speed	50 m/s
Max. control radius	30~80 km (optional)	Max. flight time	240 min (no load)
Sea level rise and fall rate	±5 m/s	Battery	30000mAh 6s*6pcs
Quiet scout altitude	300 m	Altitude ceiling	4500 m (±500 m)
Max. laser ranging	3000 m	Wind resistance	Level 7
Working temperature	-20~60℃	IP rating	IP54 light rain proof

Drone Platform / 7

50KG Payload | 360MIN Endurance | 6.1M VTOL Fixed Wing Drone

7 is a large VTOL fixed wing drone with characteristics of heavy payload, long flight time and fast flight speed. The Max. payload up to 50kg, flight time of 360 minutes, and Max. speed 126km/h.



Parameters

Wing type	VTOL fixed wing (X8+tail propulsion)	Body dimensions	6124mm(W)、3265mm(L)、700mm(H)
Takeoff weight	120 kg	Max. load	50 kg
Cruising speed	Economic 20~22 m/s	Max. speed	35 m/s
Flight time	360 min (no load)	Max. control radius	80 km (optional)
Battery	30000mAh 6s*10pcs	Sea level rise and fall rate	±5 m/s
Altitude ceiling	4500 m (±500 m)	Quiet scout altitude	500 m
Max. laser ranging	3000 m	Wind resistance	Level 7
Working temperature	-20 ~ 60℃	IP rating	IP54 light rain proof

Drone Platform 8

50KG Payload | 20MIN Endurance | Quadcopter Drone

8 is a large-capacity four-rotor drone with a snap-on locking structure for easy operation; and with a Z-shaped folding structure for flexible transport.

Parameters

Product material	Carbon fiber + Aviation aluminum	Number of rotors	Quadcopter
Expanded size	2845*2718*830 mm	Wheelbase	2272 mm
Folded size	1066*677*890 mm	Takeoff weight	96 kg
Max. load	50 kg	Positioning system	GPS(RTK can be upgraded)
Hovering accuracy	±0.5 m	Power system	FOC Efficient power system
Propeller size	42 inch folding propeller	Power battery	18s 30000mAh Battery
Remote control distance	20 km	Flight time	20 min (no load)
Flight speed	≤20 m/s	Rising speed	5 m/s
Wind resistance	Level: ≤7	Altitude	5000 m
Working temperature	20~60℃	IP rating	IP54

Drone Platform / 10

70KG Payload | 60MIN Endurance | Four-axis Eight-rotor Drone

10 is a heavy-duty four-axis eight-rotor drone, with high-strength carbon fiber integrated molded body, electric folding tripod, foldable storage part, pluggable battery, and quick-detachable payload connector.

Parameters

Product material	Carbon fiber + Aviation aluminum	Number of rotors	Quadcopter with 8 propeller
Expanded size	1587*1514*891 mm	Wheelbase	2039 mm
Folded size	860*860*850 mm	Takeoff weight	140 kg
Max. load	70 kg	Positioning system	GPS (RTK can be upgraded)
Hovering accuracy	±0.5 m	Power system	FOC Efficient power system
Propeller size	42 inch folding propeller	Power battery	16s 50400mah*2 Battery
Remote control distance	20 km	Flight time	60 min (no load)
Flight speed	≤20 m/s	Rising speed	5 m/s
Wind resistance	Level: ≤7	Altitude	5000 m
Working temperature	20~60℃	IP rating	IP54

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Payload / Daytime Camera

Dragon M7

Equipped with a 42 million HD orthophoto camera, it can take HD orthophoto images of target at a high altitude to quickly create centimeter-level maps for battlefield command and analyze targets in the middle and late stages.

Dragon V30S

Designed for daytime scenes, it has high-definition picture backhaul, 360° free rotation of the course, lock the target, and screen tracking.

Dragon V30 Lite

Designed for daytime scenes, it has high-definition picture backhaul, 360° free rotation of the course, lock the target, and screen tracking.

Functions	Dragon M7	Dragon V30S	Dragon V30Lite
With high-precision LOS stabilization function	•	•	•
With visible light imaging function	•	•	•
Equipped with infrared imaging capabilities	-	-	-
Capable of detecting and identifying ground targets	-	•	-
Quick and automatic target acquisition	-	•	-
With different working modes e.g. searching, tracking, locking, guiding etc.	-	•	-
With character overlay display function	-	•	-
With functions of taking pictures and recording videos	•	•	•
With GPS information recording for targets	-	•	-
With Optical zoom function	-	-	•
With Rapid mapping capabilities function	•	-	-

Visible light zoom camera	Dragon M7	Dragon V30S	Dragon V30Lite
Working wavelength	0.4 μm~0.9 μm		
Sensor	35.9*24.0mm	1/3"CMOS	1/3"CMOS
Effective pixels	42.4 million, 7952*5304	2.12 million	4 million
Resolution	1920 (H)*1080 (V)		
Focal length	35mm	5.1~50mm，optical 10 times continuous zoom	
Horizontal field of view	-	68°~6.7°	
Recognition distance	-	≥1km (target size 2.3m*2.3m)	-
Video	Equipped	-	2560*1440
Servo performance index			
Search scope	-	Azimuth axis n*360°/Pitch axis -40° ~ 90°	Azimuth axis 280°/Pitch axis -40° ~ 90°
Angle measurement accuracy	-	≤2mrad	
Stable accuracy	-	≤100μrad	
Angular velocity	-	≥60°/s	
Angular acceleration	-	≥60°/s²	
Track Performance Metrics			
Pixel deviation update rate	-	50Hz	-
Tracking speed	-	30 pixels/frame	-
Minimum tracking target size	-	4*3 pixels	-
Minimum target contrast	-	5%	-
Tracking position	-	any position in the field of view	-
The target tracking will not slip or be lost when the imaging rolls, zooms in and out	-	•	-
Electrical characteristics			
Communication interface	-	1 serial port	
Video interface	-	1 network port	
Power Characteristics			
Nominal DC voltage	-	12V	
Normal power supply voltage range	-	20V~28V	
Average power consumption	-	≤30W	
Peak power consumption	-	≤50W	
Structural parameters			
Weight	-	≤0.8kg	
Use environment			
Working temperature	-	-20℃~60℃	

• Equipped - Not Equipped

Payload / Night Camera

Dragon VT30

The Dragon VT30 EO + IR pod integrates visible light and thermal functions with day and night combat capabilities.

Dragon T50R

Dragon T50R IR+lidar pod can use drone to measure precise, meter-level distance of the target, and can be operated day and night.

Dragon VT1

Integrated light, infrared and lidar ranging, with day and night combat capabilities, can measure the precise distance of the target position through the UAV, providing meter-level target positioning.

Functions	Dragon VT30	Dragon T50R	Dragon VT1
With high-precision LOS stabilization function	•	•	•
With visible light imaging function	•	-	•
Equipped with infrared imaging capabilities	•	•	•
Capable of detecting and identifying ground targets	•	•	-
Quick and automatic target acquisition	•	•	-
With different working modes e.g. searching, tracking, locking, guiding etc.	•	•	-
With character overlay display function	•	•	•
With GPS information recording for targets	•	•	-
With self-check and fault diagnosis function	•	•	-
With laser radiation, distance measuring function	•	•	-
With picture taking and video recording function	-	-	•
Structural parameters			
Weight	≤1.2kg		≤0.5kg
Use environment			
Working temperature	-20℃~60℃		

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Visible light zoom camera	Dragon VT30	Dragon T50R	Dragon VT1
Working wavelength	0.4 μm~0.9 μm		
Sensor/Pixel size	Sensor 1/3"CMOS	Sensor 1/2.8"CMOS	Pixel size 1.12 um
Effective pixels	2.12 million		13 million
Resolution	1920 (H)*1080 (V)		
Focal length	5.1~50mm, optical 10 times continuous zoom	4.3~129mm, optical 10 times continuous zoom	3.5mm
Horizontal field of view	68°~6.7°	63.7°~2.3°	70.4°~39.6°
Recognition distance	≥1km (target size 2.3m*2.3m)	≥2.6km (target size 2.3m*2.3m)	-
Longwave Uncooled Infrared Imaging			
Working wavelength	8~14 μm	-	8~14 μm
Focal length	19 mm	-	9.1 mm
Detector	12 μm	-	12 μm
Resolution	640 (H)*512 (V)	-	640 (H)*512 (V)
Field of view	22.9°*18.4°	-	48.3°*38.6°
Recognition distance	≥600m (target size 2.3m*2.3m)	-	-
Laser photometer			
Working wavelength	-	905nm	-
Laser energy	-	≥25mJ	-
Ranging performance	-	ranging range: 120m~3km	-
Ranging accuracy	-	≤2m	-
Accuracy rate	-	≥98%	-
Irradiation performance	-	coding method: precise frequency code	-
Irradiation mode	-	The duration of one irradiation is not less than 20s	-
Servo performance index			
Search scope	Azimuth axis: n*360°/Pitch axis: -40° ~ 90°		Azimuth axis: 280°/Pitch axis: -40° ~ 90°
Angle measurement accuracy	≤2mrad		
Stable accuracy	≤100μrad		
Angular velocity	≥60°/s		
Angular acceleration	≥60°/s²		
Track Performance Metrics			
Pixel deviation update rate	50Hz		-
Tracking speed	30 pixels/frame		-
Minimum tracking target size	4*3 pixels		-
Minimum target contrast	5%		-
Tracking position	any position in the field of view		-
The target tracking will not slip or be lost when the imaging rolls, zooms in and out	•		-
Electrical characteristics			
Communication interface	1 serial port		
Video interface	1 network port		
Power Characteristics			
Nominal DC voltage	12V		
Normal power supply voltage range	20V~28V		
Average power consumption	≤30W		
Peak power consumption	≤50W		

• Equipped - Not Equipped

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Payload / Radar Ranging Camera

Dragon VT30R

The Dragon VT30R EO+IR+lidar pod integrates visible light, thermal and lidar distance measuring function, which can use drone to measure precise, meter-level distance of the target, and can be operated day and night.

Dragon V360R

The EO+IR+lidar pod integrates visible light, thermal and lidar distance measuring function, which can use drone to measure precise, meter-level distance of the target, and can be operated day and night.

Dragon VT360R

The EO+IR+lidar pod integrates visible light, thermal and lidar distance measuring function, which can use drone to measure precise, meter-level distance of the target, and can be operated day and night.

Functions	Dragon VT30R	Dragon V360R	Dragon VT360R
With high-precision LOS stabilization function	•	•	•
With visible light imaging function	•	•	•
Equipped with infrared imaging capabilities	•	-	-
Capable of detecting and identifying ground targets	•	•	•
Quick and automatic target acquisition	•	•	•
With different working modes e.g. searching, tracking, locking, guiding etc.	•	•	•
With character overlay display function	•	•	•
With GPS information recording for targets	•	•	•
With self-check and fault diagnosis function	-	•	•
With laser radiation, distance measuring function	-	•	•
With picture taking and video recording function	•	-	•
Visible light zoom camera			
Working wavelength	0.4 μm~0.9 μm		
Sensor	1/2.8"CMOS		
Effective pixels/Pixel size	Effective pixels 2.12 million		Pixel size 2.8 μm
Resolution	1920 (H)*1080 (V)		
Focal length	4.3~129mm, optical 10 times continuous zoom		4.3~129mm, optical 30 times continuous zoom
Horizontal field of view	63.7°~2.3°		
Recognition distance	≥2.6km (target size 2.3m*2.3m)		≥4km (target size 3m*6m)

Longwave Uncooled Infrared Imaging	Dragon VT30R	Dragon V360R	Dragon VT360R
Working wavelength	8~14 μm	-	8~14 μm
Focal length	19 mm	-	35 mm/F1.0
Detector	12 μm	-	12 μm
Resolution	640 (H)*512 (V)	-	640 (H)*512 (V)
Field of view	22.9°*18.4°	-	12.4°*9.9°
Recognition distance	≥600m (target size 2.3m*2.3m)	-	≥1000m (target size 3m*6m)
Laser photometer			
Working wavelength	905 nm		1535 nm
Laser energy	≥25 mJ		-
Ranging performance	Ranging range: 120 m~3 km		-
Anging accuracy	≤2 m		±1 m
Ranging frequency	-		5 Hz
Laser ranging distance	-		50~3000 m
Accuracy rate	≥98%		-
Irradiation performance	coding method: precise frequency code		-
Irradiation mode	The duration of one irradiation is not less than 20s		-
Servo performance index			
Search scope	-	Azimuth axis: n*360°/Pitch axis: -40° ~ 90°	Azimuth axis: n*360°/Pitch axis: -10° ~ 110°
Angle measurement accuracy	-	≤2mrad	
Stable accuracy	-	≤100μrad	
Angular velocity	-	≥60°/s	≥50°/s
Angular acceleration	-	≥60°/s²	≥90°/s²
Track Performance Metrics			
Pixel deviation update rate	-	50Hz	
Tracking speed	-	30 pixels/frame	
Minimum tracking target size	-	4*3 pixels	
Minimum target contrast	-	5%	
Tracking position	-	any position in the field of view	
The target tracking will not slip or be lost when the imaging rolls, zooms in and out	-	•	
Electrical characteristics			
Communication interface	-	1 serial port	
Video interface	-	1 network port	
Power Characteristics			
Nominal DC voltage	-	12V	
Normal power supply voltage range	-	20V~28V	
Average power consumption	-	≤30W	
Peak power consumption	-	≤50W	
Structural parameters			
Weight	-	≤1.2kg	
Use environment			
Working temperature	-	-20°C~60°C	

• Equipped - Not Equipped

Payload / **Laser Designator Camera**

Dragon VT360RL

The Dragon VT360RL pod integrates visible light, thermal imaging and lidar distance measurement and can use drone to measure precise meter-level target positioning wth day and night combat capabilities.

Functions	Dragon VT360RL
With high-precision LOS stabilization function	•
With visible light imaging function	•
Equipped with infrared imaging capabilities	•
Capable of detecting and identifying ground targets	•
Quick and automatic target acquisition	•
With different working modes e.g. searching, tracking, locking, guiding etc.	•
With character overlay display function	•
With GPS information recording for targets	•
With self-check and fault diagnosis function	•
With laser radiation, distance measuring function	•
Visible light zoom camera	
Working wavelength	0.4 μm~0.9 μm
Sensor	1/2.8"CMOS
Effective pixels/Pixel size	2.8 μm
Resolution	1920 (H)*1080 (V)
Focal length	4.3~129mm，optical 30 times continuous zoom
Horizontal field of view	63.7°~2.3°
Recognition distance	≥4km (target size 2.3m*2.3m)
Longwave Uncooled Infrared Imaging	
Working wavelength	8~14 μm
Focal length	35 mm / F1.0
Detector	12 μm
Resolution	640 (H)*512 (V)
Field of view	12.4°*9.9°
Recognition distance	≥1000m (target size 2.3m*2.3m)
Laser photometer	
Working wavelength	1064 nm
Laser energy	≥25 mJ
Ranging performance	Ranging range：120 m~5 km
Ranging accuracy	≤3 m
Accuracy rate	≥98%
Irradiation performance	coding method: precise frequency code
Irradiation mode	The duration of one irradiation is not less than 20s

• Equipped – Not Equipped

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Device / **Counter Device Reverse Detection**

TDOA 10

It can detect and locate the anti-drone system within a 10-kilometer measurement and control range, and guide the later artillery to attack. It can provide functions such as radio monitoring, identification and positioning of UAV countermeasure equipment, and walking track tracking.

Features	TDOA 10
High security	Actively detect and counter system to avoid
Flexible control	Can be mounted on different UAV flight platforms
Parameter	
Size(L*W*H)	260mm*260mm*637mm
Weight	≤10kg
Working temperature	-20~55℃
Probe site power consumption	≤50W
System power supply	220V AC / 12V DC
Networking form	Optical fiber, router, bridge
Working mode	Passive detection multi-point TDOA positioning
Object of action	Radio interference countermeasure equipment
Coverage angle	Azimuth 0°~360° Elevation 0°~90°
Detection distance	≥5km (open and unobstructed area)
Working frequency	100MHz~6GHz (including but not limited to 400MHz、500MHz、800MHz、900MHz、1.2GHz、1.4GHz、2.4GHz、5.1GHz、5.8GHz、5.9GHz)
Location Tracking	
Refresh time	≤1s
Positioning accuracy	≤50m
Positioning and tracking speed	0m/s~30m/s
Simultaneous positioning quantity	≥5
Positioning height range	0m~500m

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GCS / LS1

LS1 Drone Ground Control Station

It has the functions of HD image retrieval, flight path planning, flight mode adjustment, flight status acquisition, drone payload control, etc; In order to improve the service performance under harsh environment, the industrial IP rating level is up to IP54; The remote control design has built-in modules such as long-distance communication radio, HD image receiver, large independent display screen, high-performance industrial computer motherboard, etc.

Features	LS1 Drone Ground Control Station
High Integration	Integrated design from remote control, load control to route planning, etc
Long Endurance	Built-in smart battery, battery life up to 4 hours
HD Display	Double-screen display: 15.6-inch HD image upper screen and 12.1-inch HD lower screen, brightness up to 1500nits
High Performance	Powerful industrial computer motherboard, Win10 system and high-performance Intel i7 processor
High IP Rating	Protective level up to IP54
Parameters	
Weight	8.4kg
Dimension	L307.5 * W407.5 * H102mm
Housing	Aluminum alloy+rubber
Fixed	Quick-release tripod
Battery	18650 battery, 13Ah; Duration 4 hours
Video output	external USB to HDMI
Working temperature	-20~60℃
Storage temperature	-20~70℃
Computer	Intel Core Processor i7_ 6650U; Memory 8G (expandable); 128G solid-state hard disk supports 1T expansion at most
Display	15.6-inch image display on display screen, resolution 1920 * 1080; 12.1 inch computer display, brightness 1500nits

GCS / LS2

LS2 Mobile Ground Station

LS2 integrates a brand-new video transmission system, so that the video transmission distance can reach 20 kilometers, and supports dual control functions, which can realize separate control of the aircraft and the mount. The product has built-in GPS built-in 4G module, wired and wireless projection screen and other special functions.

Features	LS2 Mobile Ground Station
HD Video Transmission	1080P HD video transmission, 20km transmission distance
Long Battery Life	Up to 3.5 hours of battery life with removable battery
Master-slave Dual Control	Two GCS to support one drone system
Open Source Interface	Open source ground station software and SDK interface
Multiple Input	Simultaneous access of both HDMI and network video
Parameters	
Weight	530g
Size	218mm*106mm*32mm
Shel	Plastic
system	Android
Battery	two 18650
Display	5.5 inches; 1000nits brightness; 1080P
Working power	6W
Communication distance	20km
Video transmission antenna	2.4GHz

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Bomb Release Gear / **Wyvern**

Wyvern bomb release gear is a bomb dropping device designed for mortars, using a reliable and stable caliper fixed structure, which can be loaded with one button, with a safety pin, which can trigger the bomb drop through the lever device of the remote ground station, or the automatic delivery of the route.

Features	Wyvern
Stable Structure	Caliper-fixing structure, adaptable to various dimensions
One-key Operation	Support one-key operation with safety pin
Remote Control	Support ground control station remote trigger bombing
Auto Dropping	Support automatic generation of bomb-dropping routes
Parameters	
Bomb Caliber/Weight	82mm(3.1kg) / 60mm(1.6kg) / 120mm(13.5kg)
Loadable Quantity	The number is optional, depending on the capacity of the aircraft
Dropping Method	Automated route/manual
Loading Method	gear calipers
Safety device	latch
Material	aluminum alloy + carbon plate

Datalink / **MD80/AD80**

MD80

MD80 drone data link has a transmission distance of up to 80km, and can effectively avoid interference from any counter-drone system and improve flight safety."

AD80

AD80 drone data link has a transmission distance of up to 80km, and can effectively improve the stability of data transmission with the use of its tracking antenna as well as effectively avoid interference from any counter-drone system and improve flight safety.

Features	MD80	AD80
High Integration	Integrated design to improve transmission stability	
Stable Performance	Fast cooling design to improve performance stability	
High Reliability	Data encryption, decoding and transmission to ensure information security	
Avoidance of Counter Measures	With function of automatically evading counter drone system to improve flight safety	
80 km+ Video Transmission Distance	Industry-leading transmission distance of more than 80km"	
Antenna Tracking	-	Tracking antenna to improve the stability of data transmission
Parameters		
Working frequency	1.4GHz	
Channel bandwidth	5/10/20MHz	
Output power	33dBm±1dB	
Communication distance	80-100km	
Air rate	30Mbps@20MHz	
Power consumption	≤10W	