T3 Four-rotor Drone



Instruction

Four-rotor small UAV, support thermal imaging and visible light dual imaging, with flexible deployment capabilities, support up to 15KM high-definition remote image transmission. The fuselage is equipped with 12 visual sensors, integrating 19 groups of sensors such as the main camera, ultrasound, IMU, etc., to build 3D maps and plan paths in real time, not only perception, but also multi-angle obstacle avoidance, easily traversing complex areas such as jungles, mountains, cities, and escorts for flight missions.

Function Features

01 Thermal imaging camera

Equipped with 640*512 high-resolution infrared thermal imaging camera, with 13mm focal length lens and 16x digital zoom function, easy to observe distant targets. The imaging system uses a new image processing algorithm to make the details of thermal imaging more clear.

03 15km HD Transmission

Support 2.4GHz/ 5.8GHz/900MHz* three frequency band transmission, bring up to 15km image transmission distance, 1 km image transmission quality can reach 2.7K; And according to the actual environment can adapt to switch the transmission frequency band, to ensure the signal transmission is stable and smooth, for the shooting operation escort.

05 Portable design efficient & practical

The folding fuselage, ready to use, only 45 seconds from boot to take off, more powerful flight performance to ensure the efficient execution of tasks.

02 Visible light camera

Support 50 million pixel visible light imaging, discover more details, assist in forensics, and achieve accurate judgment. Using the super sensitive algorithm 2.0, it can still shoot clean and clear 4K night scene video under low light conditions.

04 Six-way binocular omnidirectional obstacle avoidance

The fuselage is equipped with 12 visual sensors, integrating 19 sensors such as the main camera, ultrasound, and IMU, to build 3D maps and plan paths in real time, not only perception, but also multi-angle omnidirectional obstacle avoidance, easily traversing jungle, mountains, cities and other complex areas, escorts the flight mission.

06 Excellent performance

Support 38 minutes long endurance, 15 km ultra remote image transmission, 20 m/s maximum flight speed, 920 grams maximum load

Product Specification

	Weight(with propeller&battery)	1209 g
	Max Takeoff weight	1999 g
	Dimension	457*558*108mm (Flod) 230*130*108mm (Unflod)
	Wheelbase	397 mm
	Max takeoff height	7000 m
	Max ascent speed	8 m/s
	Max descent speed	4 m/s
	Max horizontal flight speed	20m/s
	Max range	22 km
Aircraft	Max angular velocity	120°/s
	Max tilt Angle	33°
	Max flight time	38 min
	Max hover time	33 min
	Max wind resistance	12m/s
	Positioning system	GPS/GLONASS/Galileo/BDS
	Operating ambient tem	-10°C ~ 40°C
	On-machine storage	8GB
	SD Card storage	Support 256GB (Class 10 or UHS-3)
PZT	Stable system	Triaxial stability
	Mechanical range	Pitch Angle: -135° to +45° Course: -100° to +100°
	Controllable rotation range	Pitch Angle: -90°to +30° Course: -90°至+90°
	Max control speed	300°/s (Tilt)
	Angular jitter	±0.005°

Product Specification

	Video resolution	640x512@25fps
Infrared camera	Tideo resolution	Visual Angle: H33°V26°
	Lens	Focus Distance: 13mm
	Temperature range	High-gain mode:-20° to +150° Low gain mode:0° to +550°
	Temperature measurement accuracy	±3°C or ±3% @Ambient temperature -20°C~60°C
	Accurate temperature measurement distance	2-20m
	Video resolution	3840x2160P60/P50/P48/P30/P25/P24 2720x1528P60/P50/P48/P30/P25/P24 1920x1080P120/P60/P50/P48/P30/P25/P24
	Sensor	1/1.28 in CMOS, 50 megapixels
Visible light camera	Lens	FOV: 85° Equivalent focal length: 23 mm Aperture: f/1.9
	Zoom	4X
	Max photo size	8192*6144 (4:3) 4096*3072 (4:3) 3840x2160 (16:9)
	Capacity	7100 mAh
	Voltage	11.55 V
	Battery type	LiPo 3S
	Energy	82 Wh
Battery	Total battery weight	365 g
Бацегу	Charging ambient temperature	5°C to 45°C
	Storage temperature &humidity	-10~30°C, 65±20%RH
	Recommended storage temperature	22-28°C
	Maximum charge consumption	93W
	Charging time	90min

Product Specification

	Operating Frequency	902-928MHz (FCC) 2.400-2.4835GHz 5.725-5.850GHz FCC: 15km
	Signal Distance	CE: 8km
	Screen	2048x1536 60fps
Remote Controller	Battery	5800mAh
Controller	Endurance time	2.5Hours (Max brightness) 4.5Hours (50% brightness)
	Charging time	90min
	Storage	ROM 128GB
Perception System	Perceptual system	Omnidirectional binocular perception system
	Front perception	Measuring range: 0.5 - 18 m Effective perceived speed: < 12m/s Visual Angle: Horizontal: 60°, Vertical: 80°
	Rear perception	Measuring range: 0.5 - 16 m Effective perceived speed: < 12m/s Visual Angle: Horizontal: 60°, Vertical: 80°
	Upper perception	Measuring range: 0.5 - 10 m Effective perceived speed: < 5m/s Visual Angle: Horizontal: 65°, Vertical: 50°
	Down perception	Measuring range: 0.5 - 10 m Effective perceived speed: < 5m/s Visual Angle: Horizontal: 100°, Vertical: 80°
	Left-right perception	Measuring range: 0.5 - 10 m Effective perceived speed: < 5m/s Visual Angle: Horizontal: 65°, Vertical: 50°

Application scenario

Widely used in power, fire, law enforcement, search and rescue, chemical, photovoltaic and other fields and industries.

Spare Parts (Optional)



Neight Light

Dimension	39*72*34 mm
Work Range	5000 m
Luminous intensity	Max 486cd; Average 290cd



Speaker

Dimension	46*80*77 mm
Adjustable Angle	0°~45°
Max Decibel	120dB



Searchlight

Dimension	48.5*72*63 mm
Work Range	30 m
Illumination Intensity	11lux @ 30m Direct light