

DHI-UAV-X487-4T

Quadcopter Light UAV



Product Introduction

X487-4T series UAV adopts advanced flight control algorithm, camera processing algorithm, PTZ stability enhancement algorithm, visual AI algorithm, integrated omnidirectional obstacle avoidance system, high-precision RTK system, visual positioning system, with automatic cruise, AI intelligent identification and tracking, automatic return, automatic precision landing and other autonomous flight capabilities. With vision-aided positioning, visual omnidirectional obstacle avoidance and other functions, it can ensure the safer and more stable flight of the UAV. The fuselage is collapsible for easy storage and carrying, to meet the complex application requirements in different industries and different scenarios.

Feature

- Flagship image performance, 8k wide Angle, HD zoom, inspection tool
- 10X optical zoom, 160X hybrid zoom, easy to zoom far and near
- Integrate powerful AI capabilities to make it smarter
- Thermal resolution 1280*1024, 32x digital zoom, Precise laser ranging 1500m.
- Omnidirectional perception, safe flight
- Maximum flight speed 21m/s, wind resistance 12m/s
-
- Compact and portable, master in one hand, easy to carry.
Rich accessories, unlimited potential.

Parameter

Aircraft	Size	175*272*148mm (folded) 613*699*160mm (unfolded)
	Net weight	1960g
	Max takeoff weight	2300g
	Diagonal Wheelbase	486mm
	Max flight time(no wind)	41mins
	Max horizontal speed	21m/s
	Max ascent speed	8m/s
	Max descent speed	6m/s
	Maximum service ceiling altitude	7000m
	Ingress Protection Rating	Ip43
	Max wind resistance	12m/s
	Operating frequency	2.4 GHz-2.4835 GHz 5.15 GHz-5.875 GHz
	Transmission power	(EIRP) < 28dBm
	Hovering accuracy	Vertical: ±0.1 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK) Horizontal: ±0.3 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK)
GNSS	GPS + GALILEO + GLONASS+BEIDOUO	
Visual Sensing system	Forward: 0.2~50mFOV: 60°(H), 80°(V) Backward: 0.2~50mFOV: 60°(H), 80°(V) Upward: 0.2~50mFOV:360°(H), 190°(V) Downward: 0.2~50mFOV:360°(H), 190°(V) Left and right: 0.2~50mFOV:60°(H), 80°(V)	
Visible light camera Wide Camera	Sensor	1/0.98-inch CMOS, Effective pixels: 50 MP
	FOV	80°
	Aperture	f/2.8
	Focus range	3m ~ ∞
	Equivalent focal length	25 mm

	ISO range	Auto: Photo: ISO100~ISO6400 Video: ISO100~ISO6400 Manual: Photo: ISO100~ISO25600 Video: ISO100~ISO25600
	Photo resolution	8000×6000
	Photo format	JPEG
	Video resolution	H264/H265, 7264x4086@15fps 3840x2160@30fps/60fps, 1920x1080@30fps
	Video format	MP4

Huafei Intelligent Technology Co., LTD

Parameter

Visible light camera Zoom Camera		1/2-inch CMOS, Effective pixels: 48 MP 25°- 9.7°
	Aperture	f/3.7-f/4.2
	Focus range	5m ~ ∞
	Equivalent focal length	96mm-240mm
	ISO range	Auto: Photo: ISO100~ISO11200 Video: ISO100~ISO11200 Manual: Photo: ISO100~ISO25600 Video: ISO100~ISO25600
	Zoom	10x Optical Zoom, 160x Hybrid Zoom
	Photo resolution	8000×6000

	Photo format	JPEG
	Video resolution	H264/H265, 7264x4086@15fps 3840x2160@30fps/60fps, 1920x1080@30fps
	Video format	MP4
Thermal camera	Sensor	Uncooled VOx Microbolometer
	FOV	DFOV: 80°
	Sensor resolution	1280*1024
	Pixel size	12 um
	Lens Focal length	14mm
	Wavelength range	8-14 μm
	Temperature measurement accuracy	±2° C or ±2% (using the larger value)
	Temperature range	-20° ~ 150° C (-4° to 302° F, High Gain Mode) 0° ~ 550° C (32° to 932° F, Low Gain Mode)
	Zoom	32x
	Photo resolution	1280*1024
	Photo format	JPEG (8 bits) R-JPEG (16 bits)
	Video resolution	1280*1024@30fps
	Video format	MP4 (MPEG-4 AVC/H.264)
Laser Rangefinder	Measurement range	10-1500m
	Measurement accuracy	±(1m+*D0.15%)

Application Scenarios

The compact body is widely used in power inspection, smart city, ecological environmental protection, emergency rescue, smart park, activity security, terrain mapping, etc.