

Quadrotor UAV



Product Introduction

Equipped with SONY 20 megapixel super-sensitive CMOS sensor, supporting the shooting of 6K/30FPS video quality, with greater dynamic range, stronger noise suppression ability, higher frame rate, outsole high image quality, achievement of extraordinary images. The camera is equipped with F2.8~F11 adjustable aperture, whether in bright or dim light environment, you can adjust the aperture to obtain excellent image performance.

Features

- The super sensitive algorithm is better for night photography

Based on the super sensitive algorithm, VIZI400HMT-K will automatically significantly increase the ISO (up to 44,000) when shooting night scene videos, while reducing the noise processing of the screen, users do not need to move to set the shutter speed, you can straight out clean, bright, noise-free night video. Achieve 4K HDR video shooting, when shooting scenes with strong contrast between light and dark, automatically balance overexposure or under exposure, complete light and dark details, and restore the real world.

- Rich smart photography features

Whether using time-lapse photography to record the changes of time and space; Or take a panoramic photo to capture the surrounding scene. In addition, there are intelligent tracking and intelligent surround functions, which greatly improve the freedom of creation.

- 15 km HD remote photo transmission

Adopt high-precision image transmission technology, support the transmission of 2.4GHz/5.8GHz/900MHz in three frequency bands, bring the image transmission distance up to 15km, and the image transmission quality can reach 2.7K within 1 km; 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.

Parameter

VIZIONTECH

Aircraft	Net weight	1187g(with battery and gimbal)
	Max. takeoff weight	1999g
	Size	457*558*108mm (unfolded with propeller) 230*130*108mm (folding with propeller)
	Wheelbase	397mm
	Max. ascent speed	8m/s
	Max. descent speed	4m/s
	Max. horizontal speed	20m/s (19m/s when operating in EU regions)
	Max. takeoff altitude	7000m
	Max. flight time	40mins(no wind) 34mins (Loud Speaker built-in)
	Max. operation radius	7km
	Max. hovering time	35mins(no wind) 29 mins (Spotlight)
	Max. wind resistance speed	10.7 m/s
	IP	IP43
	Max. tilt angle	33°
	Max. angular velocity	120°/s
	Operating temperature	-10°C ~ 40°C
	Internal storage	8GB
	SD card	Standard with 64G SD card, up to 256 GB
	Max. transmission distance	15km (FCC); 8km (CE) (without interference)
	Operating frequency	900M: 902-928MHz(FCC/ISED) 2.4G: 2.400-2.476GHz(SRRC), 2.400-2.4835GHz 5.2G: 5.15-5.25GHz(FCC) 5.8G: 5.725-5.829GHz(SRRC), 5.725-5.850GHz
	Transmission power(EIRP)	900M: ≤30dBm (FCC/ISED) 2.4G: ≤30dBm (FCC/ISED) ; ≤20dBm (CE/SRRC/UKCA) 5.2G: ≤30dBm (FCC) 5.8G: ≤30dBm (FCC/ISED/SRRC) ; ≤14dBm (CE/UKCA)
	GNSS	GPS+Galileo+GLONASS single-colored positioning lights
	Hovering accuracy	Vertically: ±0.1 m (vision systems); ±0.5 m (GNSS); Horizontally: ±0.3 m (vision systems); ±1.5 m (GNSS)

Gimbal	Mechanical range Control capabilities	Pitch: -135° ~ 45° Heading: -100° ~ 100° Obstacle avoidance control assistance (support control while sitting in a moving car)
	Controllable range	-Pitch: -90° ~ 30° Heading: -90° ~ 90°
	Stable system	3-axis mechanical gimbal (pitch, roll, heading)
	Angular jitter	< 0.005°
	Max. control speed	300°/s(pitch)
Visible Zoom Camera	Sensor	1 inch CMOS, 20M
	Lens	FOV: 82° Equivalent focal length: 29mm Aperture: f/2.8~ f/11 Focusing distance: 0.5m ~ ∞
	ISO range	Photo: ISO100 ~ ISO6400 Video: ISO100 ~ ISO44000
	Shutter speed	Photo: 8s ~ 1/8000s; Video: 1s ~ 1/8000s
	Zoom	16X
	Max. photo resolution	5472*3648
	Max. video resolution	5472*3076
Visual Sensing System	Sensing range	Front: 0.5 ~ 18m, Rear: 0.5 ~ 16m Left and right : 0.5 ~ 10m; Up: 0.5 ~ 10m; Down: 0.5 ~ 16m
	FOV	Front & Rear: 60° horizontal, 80° vertical Up & Left & right : 65° horizontal, 50° vertical Down: 100° horizontal, 80° vertical
	Operating environment	Front/Rear/Left/Right: The surface has rich texture and sufficient light conditions (>15lux, indoor fluorescent lamp normal exposure environment) Up: The surface is diffuse and the reflectivity is >20% Down: The surface is diffuse and the reflectivity is >20%, adequate lighting conditions (>15lux, indoor fluorescent lamp normal irradiation ring)

Battery	Capacity	7100 mAh
	Voltage	11.55V
	Energy	82 Wh
	Battery type	LiPo 3S
	Charging temperature	5°C ~ 45°C
	Net weight	365g
	Charging time	90min
	Power adapter	Input: 100-240 V~50/60Hz

Application Scenarios

It is widely used in power inspection , emergency search and rescue , police law enforcement , geographical surveying and mapping , fire rescue and other industry scenarios .