

VS-UAP2030-GV6019-L15

30x 2MP Visible, 640x512 Thermal Imaging, Infrared Laser Range Finder, Trispectral Gimbal

This drone gimbal, with its 30X optical zoom starlight camera and 141mm telephoto lens, delivers unparalleled clarity and focus, even at extreme distances. The 640x512 high-definition thermal imaging and intelligent recognition tracking are complemented by a high-precision three-axis stabilization gimbal, ensuring steady and comprehensive coverage. The dual-layer physical vibration reduction and 360° rotation capability, along with a 1500-meter laser detection range, make it an essential tool for advanced surveillance and security operations.



Features

Intelligent identification tracking

Using deep learning, it can quickly perform intelligent recognition of people and vehicles, target tracking and many other AI functions

Excellent stability

The advanced 3-axis tilt stabilising PTZ works closely with the mounting platform, with a high-speed processor controlling the precise operation of the motors, compensating for every subtle movement, so that the camera maintains a stable shooting angle at all times.

360° rotation

The superior mechanical design structure achieves 360° dead-angle-free rotation, allowing free access to an uninhibited all-round view.

Wonderful Presentation

The 30x optical zoom Starlight-class telephoto camera, with a maximum focal length of 141mm and Sony Starvis sensor, can easily capture distant details and clearly present faraway views, whether it is day or night, and supports real-time tracking of targets and easily performs reconnaissance, surveillance and other tasks.

The infrared uncooled thermal imaging camera supports pseudo-colour switching, providing a multi-finding palette of white heat, black heat, rainbow, etc., adjusting the colours according to the scene to obtain a more recognizable thermal imaging image.

Equipped with 1500m laser ranging module, it can solve the target coordinates according to the laser ranging and UAV attitude information.

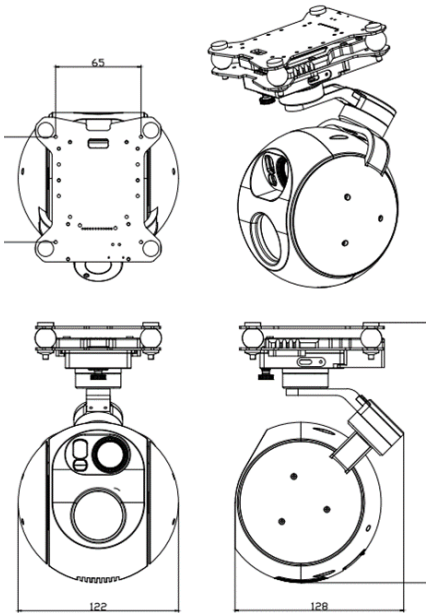
Technical Specs

Overall Parameters		
Dimensions	128(L)×122(W)×198(H) mm	
Weight	Pod	780g
	Shock Absorption	130g
Working Temperature	-20℃ ~ 45℃	
Storage	TF card (up to 128G, class 10, FAT32 or ex-FAT)	
Input Voltage	4S ~ 12S (15V ~ 60V)	
Control Signal	SBus, serial port, CAN, network port	
The Output Voltage	5V (connected to SBus)	
Dynamic Current	800 ~ 1200mA at 15V	
Working Current	900mA at 15V	
Video Output	IP (1080p/720p 30/60fps)	
Video Storage	MP4 (1080P 30fps/s)	
Photo Storage	JPG (1920*1080)	
PTZ Parameters		
Vibration Angle	Pitch/Roll	±0.01°
	Yaw	±0.01
Control Rotation Range	Pitch	-45° ~ 90°
	Yaw	±360°*N
Mechanical Rotation Range	Pitch	360°continuous rotation
	Roll	-130°~60°
	Yaw	±360°*N
Output Interface	GH1.25 interface: 4-core (network port), 5-core (serial port, can), 2-core (SBus) XT30 (power) power supply	
Operating Mode	Orientation lock, course following, one click down, one click to return to center	
Visible Parameters		
Image Sensor	Sony 1/2.8-inch "Exmor R" CMOS	
Focal Length	4.7~141mm	
Zoom Factor	30x optical zoom, 480x hybrid zoom	
Focus Speed	<1s	
Horizontal Viewing Angle	63.7° (W)~2.3° (T)	

signal-to-noise ratio	≥55dB
minimum illumination	Color: 0.01lux@F1.6
exposure control	Auto, manual, priority mode (shutter priority and aperture priority), brightness, EV compensation, slow AE
White Balance	Automatic, ATW, indoor, outdoor, one-touch WB, manual WB, outdoor automatic, sodium vapor lamp (fixed/automatic/outdoor automatic)
Shutter Speed	1/1 to 1/30000 seconds
BLC	support
Aperture Control	support
Defog	support
System Data Operating	support
Thermal Parameters	
Focal Length	19mm
Horizontal FOV	22.85°
Vertical FOV	18.37°
Diagonal FOV	29.02°
Operating Mode	Uncooled long wave (8 μm~14 μm) thermal imager
Detector Pixels	640*512
Pixel Size	12 μm
False Color Type	White hot, rainbow, lava, iron red, etc.
Synchronized Time	support
Infrared Laser Range Finder	
Scope	5~1500 meters
Working Current	80mA (max)
Beam	905nm pulsed laser
Divergence Angle	3mrad
Laser Pulse Frequency	1HZ
Power	<1mW (eye safety ensure)
Ranging Mode	pulse
Location Analysis	Latitude and longitude of target
EO/IR Target Tracking	
Deviation Update Rate	30Hz
Deviation Output Delay	<30ms
Minimum Focus Supported Ratio	5%
Minimum Supported Focus Size	16*16 pixels
Maximum Supported Target Size	256*256 pixels

Tracking Speed	<32 pixels/fps
Support Memory Time	100 fps
EO AI Recognition Performance	
Target Type	Human, vehicle
Simultaneous Detection Quantity	≥10 goals
Minimum Support Ratio	
Minimum Target Size	5 × 5 pixels
Vehicle Detection Rate	≥85%
False Alarm Rate	≤10%

Dimensions



Ordering Information

Model No.	Description
VS-UAP2030-GV6019-L15	30x 2M Visible, 640x512 Thermal Imaging, Laser Ranging Triple Optical Gimbal



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