

VS-UAP2010-GV6019-L15-P

10x 4MP Visible, 640x512 Thermal Imaging, Infrared Laser Range Finder and Laser Pointer Multi-spectral Gimbal

Outfitted with a 10X optical zoom starlight camera for detailed imaging, this drone gimbal ensures swift focusing and intelligent tracking. It boasts 640x512 high-definition thermal imaging, a 1200-meter laser rangefinder, and a 1000-meter laser illuminator. The high-precision three-axis stabilization gimbal, enhanced with dual-layer physical vibration reduction, offers seamless 360° rotation for comprehensive surveillance capabilities.



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 10x 2MP visible light camera can easily capture distant details and clearly present the distant view no matter it is day or night, supporting real-time tracking of the target and easily performing reconnaissance, surveillance and other tasks. The infrared uncooled thermal imaging camera supports pseudo-colour switching and provides multiple colour palettes such as white hot, black hot and rainbow, adjusting the colours according to the scene and obtaining more recognizable thermal imaging images.

Equipped with 1200m laser ranging module, it can solve the target coordinates according to the laser ranging and UAV attitude information.

Equipped with 1000m laser fill light, it can obtain clear images even in 0 Lux environment.

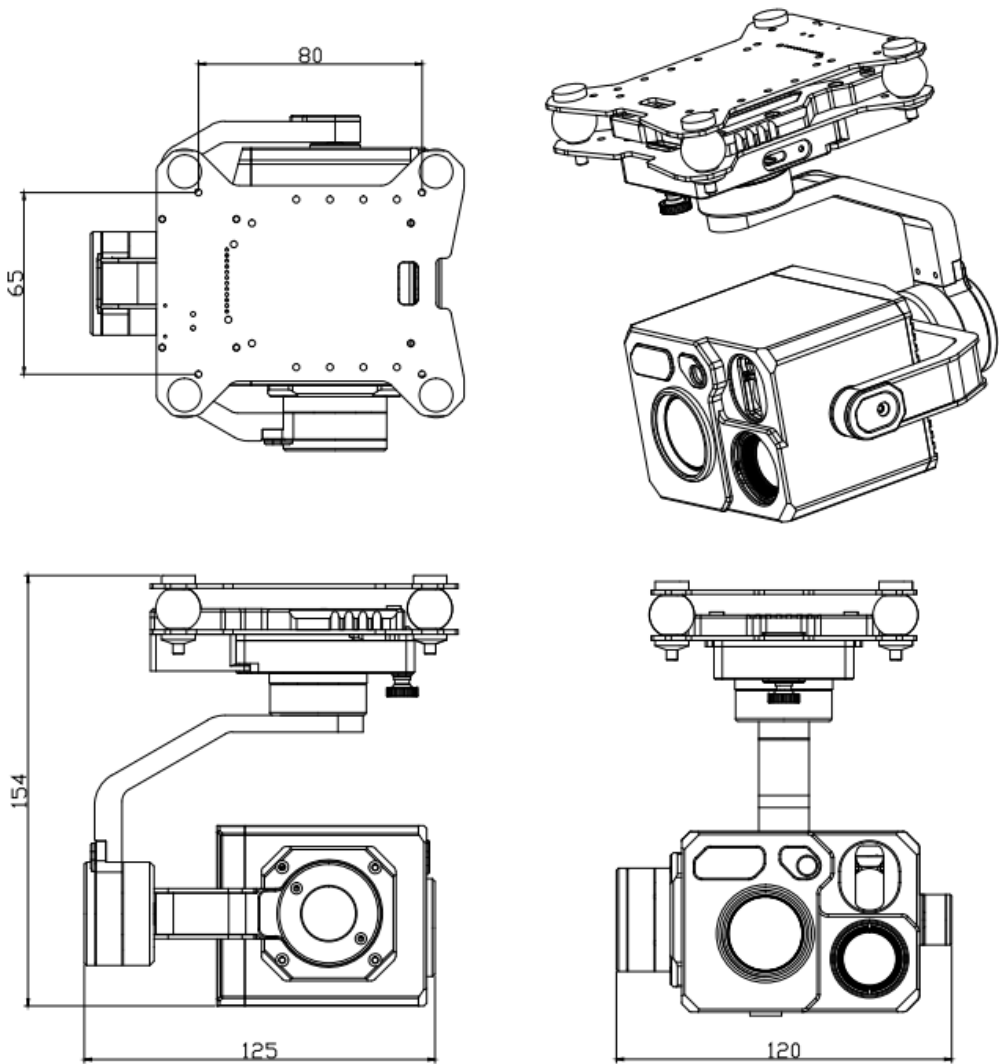
Technical Specs

Overall Parameters		
Dimensions	125(L)×120(W)×157(H) mm	
Weight	Pod	780g
	Shock Absorption	130g
Quick Release	support	
Working Temperature	-20℃ ~ 60℃	
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	-60° ~ 150°
	Roll	±70°
	Yaw	±360°*N
Output Interface	GH1.25 interface: 4-core (network port), 5-core (serial port, can), 2-core (SBus) XT30 (power)	
Operating Mode	Orientation lock, course following, one click down, one click to return to center	
Visible Parameters		
Image Sensor	Sony 1/2.8" CMOS	
Effective Pixels	2 million	
Focal Length	4.7~47mm	
Zoom Factor	10x optical zoom	
Focus Speed	<1S	

Horizontal viewing angle	1080p	69.9° (W)~8.7° (T)
Signal-to-Noise Ratio	≥55 dB	
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	automatic	
Defog	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.	
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	
Laser Pointer		
Power	50mW	
Color	green	
Indicate Distance	1000m (non-scorching sun, direct sunlight environment)	
Trigger on	support	
EO/IR Camera Target Tracking		
Deviation Update Rate	30Hz	

Deviation Output Delay	<30ms
Minimum Support Focus Support 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 Camera AI Recognition Performance	
Target Type	cars and people
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-UAP2010-GV6019-L15-P	10x visible, 640 IR, laser ranging, laser indication Multi-spectral Gimbal



For more info,visit
www.viewsheen.com

20th Floor, Block 9, Chunfeng Innovation Park
Binjiang, Hangzhou, China
Tel: +86-0571-88063872
sales@viewsheen.com
www.viewsheen.com

VISHEEN

Leader Provider of Long Range and Multispectral Cameras.



@Hangzhou ViewSheen
Technology Co., Ltd.



@Hangzhou ViewSheen
Technology Co., Ltd.



@viewsheentechnology
2921

© 2024 Hangzhou View Sheen Technology Co., Ltd. All rights reserved. Design and specifications are subject to change without notice.
The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.

Nov 2024 | Rev 1