



V-UAV



WhatsApp

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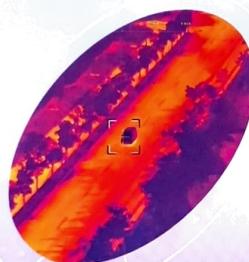
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SHENZHEN

# PROFESSIONAL ROBOTIC DEVICES MANUFACTURER

## Q1. 2025



**See the Unseen.**

# Hawkeye Series

V-UAV new generation of micro primes lens systems focus on the micro UAV application, combined the IR thermal sensor and high definition visual camera with V-UAV's leading stabilization and intelligence technology, the micro camera system is easy to realize powerful insights that save time, money and lives.



## U2

### Micro Prime Lens Dual EO Sensors Object Tracking Gimbal Camera

Imager sensor	1/3" CMOS
Lens 1	2.4mm Prime lens, FOV 98.5°×66.3°
Lens 2	10.36mm Prime lens, FOV 30°×17.1°
Resolution	1920x1080@30fps
Object Tracking	✓
Working voltage	12V
Output	IP
Control method	UART / S.BUS / TCP
N.W.	77g
Dimension	39*38.5*81.1mm



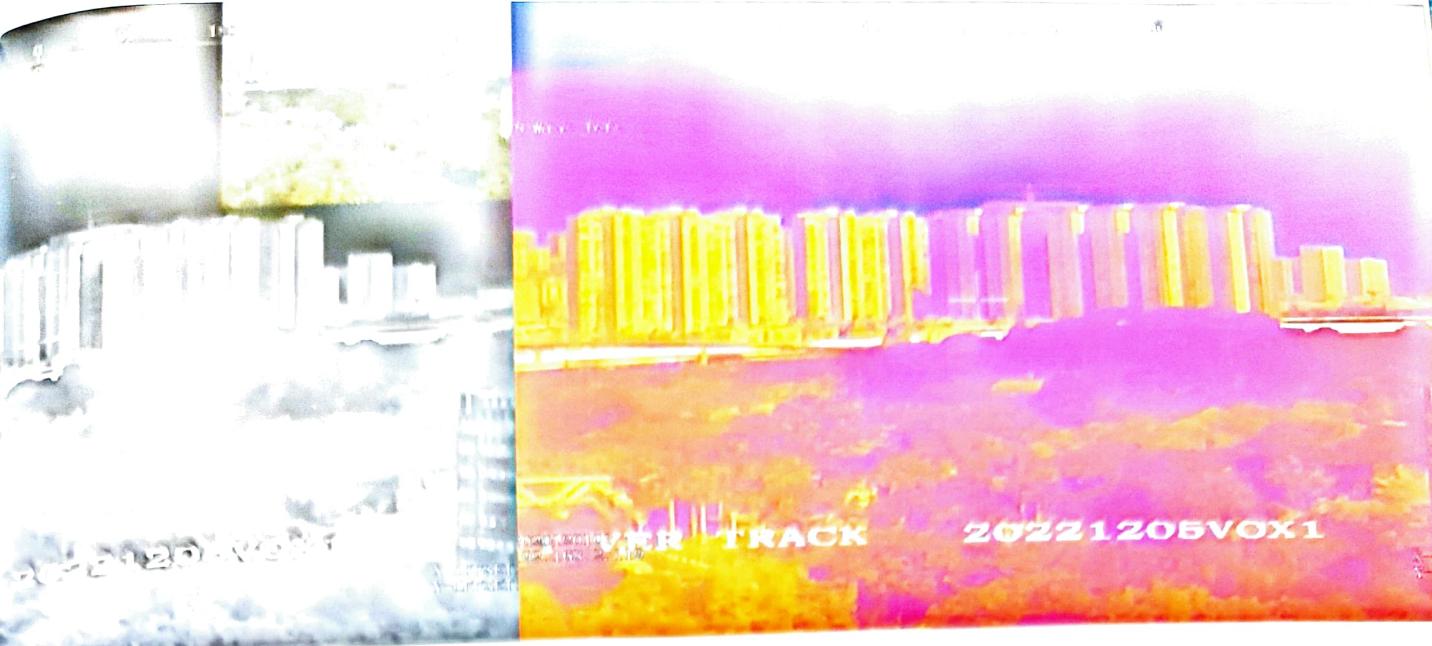
77g

## U818

### Micro Prime Lens EO/IR Object Tracking Gimbal Camera

Imager sensor	CMOS
Lens	8mm Prime lens, FOV 38.3°×22.1°
Resolution	1920x1080@60fps
IR Thermal imager	640x512@60fps, 18mm focus length, 12μm
Object Tracking	✓
Working voltage	12V
Output	IP
Control method	UART / S.BUS / TCP
Local storage	SD card up to 512G
N.W.	260g
Dimension	67.6*61.6*99.6mm





## U818M

**Micro Prime Lens EO/IR with LRF Object Tracking Gimbal Camera**

Imager sensor	CMOS
Lens	8mm Prime lens, FOV 38.3°x22.1°
Resolution	1920x1080
IR Thermal imager	640x512@60fps, 18mm focus length, 12μm
Laser range	5-1200m
Object Tracking	✓
Working voltage	12V
Output	IP
Control method	UART / S.BUS / TCP
Local storage	SD card up to 512G
N.W.	319g
Dimension	88*62.9*107.2mm



## Q818X

**Micro Prime Lens Dual EO+IR Triple sensor Object Tracking Gimbal Camera**

Lens 1	66°x40°(5.7mm)
Lens 2	26°x14°(16mm)
Resolution	2560x1440 @60fps
IR Thermal imager	640*512, 18mm focus length, 12μm
FOV	24°x18.1°
Object Tracking	✓
Working voltage	16V
Output	IP
Control method	UART/S.BUS/TCP/UDP
Local storage	SD card up to 512G
N.W.	210g
Dimension	62*65.9*99.8mm



# High-definition IR Thermal Gimbal Camera Series

1280\*1024 High-definition uncooled long-wave infrared detection thermal image sensor features of longer detection distance, digital zoom coaxiality, more accurate and stable performance. The invisible objects by the naked eye can be able to be transformed into visual images through infrared thermal imaging technology. It is mainly used in detection, inspection, search and rescue, and other applications in the unvisual environment of at night or dark environments, fires, smoke, etc.

## QIR50T Pro

HRT 1280

50mm High-definition IR Thermal Object Tracking Gimbal Camera (1280\*1024)

IR Thermal imager	50mm focus length
Resolution	1280*1024
Pixel pitch	12μm
Object Tracking	✓
Working voltage	4S~6S
Output	IP / SDI
Control method	UART / PWM / PPM / S.BUS / TCP / UDP
Local storage	SD card up to 512G
N.W.	943g
Dimension	112*136*181.3mm



## Q30TIR Pro

HRT 1280

30x EO/IR Dual Sensors High-definition IR Thermal Object Tracking Gimbal Camera (IR 1280\*1024)

Imager sensor	1/2.8" SONY CMOS
Lens	30x optical zoom, f=4.3~129mm
Total pixel	2.13MP
IR Thermal imager	1280*1024, 50mm focus length, 25Hz, 12μm
Object Tracking	✓
Working voltage	4S~6S
Output	IP / SDI
Control method	PWM / PPM / UART / S.BUS / TCP
Local storage	SD card up to 512G
N.W.	1282g
Dimension	120*140.9*212.2mm



**U30TIRM-HD****HRT 1280**

**30x EO Triple Sensors 1280\*1024 High-definition IR Thermal  
5KM LRF Object Tracking Gimbal Camera**

Imager sensor	1/2.8" SONY CMOS
Lens	30x optical zoom, f=4.3~129mm
Total pixel	2.13MP
IR Thermal imager	<b>1280*1024</b> , 50mm focus length, 12μm, 50Hz
Laser range	50~5000m
Object Tracking	✓
Working voltage	4S~6S
Output	IP / SDI
Control method	PWM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 512G
N.W.	1475g
Dimension	155*143.5*228.2mm

**Q40TIRM-HD****HRT 1280**

**40x EO Triple Sensors 1280\*1024 High-definition IR Thermal  
5KM LRF Object Tracking 3 Axis Gimbal Camera**

Imager sensor	1/2.8" Sony CMOS Sensor
Lens	40x, F=4.25~170mm
Total pixel	2.13MP
IR Thermal imager	<b>1280*1024</b> , 50mm focus length, 12μm, 50Hz
Laser range	50~5000m
Object Tracking	✓
Working voltage	4S~6S
Output	IP / SDI
Control method	PWM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 512G
N.W.	1512g
Dimension	145*146.9*228.2mm

**Q30TIRM-15100****HRT 1280**

**30x EO Triple Sensors 1280\*1024 High-definition IR Thermal  
10KM LRF Object Tracking Gimbal Camera (7X IR)**

Imager sensor	1/1.8 Type STARVIS CMOS
Lens	30x optical zoom, f=6.5~162.5mm
Total pixel	4.17MP
IR Thermal imager	<b>1280*1024, 15~100mm focus length</b> , 7x optical zoom, 12μm, 25Hz
Laser range	<b>50~10000m</b>
Object Tracking	✓
Working voltage	4S~6S
Output	IP / SDI
Control method	PWM / S.BUS / UART / TCP / UDP
Local storage	SD card up to 512G
N.W.	5120g
Dimension	236*266.7*325.5mm



# AI Object Tracking Series

The automatic target recognition technology uses computer vision to replace manual decision-making, and combines deep learning technology to extract and classify the targets in the field of view. Efficiently identify targets of interest, enhance the autonomy and intelligence level of UAV systems, weaken or even get rid of the dependence on operators. It reduces the operator's burden, shortens the reaction time of the entire system, improves the anti-interference capability, and provides accurate and reliable information for the next reconnaissance on the target. It supports the development of artificial intelligence vision applications, the rapid deployment of algorithms, and the unlimited expansion of applications.

## A609

### Micro Prime Lens EO/IR Dual Sensors AI Object Tracking Gimbal Camera

Imager sensor	1/2.9" CMOS
Lens	6mm Prime lens, FOV 50 x 28°, 12x digital zoom
Total pixel	2MP
IR Thermal imager	640x512, 9.1mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Object Tracking	✓
Working voltage	4S~6S
Output	IP
Control method	UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	190g
Dimension	52*69*96.2mm



## A609R

### Micro Prime Lens EO+IR+LRF Triple-sensor AI Object Tracking Gimbal Camera

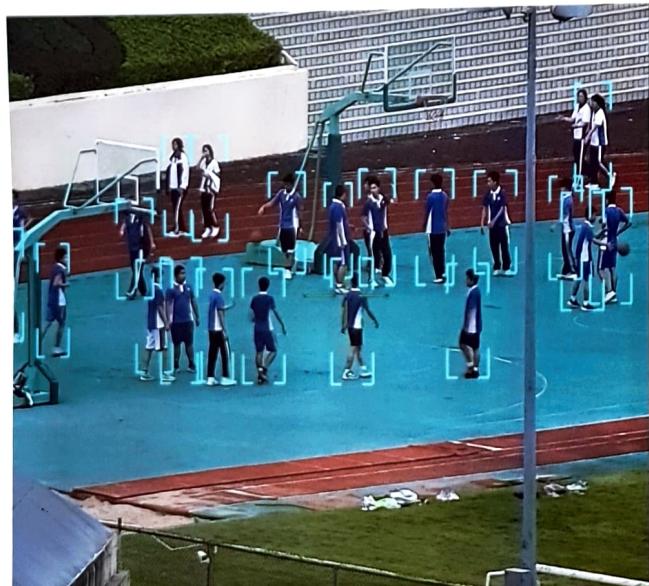
Imager sensor	1/2.9" CMOS Sensor
Lens	6mm Prime lens, FOV 50 x 28°, 12x digital zoom
Total pixel	2MP
IR Thermal imager	640x512, 9.1mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Laser range	5~1200m
Object Tracking	✓
Working voltage	16V
Output	IP
Control method	UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	235g
Dimension	62*78*106.2mm



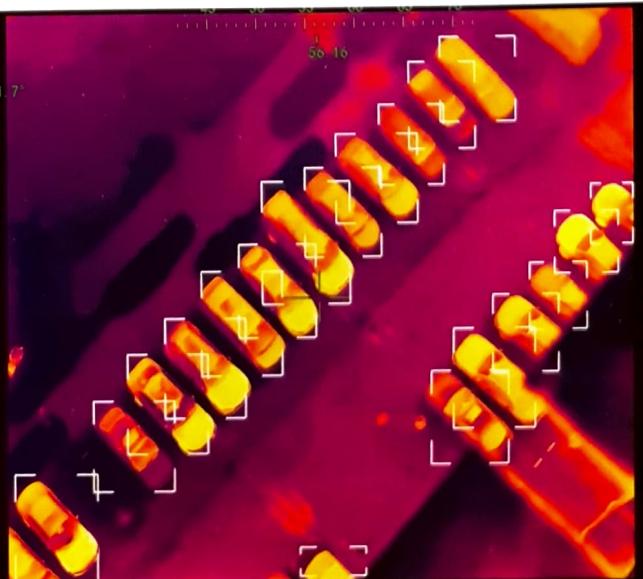
# A613

## Micro Prime Lens EO/IR Dual Sensors AI Object Tracking Gimbal Camera

Imager sensor	1/2.9" CMOS Sensor
Lens	6mm Prime lens, FOV 50 x 28°, 12x digital zoom
Total pixel	2MP
IR Thermal imager	640x512, 13mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Object Tracking	✓
Working voltage	4S~6S
Output	IP
Control method	UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	238g
Dimension	81*62*106.2mm



00:00:00  
00:22:59  
EO 1.6x FOV 41.7°  
IR 1.0x  
LRF 79.0 m  
REC 00:00:57  
-55  
-60  
-65 -65.43  
-70  
-75



## A10 Pro

### 10x EO AI Object Tracking Gimbal Camera

Imager sensor	1/2.8" SONY CMOS
Lens	10x optical zoom, f=4.7~47mm
Total pixel	5.13MP
AI Function	Human/Vehicle AI identification and tracking
Object Tracking	✓
Working voltage	4S~6S
Output	1080P micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	510g
Dimension	96*121.5*157.7mm



## A10T Pro

### 10x EO+IR Dual Sensors AI Object Tracking Gimbal Cameras

Imager sensor	1/2.8" SONY CMOS
Lens	10x optical zoom, f=4.7~47mm
Total pixel	5.13MP
IR Thermal imager	640*512, 19mm focus length, 25Hz, 12μm
AI Function	Human/Vehicle AI identification and tracking
Object Tracking	✓
Working voltage	4S~6S
Output	1080p micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	582g
Dimension	96*121.5*157.7mm



## A10TR Pro

### 10x EO+IR AI Object Tracking Target GPS Coordinate Calculation and LRF Gimbal Camera

Imager sensor	1/2.8" SONY CMOS
Lens	10x optical zoom, f=4.7~47mm
Total pixel	5.13MP
IR Thermal imager	640*512, 19mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Laser range	5~1500m
Object Tracking	✓
Working voltage	4S~6S
Output	1080p micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	654g
Dimension	100*114.7*174.2mm



## A20KTR

**20x EO 4K Triple Sensors AI Object Tracking Target GPS Coordinate Calculation and LRF Gimbal Camera**

Imager sensor	SONY 1/2.5" "Exmor R" CMOS
Lens	20x optical zoom, f=4.4~88.4mm
Total pixel	8.51MP
IR Thermal imager	640*512, 35mm focus length, 12μm, 25Hz
AI Function	Human/Vehicle AI identification and tracking
Laser range	50~3000m
Object Tracking	✓
Working voltage	4S~6S
Output	1080p micro HDMI / IP ( 4K )
Control method	PWM / S.BUS / UART / TCP / UDP
Local storage	SD card up to 256G ( 4K )
N.W.	998g
Dimension	130*161*201.8mm



## Mini H30T

**30x EO+IR+LRF Triple-sensor AI Object Tracking Gimbal Camera (Starlight level)**

Imager sensor	1/1.8" <b>STARVIS</b> CMOS
Lens	30x optical zoom, f=6.5~162.5mm
Total pixel	4.17MP
Lux	0.009 lux
IR Thermal imager	640*512, 19mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Laser range	5~1500m
Object Tracking	✓
Working voltage	4S~6S
Output	1080p micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	986g
Dimension	129.5*174*195.5mm



## A30T-50

**30x AI Object Tracking EO+IR Dual Sensors Gimbal Camera**

Imager sensor	1/2.8" SONY CMOS
Lens	30x optical zoom, f=4.3~129mm
Total pixel	2.13MP
IR Thermal imager	640*512, 50mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Object Tracking	✓
Working voltage	4S~6S
Output	1080p Micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	1202g
Dimension	128*139.5*214.2mm



## A30TR-50M

30x EO+IR AI Object Tracking Target GPS Coordinate Calculation and LRF Gimbal Camera

Imager sensor	1/2.8" SONY CMOS
Lens	30x optical zoom, f=4.3~129mm
Total pixel	2.13MP
IR Thermal imager	640*512, 50mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Laser range	50~5000m
Object Tracking	✓
Working voltage	4S~6S
Output	1080p Micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	1358g
Dimension	138*145.8*218.2mm



## A30TR-1575

30x EO+IR AI Object Tracking Target GPS Coordinate Calculation and LRF Gimbal Camera (5X IR)

Imager sensor	1/1.8 Type STARVIS CMOS
Lens	30x optical zoom, f=6.5~162.5mm
Total pixel	4.17MP
IR Thermal imager	640*512, 15~75mm focus length, 5X optical zoom, 12μm, 25Hz
AI Function	Human/Vehicle AI identification and tracking
Laser range	50~10000m
Object Tracking	✓
Working voltage	4S~6S
Output	IP
Control method	PWM / S.BUS / UART / TCP / UDP
Local storage	SD card up to 256G
N.W.	2300g
Dimension	190*232*246.5 mm



## A40 Pro

### 40x EO AI Object Tracking Gimbal Camera

Imager sensor	1/2.8" SONY CMOS
Lens	40x optical zoom, f=4.25~170mm
Total pixel	2.13MP
AI Function	Human/Vehicle AI identification and tracking
Object Tracking	✓
Working voltage	4S~6S
Output	1080p micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	905g
Dimension	118*134.5*193.8mm



## A40T Pro

### 40x EO+IR Dual Sensors AI Object Tracking Gimbal Cameras

Imager sensor	1/2.8" SONY CMOS
Lens	40x optical zoom, f=4.25~170mm
Total pixel	2.13MP
IR Thermal imager	640*512, 19mm focus length, 12μm
AI Function	Human/Vehicle AI identification and tracking
Object Tracking	✓
Working voltage	4S~6S
Output	1080p micro HDMI / IP
Control method	PWM / PPM / UART / S.BUS / TCP / UDP
Local storage	SD card up to 256G
N.W.	944g
Dimension	1118*134.5*193.8mm





## Specialized Payload Series



### Z6K Pro

#### 3-axis Lightweight Multi-load Gimbal

- Support Sony A5xxx, A6xxx, Sony RX100 series etc
- Support Flir Duo Pro R/ Flir Vue Pro / Flir Vue
- Working Voltage: 16V
- Control: PWM/S.BUS/TTL
- N.W.: 790g

### M120 Pro

#### Loudspeaker



- Power: 25W
- Maximum sound pressure: 124 dBis
- Operating temperature: -10°C—45°C
- Effective broadcast distance: 550 meters
- Speaker mode: Real-time / Recording / Audio file upload / Text to voice
- Audio format: MP3/WAV/M4A/FLAC/AAC
- N.W.: 691g



### Z-6K

#### SONY ILCE Gimbal



### L4 Pro

- 13500lm
- Roll: ± 70 °, heading: ± 120 °
- Lighting distance: 150m
- Net weight: 790g

- Support Sony ILCE a6000

- HDMI is led to the top of gimbal from bottom inside

- Gimbal function: supply power, photo shoot, record, zoom, etc

- Control method: UART/PWM/PPM/S.BUS

- N.W.: 550g

## Viewport

### V-UAV Quick Setup and Release Mechanism



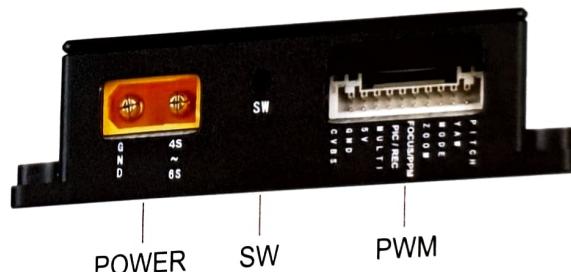
- Compatible with V-UAV's full range of pods
- Net weight: 145 grams
- Quick release board size: 100\*100\*25.5mm
- Control box size: 48.4\*56.2\*14.2mm

## Viewport Overview



• Viewport

• Left

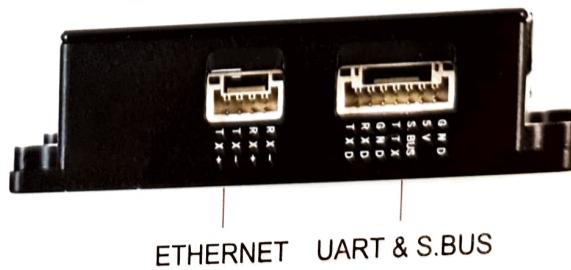


• Front



HDMI

• Right



ETHERNET TX/RX UART & S.BUS