V-UAV

Professional MANUFACTURER

of Robot Vision Devices

Q1 2026

Model Map

Series		AI Series				
Model		A609	A609R	AT19	AT50	AT9-50
Pics						
EO	EO image sensor	1/2.9” CMOS Sensor	1/2.9” CMOS Sensor	/	/	/
	Optical zoom	6mm	6mm	/	/	/
	Total pixel	2MP	2MP	/	/	/
	Min illumination	/	/	/	/	/
IR	IR thermal imager	640×512, 9.1mm	640×512, 9.1mm	640×512, 19mm	640×512, 50mm	640×512, 9.1mm + 50mm
	Pixel size	12μm	12μm	12μm	12μm	12μm
	NETD	≤40mK (@25°C)	≤40mK (@25°C)	≤50mK (@25°C)	≤50mK (@25°C)	≤40mK@25°C,F #1.0
LRF	Laser rangefinder	/	5~1200m	/	/	/
Overall	Object tracking	Yes, AI	Yes, AI	Yes, AI	Yes, AI	Yes, AI
	N.W	192g	232g	441g	686g	727g
	Dimension	52*69*96.2mm	62*78*106.2mm	86*118.2*143.2mm	100.8*136.3*163.6mm	102*111.9*168.2mm
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AI Series				
H4T-19	A10TR Pro	A10T Pro	A10 Pro	A20KTR
				
1/2" CMOS Sensor	1/2.8" CMOS Sensor	1/2.8" CMOS Sensor	1/2.8" CMOS Sensor	1/2.5" "Exmor R" CMOS Sensor
10x, 24.29mm prime lens	10x, f=4.7~47mm	10x, f=4.7~47mm	10x, f=4.7~47mm	20x 4K
48MP	5.13MP	5.13MP	5.13MP	8.51MP
Color 0.1 lux	Color 0.02 lux	Color 0.02 lux	Color 0.02 lux	Color 0.06 lux
640*512, 19mm	640×512, 19mm	640×512, 19mm	/	640×512, 35mm
12μm	12μm	12μm	/	12μm
≤50mK@25°C, F#1.0	≤50mK (@25°C)	≤50mK (@25°C)	/	≤50mK@F1.0 @25°C
5~1200m	5~1500m	/	/	50~3000m
Yes, AI	Yes, AI	Yes, AI	Yes, AI	Yes, AI
435g	651g	569g	500g	1011g
102.5*97.5*124.9mm	100*114.7*174.2mm	96*121.5*157.7mm	96*121.5*157.7mm	130*161*201.8mm
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AI Series

A20KT-35	A20KT-19	A30TR-1575	A30TR-50M
			
1/2.5" "Exmor R" CMOS Sensor	1/2.5" "Exmor R" CMOS Sensor	1/1.8" STARVIS CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor
20x 4K	20x 4K	30x	30x
8.51MP	8.51MP	4.17MP	2.13MP
Color 0.06 lux	Color 0.06 lux	Color 0.009 lux	Color 0.009 lux
640×512, 35mm	640×512, 19mm	640×512, **5x optical zoom** 15-75mm	640×512, 50mm
12μm	12μm	12μm	12μm
≤50mK@F1.0 @25℃	≤50mK@F1.0 @25℃	≤40mK@25℃,F #1.0	≤40mK (@25℃)
/	/	50~10000m	50~5000m
Yes, AI	Yes, AI	Yes, AI	Yes, AI
1035g	987g	2293g	1343g
130*161*201.8mm	130*161*201.8mm	175*200*248.4mm	138*145.8*218.2mm
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AI Series

A30T-50	Mini H30T	A40TR-35	A40TR Pro	A40T Pro
				
1/2.8" STARVIS2 CMOS Sensor	1/1.8" STARVIS CMOS Sensor	1/2.8" CMOS Sensor	1/2.8" CMOS Sensor	1/2.8" CMOS Sensor
30x	30x enhanced	40x	40x	40x
2.13MP	4.17MP	2.13MP	2.13MP	2.13MP
Color 0.009 lux	Color 0.009 lux	Color 0.01 lux	Color 0.01 lux	Color 0.01 lux
640×512, 50mm	640×512, 19mm	640×512, 35mm	40×512, 19mm	640×512, 19mm
12μm	12μm	12μm	12μm	12μm
≤50mK (@25℃)	≤50mK (@25℃)	≤50mK (@25℃)	≤50mK (@25℃)	≤50mK (@25℃)
/	5~1500m	50~3000m	50~3000m	/
Yes, AI	Yes, AI	Yes, AI	Yes, AI	Yes, AI
1208g	970g	1034g	990g	941g
128*139.5*214.2mm	129.5*174*195.5mm	130*136*209.7mm	125*134.5*204.7mm	118*134.5*193.8mm
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AI Series	
A40 Pro	**UA40T-35**
	
1/2.8" CMOS Sensor	1/2.8" CMOS Sensor
40x	40x
2.13MP	2.13MP
Color 0.01 lux	Color 0.01 lux
/	640*512, 35mm
/	12μm
/	≤50mK@F1.0 @25℃
/	/
Yes, AI	Yes, AI
924g	1076g
118*134.5*193.8mm	140*136*213.2mm
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Series		1280*1024 HD IR Thermal Gimbal Camera Series	
Model		**Q40TIRM-HD**	**U30TIRM-HD**
Pics			
EO	EO image sensor	1/2.8" CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor
	Optical zoom	40x, F=4.25~170mm	30x, F=4.3~129mm
	Total pixel	2.13MP	2.13MP
	Min illumination	Color 0.01 lux	Color 0.009 lux
IR	IR thermal imager	1280*1024,50mm	1280*1024, 50mm
	Pixel size	12μm	12μm
	NETD	≤40mK (@25℃)	≤40mK (@25℃)
LRF	Laser rangefinder	50~5000m	50~5000m
Overall	Object tracking	Yes	Yes
	N.W	1512g	1474g
	Dimension	145*146.9*228.2mm	155*143.5*228.2mm
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1280*1024 HD IR Thermal Gimbal Camera Series		
Q30TIRM-15100	**Q30TIR Pro**	**QIR50T Pro**
		
1/1.8" STARVIS CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor	/
30x, f=6.5~162.5mm	30x, F=4.3~129mm	/
4.17MP	2.13MP	/
Color 0.009 lux	Color 0.009 lux	/
1280X1024, 15~100mm, **7x optical zoom**	1280*1024,50mm	1280*1024,50mm
12μm	12μm	12μm
≤40mK (@25℃)	≤40mK (@25℃)	≤40mK (@25℃)
50~10000m	/	/
Yes	Yes	Yes
5737g	1282g	943g
236*266.7*325.5mm	120*140.9*212.2mm	112*136*181.3mm
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Series		Hawkeye Series（Micro Prime Lens）			
Model		U2 Pro	A609	A609R	U818M
Pics					
EO	EO image sensor	CMOS	1/2.9” CMOS Sensor	1/2.9” CMOS Sensor	CMOS
	Focus length	3.2mm + 16mm	6mm	6mm	8mm
	Resolution	3840*2160	1920x1080	1920x1080	1920x1080
IR	IR thermal imager	/	640×512, 9.1mm	640×512, 9.1mm	640×512, 18mm
	Pixel size	/	12μm	12μm	12μm
	NETD	/	≤50mK (@25°C)	≤40mK (@25°C)	≤50mK (@25°C)
LRF	Laser rangefinder	/	/	5~1200m	5~1200m
Overall	Object tracking	Yes	Yes, AI	Yes, AI	Yes
	Output	IP	IP	IP	IP
	N.W	114g	192g	232g	319g
	Dimension	33*44.7*80.2mm	52*69*96.2mm	62*78*106.2mm	88.2*62.9*107.2mm
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Hawkeye Series（Micro Prime Lens）	
U818	Q818
	
CMOS	CMOS
8mm	8mm
1920x1080	1920*1080
640×512, 18mm	640×512, 18mm
12μm	12μm
≤50mK (@25°C)	≤50mK (@25°C)
/	/
Yes	Yes
IP	IP
256g	345g
62.1*67*84.2mm	68.1*92.3*112.9mm
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Series		IR Thermal Only Series		
Model		AT19	AT50	QIR50T Pro
Pics				
IR	Focus Length	19mm	50mm	50mm
	Resolution	640*512	640*512	**1280*1024**
	Pixel pitch	12μm	12μm	12μm
	NETD	≤50mK (@25℃)	≤50mK (@25℃)	≤40mK (@25℃)
	FOV(Horizontal/Vertical)	22.9° / 18.4°	8.8° / 7	17.5° / 14°
	Detective Distance（Man: 1.8x0.5m）	792m	2083m	2083m
	Recognize Distance	198m	521m	521m
	Identify Distance	99m	260m	260m
	Detective Distance（Car: 4.2x1.8m）	2428m	6389m	6389m
	Recognize Distance	607m	1597m	1597m
	Identify Distance	303m	799m	799m
Overall	Object tracking	Yes，AI	Yes，AI	Yes
	Working mode	Uncooled LWIR	Uncooled LWIR	Uncooled LWIR
	N.W(w/o damping system)	441g	686g	943g
	Meas.	86*118.2*143.2mm	100.8*136.3*163.6mm	112*136*181.3mm
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IR Thermal Only Series		
AT9-50	QIR1575T	QIR25250T
		
9.1mm + 50mm	15~75mm, **5x optical zoom**	25~250mm, **10x optical zoom**
640*512	640*512	640*512
12μm	12μm	15μm
≤40mK (@25℃)，≤50mK (@25℃)	≤40mK (@25℃)	≤35mK
48.3° / 38.6°	28.7°~5.86° / 23.1°~4.69°	21.73°/ 17.5°
2083m	3125m	833~8333m
521m	781m	208~2083m
260m	391m	104~1042m
6389m	9583m	2556~25556m
1597m	2396m	639~6389m
799m	1198m	319~3194m
Yes，AI	Yes	Yes
Uncooled LWIR	Uncooled LWIR	**Cooled MWIR**
727g	1216g	2471g
102*111.9*168.2mm	130*160*200.8mm	165*188.2*238.4mm
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Series		T Series - Laser Rangefinder Series		
Model		Q20KTIRM	U30TIRM-HD	Q40TIRM-HD
Pics				
EO	EO image sensor	1/2.5" "Exmor R" CMOS	1/2.8" STARVIS2 CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor
	Optical zoom	20x	30x, F=4.3~129mm	40x, F=4.25~170mm
	Total pixel	8.51MP	2.13MP	2.13MP
	Min illumination	Color 0.06 lux	Color 0.009 lux	Color 0.01 lux
IR	IR thermal imager	640×480, 25mm	**1280*1024**, 50mm	**1280*1024**,50mm
	Pixel size	17μm	12μm	12μm
	NETD	≤50mK (@25°C)	≤40mK (@25°C)	≤40mK (@25°C)
LRF	Laser rangefinder	50~3000m	50~5000m	50~5000m
Overall	Object tracking	Yes	Yes	Yes
	N.W	1065g	1474g	1512g
	Dimension	132*156.6*196.7mm	155*143.5*228.2mm	145*146.9*228.2mm
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T Series - Laser Rangefinder Series		
Q30TIRM-15100	Q40TM Pro	Z30TIRM-1352
		
1/1.8" STARVIS CMOS Sensor	1/2.8" CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor
30x, f=6.5~162.5mm	40x, f=4.25~170mm + 8mm Prime lens	30x optical zoom, f=4.3~129mm
4.17MP	2.13MP	2.13MP
Color 0.009 lux	Color 0.01 lux	Color 0.009 lux
1280*1024, 15~100mm, 7x optical zoom	/	640X480, 13 / 52mm
12μm	/	12μm
≤40mK (@25°C)	/	≤50mK (@25°C)
50~10000m	3~2000m	5~1500m
Yes	Yes	Yes
5737g	966g	1153g
236*266.7*325.5mm	118*134.8*198.7mm	157.8*168.5*192.3mm
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Series		T Series - EO + IR Series		
Model		U30TIR-35	Q30TIR Lite	Q30TIR Pro
Pics				
EO	EO image sensor	1/2.8" STARVIS2 CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor
	Optical zoom	30x	30x	30x
	Total pixel	2.13MP	2.13MP	2.13MP
	Min illumination	Color 0.009 lux	Color 0.009 lux	Color 0.009 lux
IR	IR thermal imager	640×512, 35mm	640×512, 24mm	1280×1024, 50mm
	Pixel size	12μm	12μm	12μm
	NETD	≤50mK (@25°C)	≤50mK (@25°C)	≤40mK (@25°C)
Overall	Object tracking	Yes	Yes	Yes
	N.W	934g	860g	1282g
	Dimension	127×130×201.9mm	111.6*129.8*184.2mm	120*140.9*212.2mm
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Series		Single EO Series		
Model		Q10F	Q10N Pro	Q30T Pro
Pics				
EO	EO image sensor	1/3" CMOS	1/2.7" CMOS Sensor	1/2.8" STARVIS2 CMOS Sensor
	Optical zoom	10x	10x	30x
	Total pixel	4MP	5MP	2.13MP
	Min illumination	Color 0.05 lux	Color 0.002 lux	Color 0.009 lux
Overall	Power	14.8V~25.2V(2.9W, Max.8W)	11.1V~25.2V(2.4W, Max.7.2W)	14.8V~25.2V(8.8W, Max.20W)
	Object tracking	/	/	Yes
	N.W	378 g	355g	811g
	Dimension	86.2*108*136.7mm	91.6*111.4*139.2mm	104.9*128.2*180mm
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Single EO Series	
U30T	**Z36T Cube**
	
1/2.8" STARVIS2 CMOS Sensor	1/2" CMOS Sensor**(Starlight)**
30x	36x
2.13MP	2.13MP
Color 0.009 lux	Color 0.01 lux
14.8V~25.2V(8.3W, Max.16W)	16V(9.3W, Max.18.4W)
Yes	Yes
717g	842g
115.8*103.5*145.2mm	105.3*187.6*176.7mm
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Compatibility

MAVLINK MICRO AIR VEHICLE COMMUNICATION PROTOCOL

ARDUPILOT Versatile, Trusted, Open

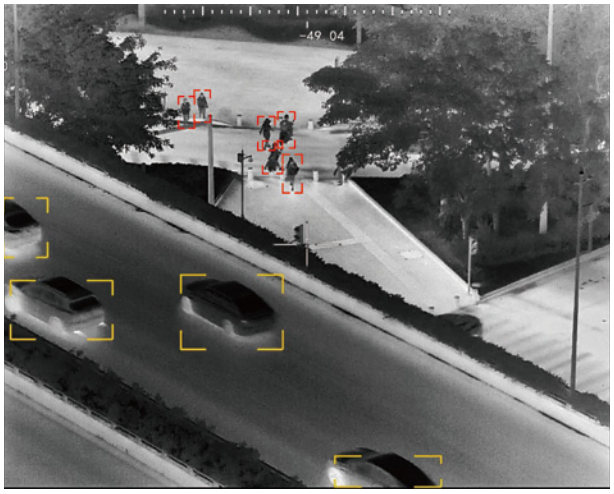
MP QGC PX4 autopilot

KLV METADATA

BlueEye

VStation Vstation

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. Support AI target customization.

A609

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

Overall Specifications

N.W.	192g
Product meas.	52*69*96.2mm
Input voltage	14.8V~25.2V
Dynamic current	450~1000mA @ 16V
Power consumption	Average 7.2W, Max 16W
Working environment temp.	-20°C ~ +50°C
IP rate	IP4X
Output	IP (RTSP/UDP 720p/ 1080p 30fps H264/H265)
Storage	TF card (Up to 256G,class 10, FAT32)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	S.BUS or TTL(either one, default is TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -60°(Up)~120°(Down), Roll: ±60°, Yaw/Pan: ±150°
Controllable Range	Pitch/Tilt: -45°~115°, Yaw/Pan: ±140°
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

EO Camera Spec

Imager Sensor	1/2.9" CMOS Sensor
Image pixel	2MP
Picture quality	Full HD 1080 (1920*1080)
Lens	Focus Length 6mm
Angle of View (D,H,V)	FOV: D 60° H 50° V 28°

IR Thermal Imager Spec

Focus Length	9.1mm
Horizontal FOV	48.7°
Vertical FOV	38.6°
Diagonal FOV	62.4°
Detective Distance (Man: 1.8x0.5m)	379 meters
Recognize Distance (Man: 1.8x0.5m)	95 meters
Identification Distance (Man: 1.8x0.5m)	47 meters
Detective Distance (Car: 4.2x1.8m)	1163 meters
Recognize Distance (Car: 4.2x1.8m)	291 meters
Identification Distance (Car: 4.2x1.8m)	145 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel size	12μm
Digital zoom	1x~8x
Focusing method	Athermal prime lens
NETD	≤40mK (@25°C,@F1.0)
Color palette	White hot, Black hot, Iron red
Radiometric function (Optional)	Support full-screen temperature data output
	Optional range(-20°C~+150°C +100°C~+550°C) ±2°C or ±2% of the reading (whichever is greater).

EO / IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames

EO/IR Camera AI Performance

Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, card recording duration, aircraft GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dulal video stream output activated)

A609R

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

EO Imager sensor
1/2.9" CMOS Sensor, 6mm Prime lens, 2MP

IR Thermal imager
640x512, 9.1mm focus length, 12μm

Laser range
5~1200m

Object Tracking
√

Output
IP

Power
14.8V~25.2V(8.5W, Max.16W)

N.W.
232g

Dimension
62*78*106.2mm

AT19

19mm Single IR Thermal AI Object Tracking Gimbal Camera

IR Thermal imager
640*512, 19mm focus length, 12μm

Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(7.6W, Max.20W)

N.W.
441g

Dimension
86*118.2*143.2mm

AT50

50mm Single IR Thermal AI Object Tracking Gimbal Camera

IR Thermal imager
640*512, 50mm focus length, 12μm

Power
14.8V~25.2V(5W, Max.16W)

Object Tracking
√

N.W.
686g

Output
1080p micro HDMI / IP

Dimension
100.8*136.3*163.6mm

H4T-19

10x EO+IR+LRF Wide-Angle Quad-sensor AI Object Tracking Gimbal Camera

Overall Specifications

N.W.	435g
Product meas.	102.5*97.5*124.9mm
Input Voltage	14.8V~25.2V
Dynamic current	1120~1600mA @ 16V
Power consumption	Average 17.9W, Max 25.6W
Working environment temp.	-20°C~+50°C
IP rate	IP4X
EO camera zoom capability	10x optical zoom, hybrid zoom 160x
Output	IP (RTSP/UDP 720p/ 1080p@25fps H264/H265)
Storage	TF card 1 (top slot)(Up to 256G, class 10, FAT32 format)
	TF card 2 (camera slot) (storage capacity within 512G, read and write speed A2 V30)
Picture in TF Card	TF card 1 (top slot): EO 1920*1080, IR 640*512
	TF card 2 (camera slot): wide-angle camera 4000*3000, zoom camera 4000*3000
Video in TF Card	TF card 1 (top slot): 1920×1080 @ 25 fps
	TF card 2 (camera slot): Wide-angle camera 4K@30fps, Zoom camera 4K@30fps
Control method	S.BUS or TTL(either one, default is TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -65°(Up)~135°(Down), Roll angle:±50°, Yaw/Pan: ±150°
Controllable Range	Pitch/Tilt: -45°~125°, Yaw/Pan: ±140°
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

Wide angle EO Camera Spec

Imager Sensor	1/2" CMOS Sensor (H:6.4mm, V:4.8mm, D:8.0mm)
Pixel size	0.80 μm (H) ×0.80 μm (V)
Resolution	48MP(8000*6000)
EFL	4.49mm
Equivalent focal length	24.29mm
Aperture	F2.8
Field of View	D:84° H:70.2° V:54.9°
Min illumination	Color 0.1 lux
Optical distortion	2.50%

Optical Zoom EO Camera Spec

Imager Sensor	1/2 inch CMOS (H:6.4mm, V:4.8mm, D:8.0mm)
Pixel size	0.80 μm (H) ×0.80 μm (V)
Resolution	48MP(8000*6000)
EFL	15.3~49.7mm±5%
Equivalent focal length	82.77-268.88mm, Aperture F3.7(W)~F4.6(T)
Field of View	D: 28.3°(W)~8.9°(T) H: 23.2°(W)~7.2°(T) V: 17.6°(W)~5.4°(T)
Min illumination	Color 5 lux
Optical distortion	1.6%(Wide)~1.4% (Tele), @⌀8mm

IR Thermal Imager Spec

Focus Length	19mm
Horizontal FOV	22.9°
Vertical FOV	18.4°
Diagonal FOV	29.0°
Detective Distance (Man: 1.8x0.5m)	792 meters
Recognize Distance (Man: 1.8x0.5m)	198 meters
Verified Distance (Man: 1.8x0.5m)	99 meters
Detective Distance (Car: 4.2x1.8m)	2428 meters
Recognize Distance (Car: 4.2x1.8m)	607 meters
Verified Distance (Car: 4.2x1.8m)	303 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel size	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@25°C, F#1.0
Color palette	White hot, Black hot, Iron red
Digital zoom	1x~8x
Radiometric function (Optional)	Thermometry range optional: -20°C~+150°C, +100°C~+550°C
	Thermometry accuracy: ±3°C or +3% of reading (whichever is greater) @ ambient temperature -20°C~60°C

EO/IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
Minimum signal-to-noise ratio	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed (Car)	±48 pixel/frame
Object memory time	100 frames

EO/IR Camera AI Performance

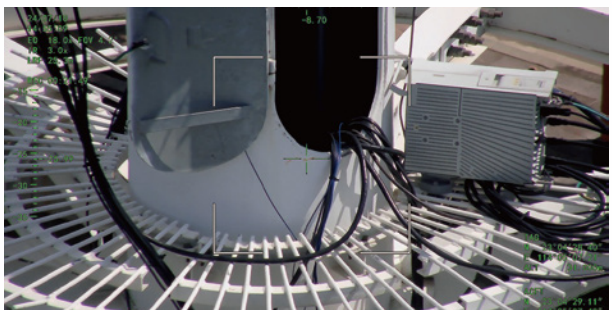
Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

Laser Rangefinder

Range	5~1200m
Accuracy	±1m
Light Beam	905nm pulse laser
Divergent Angle	~6 mrad
Laser pulse frequency	1~4Hz
Eye safety level	Class1
Working power	≤2W
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude, target ranging point GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support (one EO output, one IR output, video recording is not supported after it is enabled)



A10TR Pro

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

Overall Specifications

N.W.	651g
Product meas.	100*114.7*174.2mm
Input voltage	14.8V~25.2V
Dynamic current	620mA~1250mA @ 16V
Power consumption	Average 9.9W, Max 20W
Working environment temp.	-20°C ~ +60°C
IP Rating	IP4X
Output	micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 720p/1080p 30fps)
Storage	TF card (Up to 256G,class 10, FAT32)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: ±125°, Roll: ±40°, Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -45°(Up)~120°(Down), Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

IR Thermal Imager Spec

Focus Length	19mm
Coating Film	DLC
Horizontal FOV	22.9°
Vertical FOV	18.4°
Diagonal FOV	29.0°
Detective Distance (Man: 1.8x0.5m)	792 meters
Recognize Distance (Man: 1.8x0.5m)	198 meters
Verified Distance (Man: 1.8x0.5m)	99 meters
Detective Distance (Car: 4.2x1.8m)	2428 meters
Recognize Distance (Car: 4.2x1.8m)	607 meters
Verified Distance (Car: 4.2x1.8m)	303 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@F.0 @25°C
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 8x
Radiometric function(optional)	Thermometry range optional: -20°C~+150°C, 0°C~+550°C
	Thermometry accuracy: ±3°C or +3%(take larger value)@23°C ±3°C, Thermometry range 5m

EO Camera Spec

Imager Sensor	1/2.8" CMOS Sensor
Total pixel	5.13MP
Picture quality	Full HD 1080 (1920*1080)
Optical zoom	10x, f = 4.7mm ~ 47mm, F1.7~F3.1
Angle of View (D, H, V)	D: 69.9°(Wide end) ~ 8.7° (Tele end)
	H: 58.3°(Wide end) ~ 7.1° (Tele end)
	V: 44.7°(Wide end) ~ 5.4° (Tele end)
Min target distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m
Min illumination	Color(1/30s, 72.0dB): 0.02 lux , BW(1/30s, 72.0dB): 0.005lux
	Color DSS(1/1s, 72.0dB): 0.002 lux , BW DSS(1/1s, 72.0dB): 0.0005 lux
White balance	Auto / One Push / Manual / Indoor / Outdoor
Shutter speed	1/1sec ~ 1/100,000 sec
Focus	Auto / One Push / Manual
Exposure	Auto / Manual / Priority Mode (Shutter priority & aperture priority)
Backlight compensation	Yes
Auto ICR	Yes
Image stabilization	Yes
Defog	Yes

EO/IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames

AI Performance

Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

Laser Rangefinder

Range	5~1500m
Resolution	1:<400±1 2:>400±0.4%
Light Beam	905nm pulse laser
Divergent Angle	3~10 mrad
Measuring Respond Time	1:<0.06s/m(≤100) 2:<0.28s/m(≥100~600)
	3:<0.85s/m(≥600~1000) 4:<1s/m(≥1000~1500)
Power	0.5~0.9W
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude, target ranging point GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dual video stream output activated)

A10T Pro

10x EO+IR Dual Sensors AI Object Tracking Gimbal Camera

EO Imager sensor
1/2.8" CMOS Sensor, 5.13MP

EO Lens
10x optical zoom, f=4.7~47mm

IR Thermal imager
640*512, 19mm focus length, 12μm

Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(11.2W, Max.20W)

N.W.
569g

Dimension
96*121.5*157.7mm

A10 Pro

10x EO AI Object Tracking Gimbal Camera

EO Imager sensor
1/2.8" CMOS Sensor, 10x optical zoom, 5.13MP

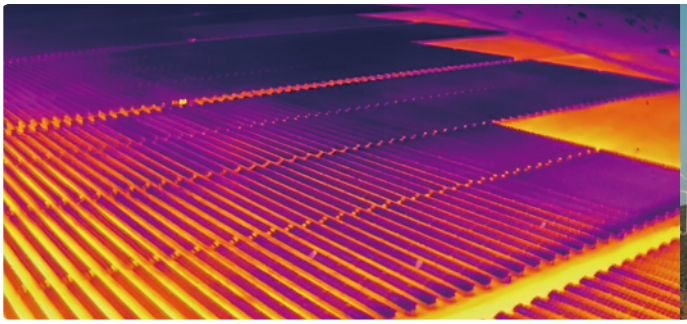
Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(8.3W, Max.20W)

N.W.
500g

Dimension
96*121.5*157.7mm



A20KTR

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

Overall Specifications

N.W.	1011g
Product meas.	130*161*201.8mm
Input voltage	14.8V~25.2V
Dynamic current	950~1500mA @ 16V
Power consumption	Average 15.2W, Max 24W
Working environment temp.	-20°C~ +50°C
IP rate	IP4X
Output	Micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 4K/1080P/720P 30fps H264/H265)
Storage	TF card (Up to 256G,class 10, FAT32)
Picture in TF Card	JPG(4K:3840*2160)
Video in TF Card	MP4(4K 30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -125°(Up)~115°(Down), Roll: ±70°, Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -45°~110°, Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

EO Camera Spec

Imager Sensor	1/2.5" "Exmor R" CMOS Sensor
Total pixel	8.51MP
Optical zoom	20x, F2.0 to F3.8,f = 4.4 mm (Wide), 88.4 mm(Tele), up to 30x with Super Resolution
Digital zoom	12x (240x with optical zoom)
Min. working distance	80 mm (Wide end), 800 mm (Tele end)
Angle of view	H: 70.2°(Wide end) ~ 4.1°(Tele end)
	V: 43.1°(Wide end) ~ 2.3°(Tele end)
Focus	Auto/Manual
S/N ratio	50dB
Recommended illumination	100 to 100000 lux
Min illumination	1.6 lux (1/30 sec, 50%, ICR off, High Sensitivity mode Off)
	0.4 lux (1/30 sec, 50%, ICR Off, High Sensitivity mode On)
	0.21 lux (50%, ICR off, Slow Shutter 1/4s, High sensitivity off)
	0.06 lux (50%, ICR off, Slow shutter 1/4s, High sensitivity on)
Gain	Auto
White balance	Auto/Manual
Electronic shutter speed	1/1 to 1/10000 sec
Back light compensation	On/Off
Noise reduction	On/Off
Image stabilization	On/Off
Defog	On/Off

IR Thermal Imager Spec

Focus Length	35mm
Horizontal FOV	12.5°
Vertical FOV	10.0°
Diagonal FOV	16.0°
Detective Distance (Man: 1.8x0.5m)	1458 meters
Recognize Distance (Man: 1.8x0.5m)	365 meters
Verified Distance (Man: 1.8x0.5m)	182 meters
Detective Distance (Car: 4.2x1.8m)	4472 meters
Recognize Distance (Car: 4.2x1.8m)	1118 meters
Verified Distance (Car: 4.2x1.8m)	559 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@F1.0 @25°C
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 8x
Radiometric function(optional)	Thermometry range optional: -20°C~+150°C, 0°C~+550°C
	Thermometry accuracy: ±3°C or +3%(take larger value)@23°C ±3°C, Thermometry range 5m

EO / IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	32*32 pixel (at 4K resolution). The target size is positively correlated with the resolution.
Maximum object size	Unrestricted
Tracking speed	Horizontal: Tracking target width in pixel * 2 (pixel/frame)
	Vertical: Tracking target height in pixel * 2 (pixel/frame)
Object memory time	2s

EO Camera AI Performance

Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	40*20 pixel (at 4K resolution). The recognized target size is positively correlated with the resolution.
Car detection rate	≥85%
False alarm rate	≤10%

Laser Rangefinder

Range	50~3000m
Minimum range	15m
Frequency	1~10Hz
Accuracy	±1m
Light Beam	1535±5nm pulse laser
Divergent Angle	~0.6 mrad
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude, target ranging point GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dual video stream output activated)

A20KT-35

4K 20x EO+IR Dual Sensors AI Object Tracking Gimbal Camera

EO Imager sensor
1/2.5" "Exmor R" CMOS Sensor, 8.51MP

EO Lens
20x optical zoom, f=4.4~88.4mm

IR Thermal imager
640*512, 35mm focus length, 12μm

Object Tracking
√

Output
1080p micro HDMI / IP (4K)

Power
14.8V~25.2V(16W, Max.24W)

N.W.
1035g

Dimension
130*161*201.8mm

A20KT-19

4K 20x EO+IR Dual Sensors AI Object Tracking Gimbal Camera

EO Imager sensor
1/2.5" "Exmor R" CMOS Sensor, 8.51MP

EO Lens
20x optical zoom, f=4.4~88.4mm

IR Thermal imager
640*512, 19mm focus length, 12μm

Object Tracking
√

Output
1080p micro HDMI / IP (4K)

Power
14.8V~25.2V(16W, Max.24W)

N.W.
987g

Dimension
130*161*201.8mm

A30TR-1575

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

Overall Specifications

N.W.	2293g
Product meas.	175*200*248.4mm
Input voltage	14.8V~25.2V
Dynamic current	1200~1700mA @ 16V
Power consumption	Average 19.2W, Max 27.2W
Working environment temp.	-20°C ~ +50°C
IP Rating	IP4X
Output	Micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 720p/1080p 30fps H264)
Storage	TF card (Up to 256G,class 10, FAT32)
Picture storage format in TF car	JPG(1920*1080)
Video in TF Card	MP4(1080P 30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

EO Camera Spec

Imager Sensor	1/1.8" STARVIS CMOS Sensor
Picture quality	4.17MP
Lens optical zoom	30x, f=6.5~162.5mm, F1.6 to F4.8
Digital zoom	12x (max. 432x with StableZoom)
Min object distance	100 mm (Wide end), 1200 mm (Tele end)
Horizontal viewing angle	58.1°(wide end) ~ 2.3°(tele end)
Image S/N	50 dB (Weight On)
Min illumination	In the case of ICR-Off (Typical value) 0.009 lx (1/30 sec, 50%, High Sensitivity mode On) 0.09 lx (1/30 sec, 50%, High Sensitivity mode Off) 0.0012 lx (1/4 sec, 1/3 sec, 50%, High Sensitivity mode On) 0.012 lx (1/4 sec, 1/3 sec, 50%, High Sensitivity mode Off)
	In the case of ICR-On 0.00008 lx (1/30 sec, 50%, High Sensitivity mode On) 0.00063 lx (1/30 sec, 50%, High Sensitivity mode Off) 0.000005 lx (1/4 sec, 1/3 sec, 30%, High Sensitivity mode On)"
High Sensitivity mode On/Off	Off
Recommended illumination	100 lx to 100,000 lx
Gain	Auto/Manual (0 to 50.0 dB (0 to 28 step)
	Max. Gain Limit (10.7 to 50.0 dB (6 to 28 step)
White balance	Auto, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto)
Wide Dynamic Range Mode	On/Off
Shutter speed	1/1 sec to 1/10000 sec (22 steps)
Backlight compensation On/Off	Off
Image Stabilizer On/Off/Hold	Off
ICR On/Off	Off
Noise Reduction	On/Off
Defog	On/Off (low, mid, high)

Gimbal Spec

Mechanical Range	Pitch/Tilt: -60°(Up)~105°(Down), Roll: ±60°, Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -45°~100°, Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

IR Thermal Imager Spec

Focus Length	15~75mm
optical zoom	1x ~ 5x
Horizontal FOV	28.7°~5.86°
Vertical FOV	23.1°~4.69°
Detective Distance (Man: 1.8x0.5m)	625~3125 meters
Recognize Distance (Man: 1.8x0.5m)	156~781 meters
Verified Distance (Man: 1.8x0.5m)	78~391 meters
Detective Distance (Car: 4.2x1.8m)	1917~9583 meters
Recognize Distance (Car: 4.2x1.8m)	479~2396 meters
Verified Distance (Car: 4.2x1.8m)	240~1198 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤40mK@25°C, F #1.0
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 8x

EO / IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames

EO Camera AI Performance

Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

Laser Rangefinder

Range	10km for big target (eg. building) ≥6km for car (2.3m×2.3m) ≥2.5km for people (1.75m×0.75m)
	(Based on typical value: LOS visibility: ≥10km Diffuse reflection rate: ≥0.3 Humility: ≤80%)"
Accuracy	≤2m (RMS)
Light Beam	1535±5nm pulse laser
Divergent Angle	≤0.5mrad
Laser pulse frequency	1~10Hz
Min measuring range	≤30m
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude, target ranging point GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dual video stream output activated)

A30TR-50M

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

EO Imager sensor
1/2.8" STARVIS2 CMOS Sensor, 30x optical zoom, 2.13MP

IR Thermal imager
640*512, 50mm focus length, 12μm

Laser range
50~5000m

Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(10.6W, Max.20W)

N.W.
1343g

Dimension
138*145.8*218.2mm

A30T-50

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

EO Imager sensor
1/2.8" STARVIS2 CMOS Sensor, 2.13MP

EO Lens
30x optical zoom, f=4.3~129mm

IR Thermal imager
640*512, 50mm focus length, 12μm

Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(16W, Max.24W)

N.W.
1208g

Dimension
128*139.5*214.2mm

Mini H30T

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

Overall Specifications

N.W.	970g
Product meas.	129.5*174*195.5mm
Input Voltage	14.8V~25.2V
Dynamic current	850~1500mA @ 16V
Power consumption	Average 13.6W, Max 24W
Working environment temp.	-20°C ~ +50°C
IP rate	IP4X
Output	Micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 720p/1080p 30fps H264/H265)
Storage	TF card (Up to 256G, class 10, FAT32 format)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	PWM / TTL / S.BUS / TCP / UDP

EO Camera Spec

Imager Sensor	1/1.8" STARVIS CMOS Sensor
Picture quality	4.17MP
Lens optical zoom	30x, f=6.5~162.5mm, F1.6 to F4.8
Digital zoom	12x (max. 432x with StableZoom)
Min object distance	100 mm (Wide end), 1200 mm (Tele end)
Horizontal viewing angle	58.1°(wide end) ~ 2.3°(tele end)
Image S/N	50 dB (Weight On)
Min illumination	In the case of ICR-Off (Typical value) 0.009 lx (1/30 sec, 50%, High Sensitivity mode On) 0.09 lx (1/30 sec, 50%, High Sensitivity mode Off) 0.0012 lx (1/4 sec, 1/3 sec, 50%, High Sensitivity mode On) 0.012 lx (1/4 sec, 1/3 sec, 50%, High Sensitivity mode Off)
	In the case of ICR-On 0.00008 lx (1/30 sec, 50%, High Sensitivity mode On) 0.00063 lx (1/30 sec, 50%, High Sensitivity mode Off) 0.000005 lx (1/4 sec, 1/3 sec, 30%, High Sensitivity mode On)
Recommended illumination	100 lx to 100,000 lx
Gain	Auto/Manual (0 to 50.0 dB (0 to 28 step) Max. Gain Limit (10.7 to 50.0 dB (6 to 28 step)
White balance	Auto, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto)
Wide Dynamic Range Mode	On/Off
Shutter speed	1/1 sec to 1/10000 sec (22 steps)
Backlight compensation On/Off	Off
Image Stabilizer On/Off/Hold	Off
ICR On/Off	Off
Noise Reduction	On/Off
Defog	On/Off (low, mid, high)

Gimbal Spec

Mechanical Range	Pitch/Tilt:-40°(Up)~100°(Down), Roll: ±70°, Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -35°~95°, Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

IR Thermal Imager Spec

Focus Length	19mm
Coating Film	DLC
Horizontal FOV	22.9°
Vertical FOV	18.4°
Diagonal FOV	29.0°
Detective Distance (Man: 1.8x0.5m)	792 meters
Recognize Distance (Man: 1.8x0.5m)	198 meters
Identification Distance (Man: 1.8x0.5m)	99 meters
Detective Distance (Car: 4.2x1.8m)	2428 meters
Recognize Distance (Car: 4.2x1.8m)	607 meters
Identification Distance (Car: 4.2x1.8m)	303 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel size	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@F1.0 @25°C
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 8x
Radiometric function(optional)	Thermometry range optional: -20°C~+150°C, 0°C~+550°C
	Thermometry accuracy: ±3°C or +3%(take larger value)@23°C±3°C, Thermometry range 5m

EO/IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames

Laser Rangefinder

Range	5~1500 meters
Accuracy	1m: <400±1 2m: >400±0.4%
Light Beam	905nm pulse laser
Divergent Angle	12 mrad
Laser pulse frequency	0.1~1Hz
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude or target ranging point GPS and altitude (choose one of them, and target ranging point GPS and altitude), date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	SMB read pictures or videos / HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dual video stream output activated)

EO Camera AI Performance

TOPS	1T
Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

A40TR-35

40x EO+IR AI Object Tracking, Object GPS Coordinate Calculation and LRF Gimbal Camera

EO Imager sensor
1/2.8" CMOS Sensor, 40x optical zoom, 2.13MP

IR Thermal imager
640*512, 35mm focus length, 12μm

Laser range
50~3000m

Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(11.2W, Max 24W)

N.W.
1034g

Dimension
130*136*209.7mm

A40TR Pro

40x EO+IR AI Object Tracking, Object GPS Coordinate Calculation and LRF Gimbal Camera

Overall Specifications

N.W.	990g
Product meas.	125*134.5*204.7mm
Input voltage	14.8V~25.2V
Dynamic current	700~1500mA @ 16V
Power consumption	Average 11.2W, Max 24W
Working environment temp.	-20°C ~ +50°C
IP rate	P4X
Output	Micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 720p/1080p 30fps H264/H265)
Storage	TF card (Up to 256G,class 10, FAT32)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt:-60°(Up)~130°(Down), Roll: ±40°, Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -45°~125°, Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

IR Thermal Imager Spec

Focus Length	19mm
Horizontal FOV	22.9°
Vertical FOV	18.4°
Diagonal FOV	29.0°
Detective Distance (Man: 1.8x0.5m)	792 meters
Recognize Distance (Man: 1.8x0.5m)	198 meters
Verified Distance (Man: 1.8x0.5m)	99 meters
Detective Distance (Car: 4.2x1.8m)	2428 meters
Recognize Distance (Car: 4.2x1.8m)	607 meters
Verified Distance (Car: 4.2x1.8m)	303 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@F1.0 @25°C
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 8x
Radiometric function(optional)	Thermometry range optional: -20°C~+150°C, 0°C~+550°C
	Thermometry accuracy: ±3°Cor +3%(take larger value)@23°C ±3°C, Thermometry range 5m

EO Camera Spec

Imager Sensor	1/2.8" CMOS Sensor
Picture quality	Full HD 1080 (1920*1080)
Effective pixel	2.13MP
Photo storage format	JPG(1920*1080 / 1280*720)
Video storage format	MP4 (1080P/720P 25fps/30fps)
Lens optical zoom	40x, F=4.25~170mm
Digital zoom	x32
Min object distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m
Field of View (D, H, V)	Wide: 73.80° / 66.35° / 39.98°
	Tele: 2.16° / 1.90° / 1.11°
AF Mode	Auto / One Push / Manual
Iris	Close ~ F1.6
Shutter speed	1/1 ~ 1/30,000 sec
Sync system	Internal
S/N ratio	more than 50dB
Min illumination	Color(1/30s, 79.5dB) : 0.01 lux , BW(1/30s, 79.5dB) : 0.002 lux
	Color DSS(1/1s, 79.5dB) : 0.001 lux , BW DSS(1/1s, 79.5dB) : 0.0002 lux
Exposure control	Auto / Iris. Priority / Shut. Priority / Manual
Gain Control(AGC)	0 ~ 10 steps
White balance	Auto / One Push / Manual / Indoor / Outdoor
Back Light	Off / BLC / HLC / WDR
Defog	Off / Manual / Auto

EO Camera AI Performance

Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

Laser Rangefinder

Range	for car ≥ 3000m; for human ≥ 2000m
Minimum range	15m
Frequency	1~10Hz
Accuracy	±1m
Light Beam	1535±5nm pulse laser
Divergent Angle	~0.6 mrad
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

EO/IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames
AI auto-zoom	Yes

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude, target ranging point GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dual video stream output activated)

A40T Pro

40x EO+IR Dual Sensors AI Object Tracking Gimbal Camera

EO Imager sensor
1/2.8" CMOS Sensor, 2.13MP

EO Lens
40x optical zoom, f=4.25~170mm

IR Thermal imager
640*512, 19mm focus length, 12μm

Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(9.6W, Max.20W)

N.W.
941g

Dimension
118*134.5*193.8mm

A40 Pro

40x EO AI Object Tracking Gimbal Camera

EO Imager sensor
1/2.8" CMOS Sensor, 40x optical zoom, 2.13MP

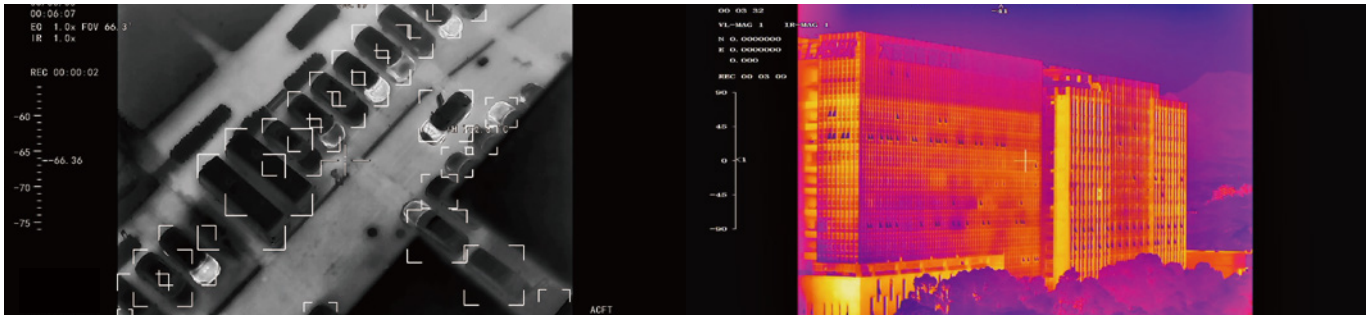
Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(8.8W, Max 20W)

N.W.
924g

Dimension
118*134.5*193.8mm



UA40T-35

40x AI Object Tracking EO+IR Dual Sensors Gimbal Camera

Overall Specifications

N.W.	1076g
Product meas.	140*136*213.2mm
IInput voltage	14.8V~25.2V
Dynamic current	1000~1500mA @ 16V
Power consumption	Average 16W, Max 24W
Output	Micro HDMI(1080P 30fps/60fps) / Ethernet: IP (RTSP/UDP 720p/1080p 30fps H264/H265)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP
IP Rating	IP4X
Working environment temp.	-20°C ~ +50°C
Local-storage	TF card (Up to 256G,class 10, FAT32)
Picture storage format in TF card	JPG(1920*1080)
Video storage format in TF card	MP4(1080P@30fps)

Gimbal Spec

Mechanical Range	Pitch/Tilt:-40°(Up)~130°(Down), Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -30°(Up)~125°(Down), Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

EO Camera Spec

Imager Sensor	1/2.8" CMOS Sensor
Picture quality	Full HD 1080 (1920*1080)
Effective pixel	2.13MP
Lens optical zoom	40x, F=4.25~170mm
Digital zoom	X32
Min object distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m
Angle of View (D, H, V)	Wide: 73.80° / 66.35° / 39.98°
	Tele: 2.16° / 1.90° / 1.11°
AF Mode	Auto / Manual
Iris	Close ~ F1.6
Shutter speed	1/1 ~ 1/30,000 sec
Sync system	Internal
S/N ratio	more than 50dB
Min illumination	Color(1/30s, 79.5dB) : 0.01 lux , BW(1/30s, 79.5dB) : 0.002 lux
	Color DSS(1/1s, 79.5dB) : 0.001 lux , BW DSS(1/1s, 79.5dB) : 0.0002 lux
Exposure control	Auto / Iris. Priority / Shut. Priority / Manual
Gain Control(AGC)	0 ~ 10 steps
White balance	Auto / Manual / Indoor / Outdoor
Back Light	Off / BLC / HLC / WDR
Defog	Off / Manual / Auto

IR Thermal Imager Spec

Focus Length	35mm
Horizontal FOV	12.5°
Vertical FOV	10.0°
Diagonal FOV	16.0°
Detective Distance (Man: 1.8x0.5m)	1458 meters
Recognize Distance (Man: 1.8x0.5m)	365 meters
Verified Distance (Man: 1.8x0.5m)	182 meters
Detective Distance (Car: 4.2x1.8m)	4472 meters
Recognize Distance (Car: 4.2x1.8m)	1118 meters
Verified Distance (Car: 4.2x1.8m)	559 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@25°C,F#1.0
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 8x
Radiometric function (optional)	Thermometry measuring mode: point anywhere measurement, selected box measurement
	Thermometry range optional: -20°C~+150°C, +100°C~+550°C
	Thermometry accuracy: ±3°C or +3% of reading (whichever is greater) @ ambient temperature -20°C~60°C

EO Camera AI Performance

TOPS	6T
Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

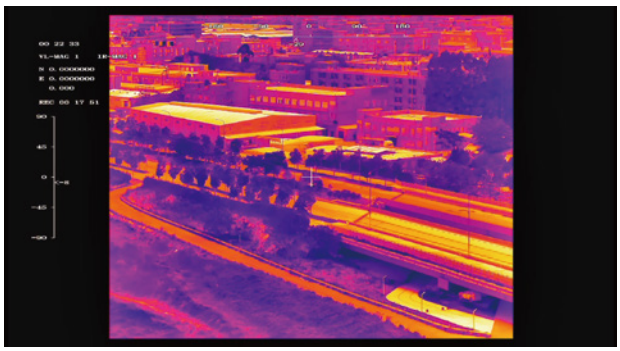
Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude or target ranging point GPS and altitude (choose one of them, and target ranging point GPS and altitude), date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dual video stream output activated)

EO/IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames
AI auto-zoom	Yes

1280 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.

Q40TIRM-HD

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

Overall Specifications

N.W.	1512g
Product meas.	145*146.9*228.2mm
Input voltage	14.8V~25.2V
Dynamic current	800~1500mA @16V
Power consumption	Average 12.8W, Max 24W
Working environment temp.	-20°C ~ +50°C
IP rate	IP4X
Output	IP (RTSP/UDP 720p/1080p 25fps /30fps H264/H265) / SDI (1080P 30fps)
Storage	TF card (Up to 512G,class 10, FAT32 format)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -60°(Up)~130°(Down), Roll: ±70°, Yaw/Pan: ±360°*N
Controllable Range	Pitch/Tilt: -45°~125°, Yaw/Pan: ±360°*N
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

EO Camera Spec

Imager Sensor	1/2.8" CMOS Sensor
Picture quality	Full HD 1080 (1920*1080)
Effective pixel	2.13MP
Lens optical zoom	40x, F=4.25~170mm
Digital zoom	Off / MAX x2 ~ x32
Min object distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m
Angle of View (D, H, V)	Wide: 73.80° / 66.35° / 39.98°
	Tele: 2.16° / 1.90° / 1.11°
AF Mode	Auto / One Push / Manual
Iris	Close ~ F1.6
Shutter speed	1/1 ~ 1/30,000 sec
Sync system	Internal
S/N ratio	more than 50dB
Min illumination	Color(1/30s, 79.5dB) : 0.01 lux, BW(1/30s, 79.5dB) : 0.002 lux
	Color DSS(1/1s, 79.5dB) : 0.001 lux, BW DSS(1/1s, 79.5dB) : 0.0002 lux
Exposure control	Auto / Iris. Priority / Shut. Priority / Manual
Gain Control(AGC)	0 ~ 10 steps
White balance	Auto / One Push / Manual / Indoor / Outdoor
Back Light	Off / BLC / HLC / WDR
Defog	Off / Manual / Auto

IR Thermal Imager Spec

Focus Length	50mm
Horizontal FOV	17.5°
Vertical FOV	14.0°
Detective Distance (Man: 1.8x0.5m)	2083 meters
Recognize Distance (Man: 1.8x0.5m)	521 meters
Verified Distance (Man: 1.8x0.5m)	260 meters
Detective Distance (Car: 4.2x1.8m)	6389 meters
Recognize Distance (Car: 4.2x1.8m)	1597 meters
Verified Distance (Car: 4.2x1.8m)	799 meters
Working mode	Uncooled long wave (8μm~14μm) thermal imager
Detector pixel	1280*1024
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤40mK@25°C,F #1.0
MRTD	≤400mK@25°C,F #1.0
Shutter	Bistable Shutter
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 4x
Thermometry type	Not supported

Camera Object Tracking

Update rate of deviation pixel	50Hz
Output delay of deviation pixel	5ms
Minimum object contrast	5%
SNR	4
Minimum object size	32*32 pixel
Maximum object size	128*128 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames (4s)
The mean square root values of pulse noise in the object position	< 0.5 pixel

Laser Rangefinder

Measure ability	≥5km for big target (eg. building) ≥3km for car (2.3m×2.3m) ≥1.5km for people (1.75m×0.75m) (Based on typical value: LOS visibility: ≥8km Diffuse reflection rate: ≥0.3 Humility: ≤80%)
Accuracy (Typical value)	≤ ±1m (RMS)
Wave length	1535nm pulse laser
Divergent Angle	≤ 0.5mrad
Measurement frequency	1~10HZ
Min measuring range	≤20m
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude or target ranging point GPS and altitude (choose one of them, and target ranging point GPS and altitude), date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	SMB read pictures or videos / HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output	Not support (EO and IR two stream output)

U30TIRM-HD

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

EO Imager sensor
1/2.8" STARVIS2 CMOS Sensor, 30x optical zoom, 2.13MP

IR Thermal imager
1280*1024, 50mm focus length, 12μm

Laser range
50~5000m

Object Tracking
√

Output
IP / SDI

Power
14.8V~25.2V(13.6W, Max.24W)

N.W.
1474g

Dimension
155*143.5*228.2mm

Q30TIRM-15100

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

EO Imager sensor
1/1.8" STARVIS CMOS Sensor, 30x optical zoom, 4.17MP

IR Thermal imager
1280*1024, 15~100mm, 7x optical zoom, 12μm

Laser range
50~10000m

Object Tracking
√

Output
IP / SDI

Power
14.8V~25.2V(16W, Max.24W)

N.W.
5737g

Dimension
236*266.7*325.5mm

Q30TIR Pro

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

EO Imager sensor
1/2.8" STARVIS2 CMOS Sensor, 2.13MP

EO Lens
30x optical zoom, f=4.3~129mm

IR Thermal imager
1280*1024, 50mm focus length, 12μm

Object Tracking
√

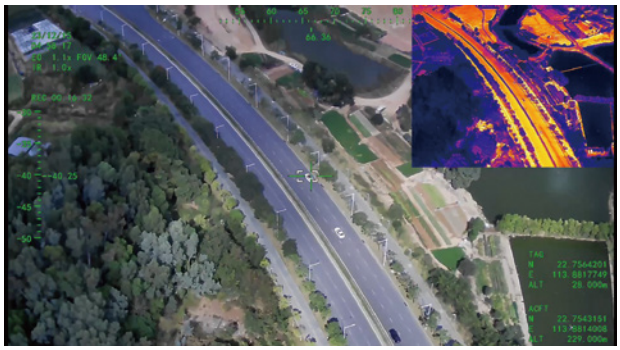
Output
IP / SDI

Power
14.8V~25.2V(13W, Max.24W)

N.W.
1282g

Dimension
120*140.9*212.2mm

Hawkeye Series



V-UAV new generation of micro prime 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 Pro

Micro Prime Lens Dual EO Sensors Object Tracking Gimbal Camera

Overall Specifications

N.W.	114g
Product meas.	33*44.7*80.2mm
Working voltage	12~25.2V
Dynamic current	490~900mA @ 12V
Power consumption	Average 5.88W, Max 10.80W
Working environment temp.	-20°C ~ +50°C
IP rate	IP4X
Output	IP (RTSP 720p/1080p 25fps/30fps H264/H265)
Control method	TTL / TCP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -35°(Up)~115°(Down), Yaw/Pan: ±125°
Controllable Range	Pitch/Tilt: -30°~110°, Yaw/Pan: ±120°
Vibration angle	Pitch/Yaw: ±0.02°
One-key to center	√

EO Camera Spec 1

Resolution	3840*2160 @30fps
Focus Length	3.2mm
Angle of View	83°*53°
Digital zoom	1~5x

EO Camera Spec 2

Resolution	3840*2160 @30fps
Focus Length	16mm
Angle of View	20°*11°
Digital zoom	1~8x (Hybrid Zoom: 5*8=40x)

EO Camera Object Tracking

Minimum object contrast	5%
Minimum object size	16*16 pixel
Maximum object size	128*128 pixel
Tracking speed（Man）	±32 pixel/frame
Tracking speed (Car)	±48 pixel/frame
Object memory time	100 frames

U818M

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

Overall Specifications

N.W.	319g
Product meas.	88.2*62.9*107.2mm
Input voltage	12V~25.2V
Dynamic current	540~900mA @ 16V
Power consumption	Average 8.6W, Max 14.4W
Working environment temp.	-20°C ~ +45°C
IP rate	IP4X
Output	IP (RTSP/UDP 720p/1080p 25fps/30fps H264/H265)
Storage	TF card (Up to 512G,class 10, FAT32 format)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	S.BUS or TTL(either one, default is TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -55°(Up)~125°(Down), Yaw/Pan: ±360°*N
Controllable Range	Pitch/Tilt: -45°~120°, Yaw/Pan: ±360°*N
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

EO Camera Spec

Imager Sensor	CMOS Sensor
Resolution	1920*1080
Focus Length	8mm
Field of View (H, V)	38.3°*22.1°
Digital zoom	1x ~ 8x
Detective Distance (Car: 4.2x1.8m)	2000m
Recognize Distance (Car: 4.2x1.8m)	1000m
Recognize Distance (Man: 1.8x0.5m)	400m

IR Thermal Imager Spec

Focus Length	18mm
Horizontal FOV	24°
Vertical FOV	18.1°
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel size	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@F1.0 @25°C
Color palette	White hot, black hot, Iron red
Digital zoom	1x ~ 8x
Detective Distance (Car: 4.2x1.8m)	1000m
Recognize Distance (Car: 4.2x1.8m)	500m
Recognize Distance (Man: 1.8x0.5m)	250m

EO / IR Camera Object Tracking

Update rate of deviation pixel	60Hz
Minimum object contrast	5%
Minimum object size	16*16 pixel
Maximum object size	128*128 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames

Laser Rangefinder

Range	5~1200m
Resolution	1m
Light Beam	905nm pulse laser
Divergent Angle	~6 mrad
Laser pulse frequency	1~4Hz
Location Resolving	Latitude and longitude of target
Rangefinder	Target distance measuring

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude, target ranging point GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	SMB read pictures or videos / HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Not support(EO and IR two stream output)

U818

2-axis Micro Prime Lens EO/IR Dual Sensors Object Tracking Gimbal Camera

EO Imager sensor
CMOS Sensor

EO Lens
8mm Prime lens, FOV 38.3°×22.1°

IR Thermal imager
640x512, 18mm focus length, 12μm

Object Tracking
√

Output
IP

Power
12V(7.2W, Max.10.8W)

N.W.
256g

Dimension
62.1*67*84.2mm

Q818

3-axis Micro Prime Lens EO/IR Dual Sensors Object Tracking Gimbal Camera

EO Imager sensor
CMOS Sensor

EO Lens
8mm Prime lens, FOV 38.3°*22.1°

IR Thermal imager
640x512, 18mm focus length, 12μm

Object Tracking
√

Output
IP

Power
12V~25.2V(7.2W, Max.12W)

N.W.
345g

Dimension
68.1*92.3*112.9mm

IR Thermal Only Gimbal Camera Series

Designed for professional aerial missions, this series provides clear, stabilized infrared imaging for inspection, surveillance, and search & rescue operations. Equipped with fixed-focus or optical zoom IR lenses, and supporting cooled MWIR sensors, it ensures long-range detection, smooth imaging, and reliable performance in demanding flight environments.

AT9-50

5.5x Dual IR Thermal Sensors AI Object Tracking Gimbal Camera

Overall Specifications

N.W.	718.3g
Product meas.	102*111.9*168.2mm
IInput voltage	14.8V~25.2V
Dynamic current	1000~1500mA @ 16V
Power consumption	Average 8W, Max 16W
Working environment temp.	-20°C ~ +50°C
Output	Micro HDMI(1080P 30fps/60fps) / IP (RTSP/UDP 720p/1080p 30fps H264/H265)
Storage	TF card (Up to 256G, class 10, FAT32 format)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P 30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -110°(Up)~130°(Down), Roll: ±40°, Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -45°~125°, Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

IR Thermal Imager 1 Spec

Focus Length	50mm
Aperture	F1.0
Horizontal FOV	8.7°
Vertical FOV	7.0°
Detective Distance (Man: 1.8x0.5m)	2083 meters
Recognize Distance (Man: 1.8x0.5m)	521 meters
Verified Distance (Man: 1.8x0.5m)	260 meters
Detective Distance (Car: 4.2x1.8m)	6389 meters
Recognize Distance (Car: 4.2x1.8m)	1597 meters
Verified Distance (Car: 4.2x1.8m)	799 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤50mK@F1.0 @25°C
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 8x

IR Thermal Imager 2 Spec

Focus Length	9.1mm
Aperture	F1.0
Horizontal FOV	48.3°
Vertical FOV	38.6°
Detective Distance (Man: 1.8x0.5m)	379 meters
Recognize Distance (Man: 1.8x0.5m)	95 meters
Verified Distance (Man: 1.8x0.5m)	47 meters
Detective Distance (Car: 4.2x1.8m)	1163 meters
Recognize Distance (Car: 4.2x1.8m)	291 meters
Verified Distance (Car: 4.2x1.8m)	145 meters
Working mode	Uncooled VOx long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤40mK@F1.0 @25°C
Color palette	White hot, Black hot, Iron red

IR Camera Object Tracking

Update rate of deviation pixel	30Hz
Output delay of deviation pixel	<30ms
Minimum object contrast	5%
SNR	4
Minimum object size	16*16 pixel
Maximum object size	256*256 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames (4s)

IR Camera AI Performance

Targets type	Car and human
Simultaneous detection quantity	≥ 10 targets
Min contrast ratio	5%
Min target size	5×5 pixel
Car detection rate	≥85%
False alarm rate	≤10%

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude or target ranging point GPS and altitude (choose one of them, and target ranging point GPS and altitude), date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	IR1+IR2 / IR2+IR1 / IR1 / IR2
Dual video stream output (optional)	Support(EO and IR two stream output, notes: unable to record once the dual video stream output activated)

QIR1575T

5x Optical Zoom IR Thermal Object Tracking Gimbal Camera

IR Thermal imager
640*512, 15~75mm focus length, 12μm

Object Tracking
√

Output
1080 Micro HDMI / IP

Power
14.8V~25.2V(7.68W, Max.16W)

N.W.
1216g

Dimension
130*160*200.8mm

QIR25250T

10x Optcial Zoom Cooled MWIR IR Thermal Object Tracking Gimbal Camera

IR Thermal imager
640*512, 25-250mm focus length (Cooled MWIR)

Object Tracking
√

Output
1080 Micro HDMI / IP

Power
14.8V~25.2V(9.6W, Max.16W)

N.W.
2471g

Dimension
165*188.2*238.4mm

QIR50T Pro

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

Overall Specifications

N.W.	943g
Product meas.	112*136*181.3mm
Input voltage	14.8V~25.2V
Dynamic current	500~1250mA @ 16V
Power consumption	Average 8W, Max 20W
Working environment temp.	-20°C ~ +50°C
IP rate	IP4X
Output	IP (RTSP/UDP 720p/1080p 25fps /30fps H264/H265) / SDI (1080P 30fps)
Storage	TF card (Up to 512G,class 10, FAT32 format)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

IR Thermal Imager Spec

Focus Length	50mm
Horizontal FOV	17.5°
Vertical FOV	14.0°
Detective Distance (Man: 1.8x0.5m)	2083 meters
Recognize Distance (Man: 1.8x0.5m)	521 meters
Verified Distance (Man: 1.8x0.5m)	260 meters
Detective Distance (Car: 4.2x1.8m)	6389 meters
Recognize Distance (Car: 4.2x1.8m)	1597 meters
Verified Distance (Car: 4.2x1.8m)	799 meters
Working mode	Uncooled long wave (8μm~14μm) thermal imager
Detector pixel	1280*1024
Pixel pitch	12μm
Focusing method	Athermal prime lens
NETD	≤40mK@25°C,F #1.0
MRTD	≤400mK@25°C,F #1.0
Shutter	Bistable Shutter
Color palette	White hot, Black hot, Iron red
Digital zoom	1x ~ 4x
Thermometry type	Not supported

Gimbal Spec

Mechanical Range	Pitch/Tilt:-55°(Up)~125°(Down), Roll: ±70°, Yaw/Pan: ±360°*N
Controllable Range	Pitch/Tilt: -45°~120°, Yaw/Pan: ±360°*N
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

IR Thermal Object Tracking

Update rate of deviation pixel	50Hz
Output delay of deviation pixel	5ms
Minimum object size	32*32 pixel
Maximum object size	128*128 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames (4s)

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude or target ranging point GPS and altitude (choose one of them, and target ranging point GPS and altitude), date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	SMB read pictures or videos / HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature

T Series Object GPS Coordinate Calculation and Laser Rangefinder Series

An advanced location Calculation algorithm is used to accurately analyze the GPS location of the object, calculate the distance of the object, and superimposed on the display. Laser rangefinder gimbal cameras have a great auxiliary role in the law enforcement , firefighting etc.

Q20KTIRM

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

EO Imager sensor
1/2.5" "Exmor R" CMOS, 20x optical zoom, 8.51MP

IR Thermal imager
640*480, 25mm focus length, 17μm

Laser range
50~3000m

Object Tracking
√

Output
1080p micro HDMI / IP

Power
14.8V~25.2V(12.8W, Max.24W)

N.W.
1065g

Dimension
132*156.6*196.7mm

Q40TM Pro

40x Dual EO Object Tracking Object GPS Coordinate Calculation and LRF Gimbal Camera

EO 1
1/2.8" CMOS Sensor, 40x optical zoom, 2.13MP

EO 2
8mm Prime lens, FOV 45°*30°

Laser range
3~2000m

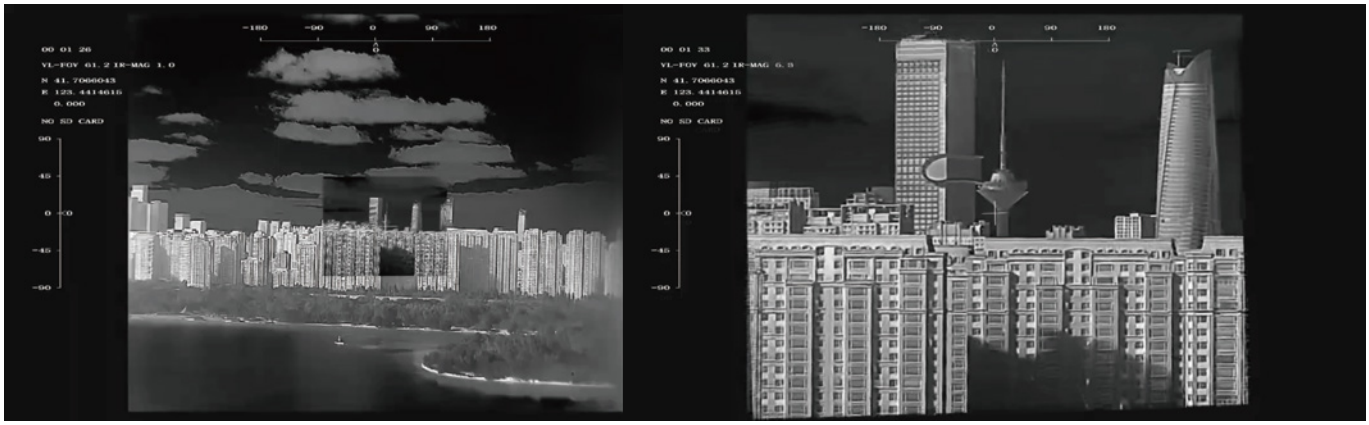
Object Tracking
√

Output
IP / SDI

Power
14.8V~25.2V(11.7W, Max.20W)

N.W.
966g

Dimension
118*134.8*198.7mm



Z30TIRM-1352

30x EO Dual IR Sensors Object GPS Coordinate Calculation and LRF Gimbal Camera (IR 16x Seamless Fusion Zoom)

Overall Specifications

N.W.	1153g
Product meas.	157.8*168.5*192.3mm
Input voltage	14.8V~25.2V
Dynamic current	820~1500mA @16V
Power consumption	Average 13.1W, Max 24W
Working environment temp.	-20°C ~ +50°C
IP rate	IP4X
Output	IP (RTSP/UDP 720p/1080p 25fps /30fps H264/H265)
Storage	TF card (Up to 512G,class 10, FAT32 format)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt: -60°(Up)~125°(Down), Roll: ±60°, Yaw/Pan: ±360°*N
Controllable Range	Pitch/Tilt: -45°~120°, Yaw/Pan: ±360°*N
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

EO Camera Spec

Imager Sensor	1/2.8" STARVIS2 CMOS Sensor
Picture quality	Full HD 1080 (1920*1080)
Effective pixel	2.13MP
Lens optical zoom	30x, F=4.3~129mm
Digital zoom	12x (360x with optical zoom)
Min object distance	10mm(wide end) to 1200mm(tele end)
Horizontal viewing angle	64.0°(wide end) ~ 2.4°(tele end)
S/N ratio	more than 50dB
Min illumination	Color 0.009 lux (1/30 sec, 50%, High Sensitivity mode On)
	Color 0.09 lux (1/30 sec, 50%, High Sensitivity mode Off)
Exposure control	Auto, Manual, Priority mode (shutter priority & iris priority), EV compensation, Slow AE
White balance	Auto, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto)
Shutter speed	1/1s to 1/10,000s, 22 steps
Back light compensation	On/Off
Noise reduction	On/Off
Image stabilization	On/Off
Defog	On/Off

IR Thermal Imager 1 Spec

Focus Length	13mm
Horizontal FOV	32.9°
Vertical FOV	26.6°
Diagonal FOV	41.4°
Detective Distance (Man: 1.8x0.5m)	542 meters
Recognize Distance (Man: 1.8x0.5m)	135 meters
Identification Distance (Man: 1.8x0.5m)	68 meters
Detective Distance (Car: 4.2x1.8m)	1661 meters
Recognize Distance (Car: 4.2x1.8m)	415 meters
Identification Distance (Car: 4.2x1.8m)	208 meters
Working mode	Uncooled long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
Emissivity correction	0.01~1
NETD	≤50mK (@25°C)
MRTD	≤650mK (@characteristic frequency)
Image enhancement	Auto adjust image brightness and contrast ratio
Color palette	White hot, Black hot, Iron red
Auto Non-uniform correction	Yes (no shutter)
Digital zoom	1x / 2x / 3x

IR Thermal Imager 2 Spec

Focus Length	52mm
Horizontal FOV	8.4°
Vertical FOV	6.8°
Diagonal FOV	10.8°
Detective Distance (Man: 1.8x0.5m)	2167 meters
Recognize Distance (Man: 1.8x0.5m)	542 meters
Identification Distance (Man: 1.8x0.5m)	271 meters
Detective Distance (Car: 4.2x1.8m)	6644 meters
Recognize Distance (Car: 4.2x1.8m)	1661 meters
Identification Distance (Car: 4.2x1.8m)	831 meters
Working mode	Uncooled long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
Emissivity correction	0.01~1
NETD	≤50mK (@25°C)
MRTD	≤650mK (@characteristic frequency)
Image enhancement	Auto adjust image brightness and contrast ratio
Color palette	White hot, Black hot, Iron red
Auto Non-uniform correction	Yes (no shutter)
Digital zoom	4x / 8x / 12x / 16x

EO / IR Camera Object Tracking

Update rate of deviation pixel	50Hz
Output delay of deviation pixel	5ms
Minimum object contrast	5%
SNR	4
Minimum object size	32*32 pixel
Maximum object size	128*128 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames (4s)
The mean square root values of pulse noise in the object position	< 0.5 pixel

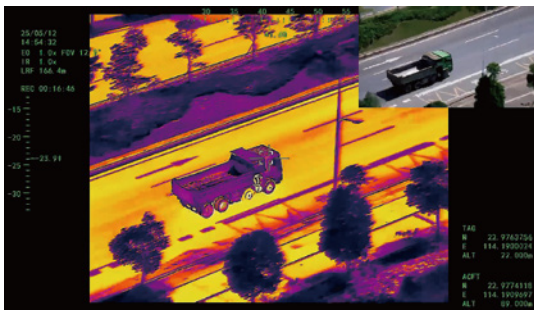
Laser Rangefinder

Range	5~1500m
Accuracy	1m: <400±1 2m: >400±0.4%
Light Beam	905nm pulse laser
Divergent Angle	12 mrad
Laser pulse frequency	0.1~1Hz
Location Resolving	Latitude and longitude of target
Rangefinder	Measure the distance between the object at the center of screen and the laser rangefinder

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude, target ranging point GPS and altitude, date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	SMB read pictures or videos / HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature

T Series Dual-Sensor Object Tracking Series



Integrated high-precision uncooled long wave IR thermal image sensor, EO + IR dual-sensor gimbal cameras can record and transmit IR thermal image and visible images at the same time. See the unseen. IR Thermal sensors reveal details invisible to the naked eye by making subtle differences in temperature visible. This new view on the world can reveal the damage of equipment or buildings, fire spark in forest, the location of people or animals and more.Thermometry function even increases the IR thermal inspection standard to a higher level.

Q30TIR LITE

30x EO + IR Dual-Sensor Object Tracking Gimbal Camera

Overall Specifications

N.W.	860g
Product meas.	111.6*129.8*184.2mm
IInput voltage	14.8V~25.2V
Dynamic current	620~1250mA @ 16V
Power consumption	Average 9.9W, Max 20W
Working environment temp.	-20°C ~ +50°C
IP rate	IP4X
Output	Micro HDMI(1080P 60fps) / IP (RTSP/UDP 720p/1080p 25fps/30fps H264/H265) / SDI (1080P 30fps)
Storage	TF card (Up to 512G,class 10, FAT32 format)
Picture in TF Card	JPG(1920*1080)
Video in TF Card	MP4(1080P@30fps)
Control method	PWM / S.BUS / UART (TTL) / TCP / UDP

Gimbal Spec

Mechanical Range	Pitch/Tilt:-60°(Up)~130°(Down), Roll: ±40°, Yaw/Pan: ±300° / ±360°*N (IP output version)
Controllable Range	Pitch/Tilt: -45°(Up)~125°(Down), Yaw/Pan: ±290° / ±360°*N (IP output version)
Vibration angle	Pitch/Roll/Yaw: ±0.02°
One-key to center	√

EO Camera Spec

Imager Sensor	1/2.8" STARVIS2 CMOS Sensor
Picture quality	Full HD 1080 (1920*1080)
Effective pixel	2.13MP
Lens optical zoom	30x, F=4.3~129mm
Digital zoom	12x (360x with optical zoom)
Min object distance	10mm(wide end) to 1200mm(tele end)
Horizontal viewing angle	64.0°(wide end) ~ 2.4°(tele end)
S/N ratio	more than 50dB
Min illumination	Color 0.009 lux (1/30 sec, 50%, High Sensitivity mode On)
	Color 0.09 lux (1/30 sec, 50%, High Sensitivity mode Off)
Exposure control	Auto, Manual, Priority mode (shutter priority & iris priority), EV compensation, Slow AE
Gain	Auto/Manual 0dB to 50.0dB (0 to 28 steps) Max.Gain Limit 10.7 dB to 50.0dB (6 to 28 steps)
White balance	Auto, ATW, Indoor, Outdoor, One Push WB,Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto)
Shutter speed	1/1s to 1/10,000s, 22 steps
Backlight compensation	Yes
Defog	Yes

IR Thermal Imager Spec

Focus Length	24mm
Horizontal FOV	18.2°
Vertical FOV	14.6°
Diagonal FOV	23.2°
Detective Distance (Man: 1.8x0.5m)	1000 meters
Recognize Distance (Man: 1.8x0.5m)	250 meters
Identification Distance (Man: 1.8x0.5m)	125 meters
Detective Distance (Car: 4.2x1.8m)	3067 meters
Recognize Distance (Car: 4.2x1.8m)	767 meters
Identification Distance (Car: 4.2x1.8m)	383 meters
Working mode	Uncooled long wave (8μm~14μm) thermal imager
Detector pixel	640*512
Pixel pitch	12μm
Focusing method	Athermal prime lens
Emissivity correction	0.01~1
NETD	≤50mK (@25°C)
MRTD	≤650mK (@characteristic frequency)
Image enhancement	Auto adjust image brightness and contrast ratio
Color palette	White hot, Black hot, Iron red
Auto Non-uniform correction	Yes (no shutter)
Digital zoom	1x ~ 4x
Thermometry type	Not support

EO/IR Camera Object Tracking

Update rate of deviation pixel	50Hz
Output delay of deviation pixel	5ms
Minimum object contrast	5%
SNR	4
Minimum object size	32*32 pixel
Maximum object size	128*128 pixel
Tracking speed	±48 pixel/frame
Object memory time	100 frames (4s)
The mean square root values of pulse noise in the object position	< 0.5 pixel

Advanced Features

OSD	Display the gimbal's yaw and pitch angle, magnification, ranging value, card recording duration, aircraft GPS and altitude or target ranging point GPS and altitude (choose one of them, and target ranging point GPS and altitude), date and time
Geotagging	Display time and GPS coordinate in picture exif
Card reading online	SMB read pictures or videos / HTTP read pictures or videos
KLV (UDP)	Card recording or BlueEye video playback
ArduPilot / PX4	Support(Mavlink protocol) Optional: Support Ardupilot Follow me feature
Video switching	EO+IR /IR+EO /EO /IR
Dual video stream output (optional)	Not support(EO and IR two stream output)

U30TIR-35

30x EO + IR Dual-Sensor Object Tracking Gimbal Camera

EO Imager sensor
1/2.8" STARVIS2 CMOS Sensor, 2.13MP

EO Lens
30x optical zoom, f=4.3~129mm

IR Thermal imager
640*512, 35mm focus length, 12μm

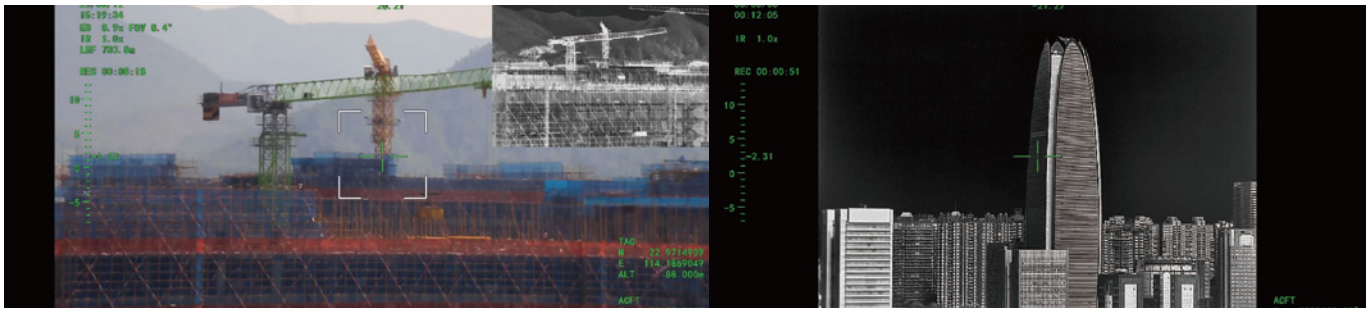
Object Tracking
√

Output
Micro HDMI / IP

Power
14.8V~25.2V(10.4W, Max.20W)

N.W.
934g

Dimension
127*130*201.9mm



Single EO Sensor Series

Build-in normalization, cross-correlation and tracking algorithm, combining with object missing recapture algorithm, object tracking gimbal cameras achieve stable tracking of a target. Mainly used for law enforcement, security protection, inspection and also be helpful for zooming a target without losing it.

Q10F

10x Optical Zoom HDMI Output Gimbal Camera

EO Imager sensor
1/3" CMOS Sensor, 10x optical zoom, 4MP

Object Tracking
√

Output
1080 Micro HDMI / Analog

Power
14.8V~25.2V(2.9W, Max.8W)

N.W.
378g

Dimension
86.2*108*136.7mm

Q10N Pro

10x Optical Zoom IP Output Gimbal Camera

EO Imager sensor
1/2.7" CMOS Sensor, 10x optical zoom, 5MP

Object Tracking
√

Output
IP

Power
11.1V~25.2V(2.4W, Max.7.2W)

N.W.
355g

Dimension
91.6*111.4*139.2mm

Q30T Pro

30x Optical Zoom Object Tracking Gimbal Camera

EO Imager sensor
1/2.8" STARVIS2 CMOS Sensor, 30x optical zoom, 2.13MP

Object Tracking
√

Output
1080 Micro HDMI / IP / SDI

Power
14.8V~25.2V(8.8W, Max.20W)

N.W.
811g

Dimension
104.9*128.2*180mm

U30T

30x Optical Zoom Object Tracking Gimbal Camera

EO Imager sensor
1/2.8" STARVIS2 CMOS Sensor, 30x optical zoom, 2.13MP

Object Tracking
√

Output
1080 Micro HDMI / IP / SDI

Power
14.8V~25.2V(8.3W, Max.16W)

N.W.
717g

Dimension
115.8*103.5*145.2mm

Z36T Cube

36x Optical Zoom Starlight Level Night Vision
Object Tracking Gimbal Camera (Starlight level)

EO Imager sensor
1/2" CMOS Sensor, 36x optical zoom, 2.13MP

Object Tracking
√

Output
1080 Micro HDMI / IP / SDI

Power
16V(9.3W, Max.18.4W)

N.W.
842g

Dimension
105.3*187.6*176.7mm

Specialized Payload and Gimble Series

L4 Pro

3-axis stabilized gimbal searchlight

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

G1-Trace

Antenna Tracker for Data and Image Transmission Linkage Antenna

Horizontal rotational speed: <360°/s
Pitch rotational speed: <65°/s
Horizontal rotational angle: Unlimited
Pitch rotational angle: -15°~+160°
Drive voltage: DC12V-15V
Operating temperature: -20°C~+60°C
Average power consumption: <15W
MAVLINK protocol: Compatible with PX4/APM
Power: Universal drone battery (4S~6S)

M120 Pro

4G Loudspeaker

Power: 25W
Maximum sound pressure: 124 dB
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

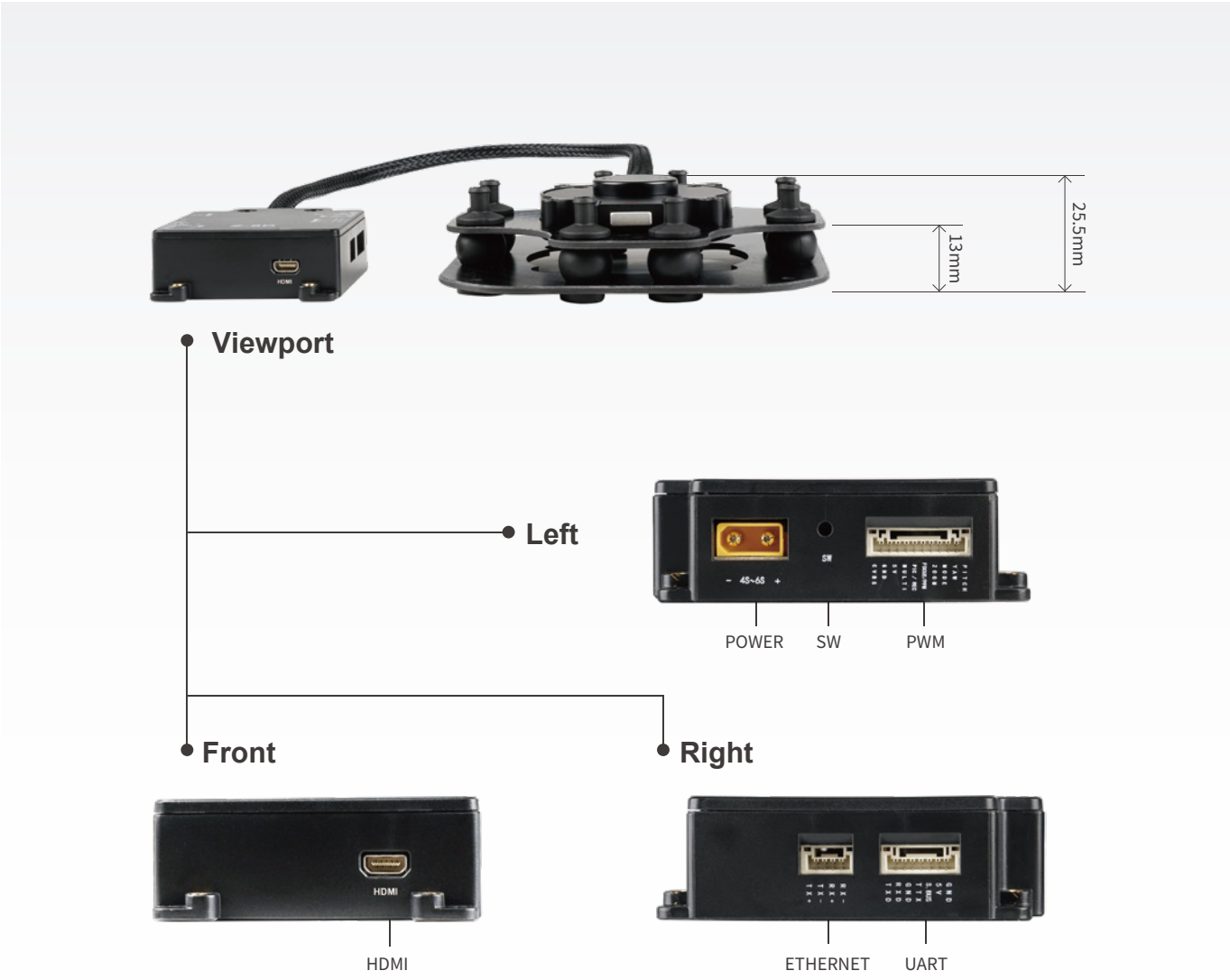
Support Sony ILCE a6000
HDMI signal is routed internally from the bottom to the top of the gimbal
Gimbal function: supply power, photo shoot,record, zoom, etc
Control method: UART/PWM/PPM/S.BUS
N.W.: 550g

Viewport

Plug and Play Quick Setup
and Release

- Compatible with full range of our cameras
- Net weight: 140 grams
- Quick release board size: 100*100*25.5mm
- Control box size: 48.4*56.2*14.2mm

Viewport Overview

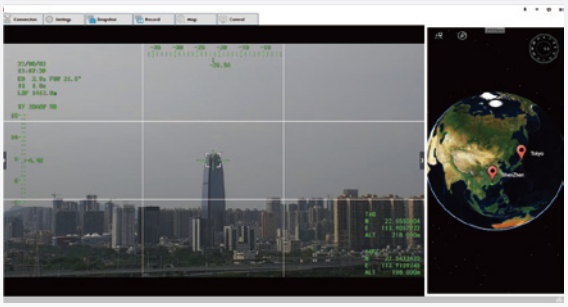


BlueEye Overview

BlueEye is a professional and user-friendly gimbal control software developed by V-UAV. It supports IP (RTSP/UDP/RTMP) and USB connections. Its built-in video player is intelligently optimized based on the user's computer configuration, providing an ultimate viewing experience with smooth and delicate visuals. Additionally, it supports multi-stream pulling, virtual nine-grid lines for balanced visuals. It can connect to Ethernet TCP/UDP or serial port TTL for gimbal control, enabling features such as gimbal firmware upgrades, encoder settings, 3D map visualization, KLV playback, flight path recording, live streaming, joystick configuration, OSD settings, remote control settings, file saving, extended commands, and general settings etc.

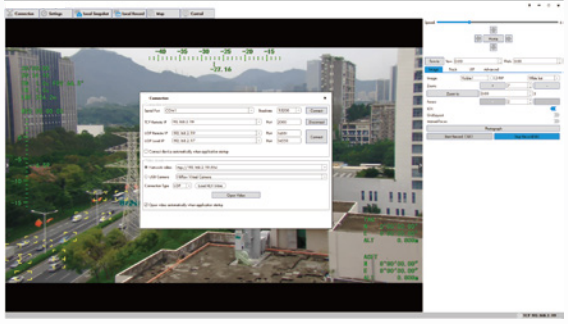
Windows

Map



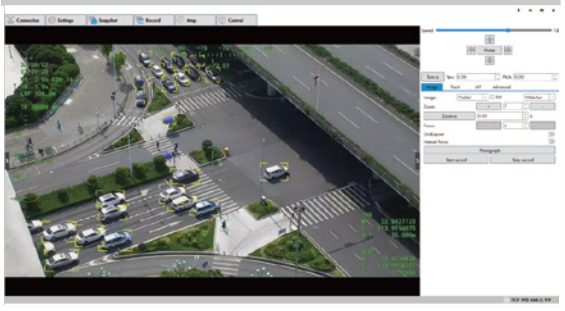
Location

Connection

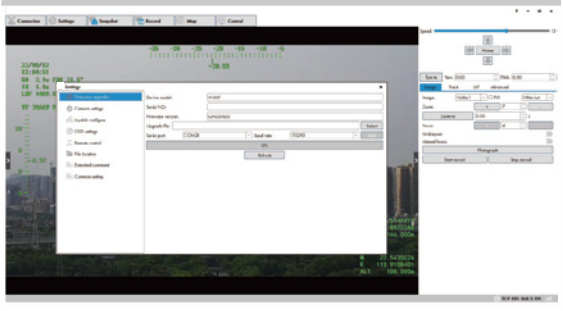


KLV Info

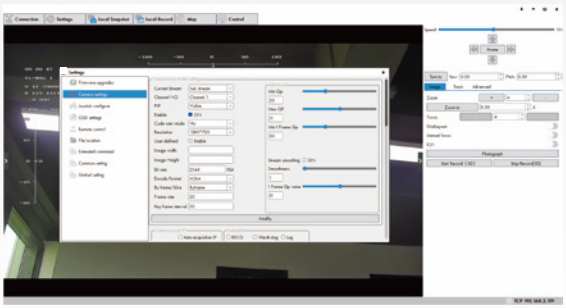
Image



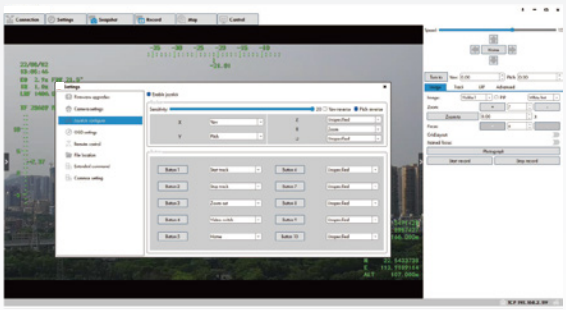
Firmware upgrades



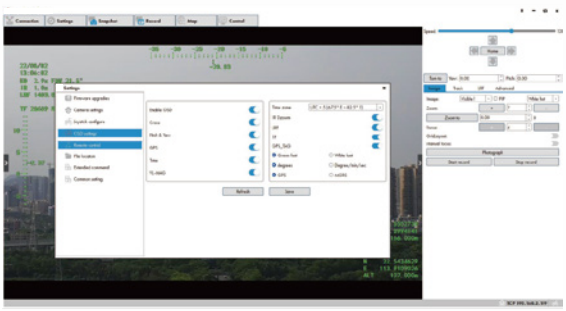
Camera settings



Joystick configure



OSD settings



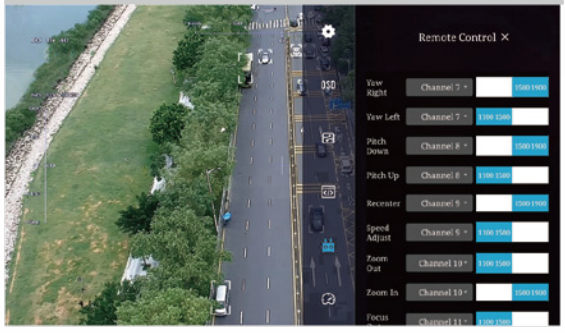
Remote control

Android

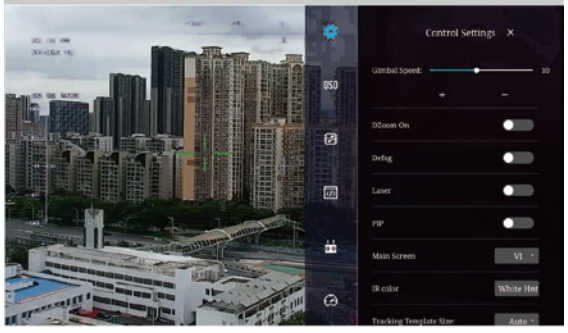
Log in

Device Info

Remote Control



Control Settings



Main interface

Main interface

VStation Overview

VStation is an Android terminal APP designed for drones. Through the careful design and Technical implementation, it brings the unprecedented smooth experience to the users, and the features as below.

1. Support the image preview and control of V-UAV gimbal camera.

2. Amap, Google map Optional.

3. Add voice broadcast which can broadcast the status of aircraft in real time.

4. Compatible with a variety of image transmission access.

5. Task type, parameter list, etc.

6. Compatible with APM flight control and PX4 firmware (lower version may not support).

7. Support multi-rotor and fixed-wing.

8. Support flight data (altitude, speed, position, battery level display, signal strength, number of satellites).

9. Support calibration (accelerometer calibration, gyroscope calibration, magnetic compass calibration).

10. Support flight control settings (aircraft type, fail-safe, receiver type, GPS, voltage, current, voice broadcast).

11. Support parameter setting (basic parameter and advanced parameter setting).

12. With EKF status displayed, the health status of the flight controller can be clearly known. The version of flight controller version must be above AC3.3.

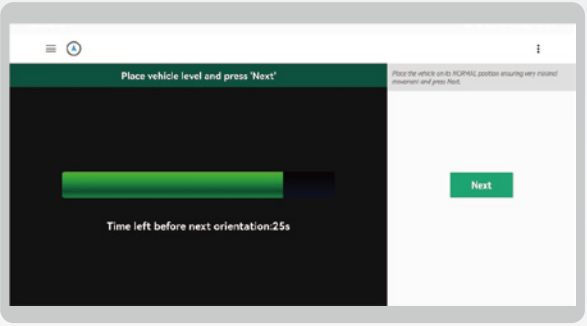
13. Latitude and longitude, UAV attitude information can be displayed.

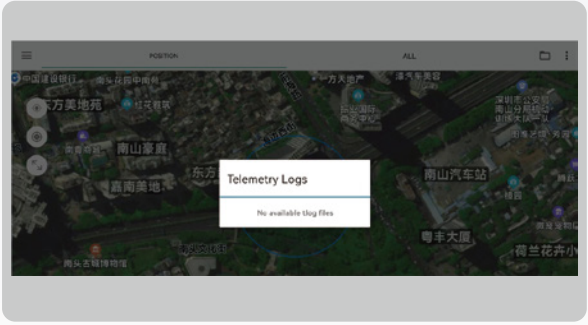
14. Follow (GPS follow), pointing, surround, real-time change the location of the home to the appointed location and other functions.

15. Route planning, the aircraft can fly autonomously under the guidance of GPS.

16. Log record, the flight data of the aircraft can be collected and saved in the mobile phone as a file, the user can review the log of the aircraft after the flight.


南山豪庭
南美地
东方新地
海岸时代公寓
深南大道
南山汽车站
粤丰大厦
荷兰花卉
USB


Place vehicle level and press 'Next'
Time left before next orientation:25s
Next


Telemetry Logs
No available log files


Vehicle Data
Editor
Vehicle History
Parameters
Checklist
Accelerometer Calibration
Compass Calibration
Flight Mode


8
WAYPOINT
Altitude
Delay before next waypoint
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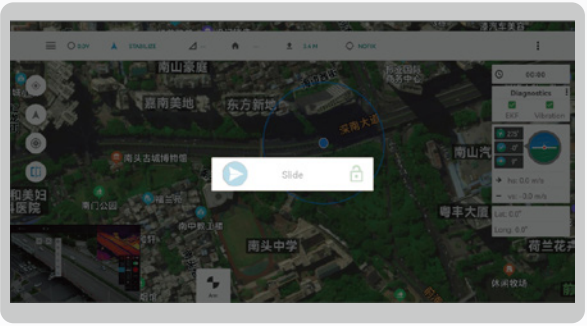
Slide
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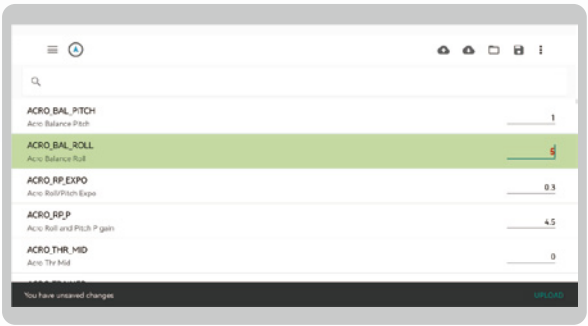
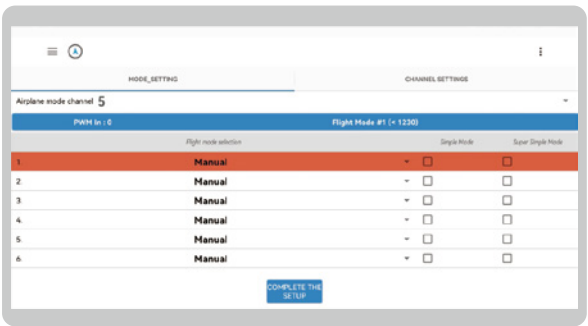
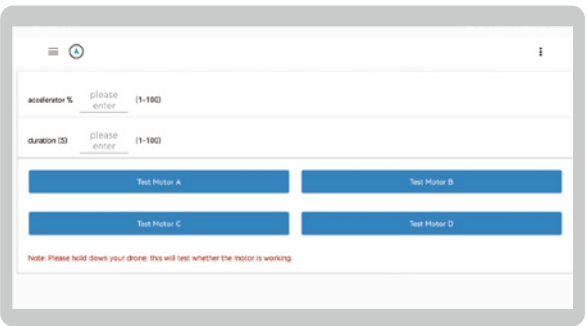

ACRO_BAL_PITCH
ACRO_BAL_ROLL
ACRO_RP_EXPO
ACRO_RP_P
ACRO_THR_MID


User Checklist
Control Surface
System Checklist
Telemetry connection


Airplane mode channel 5
Manual


accelerator %
duration (S)
Test Motor A
Test Motor B
Test Motor C
Test Motor D

V-UAV

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Pictures are for reference only. The final product shall prevail.

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