UPO -06

Two axis optoelectronic pod

30-bit Optical zoom

IR Thermal Vision

Track Pointing

Support PIP

Infinite Circle Rotation

Suitable for high speed flying fixed wing

Thermal Temperature Vision

40x Optical Zoom

Point zoom tracking

HD Imaging

2 axis stability

HDMI video output

Physical parameters

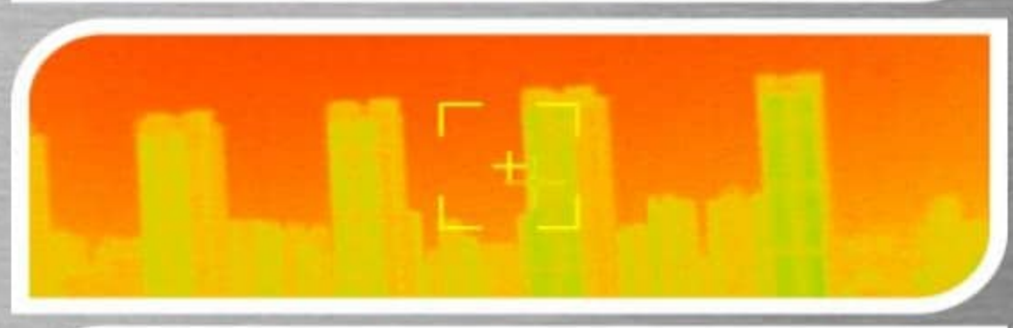
Diameter	113mm
Weight	<900g
Dimesnion	113*113*169mm
Power supply	12V DC input
Power consumption	<15W
Velocity range	Max rotation angular velocity 120°/s; Min stationary angular velocity ≤1°/s
Angule range	Pitch +30°~-90°, Yaw ±170°

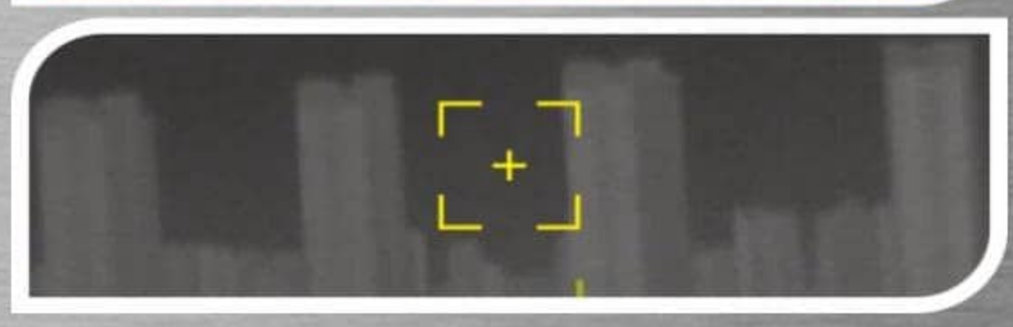
A

Visible light parameter

Video record	1920*1080
Optical zoom	40x
Pixel	2 million
Lens	focal length F=2.9~116.0mm
Anti-shake	AIS advanced image stabilizer

B





Video record 1920*1080	Frame frequency 50Hz	Diameter 170mm
Working temperature -20°C~50°C	IR Resolution 640*480	Weight ＜1.9kg
30x optical zoom	Wavelength range 8~14μm	Dimension 170*186*240mm
2 million pixels	Power consumption 2.5W	Stability accuracy ＜ 0.1°
F=4.3~129.0mm	AIS image stability	Image output ＜50ms
RF distance 5-2000m	Resolution 0.5m	905nm pulse laser
Divergence angle 3 milliradian	Laser pulse frequncy 1HZ	Pitch +30°~-90°
		Roll ±30° Yaw ±360°

Point zoom tracking

30x optical zoom

Laser Range Finder

UPO-25 EO/IR/LRF Camera

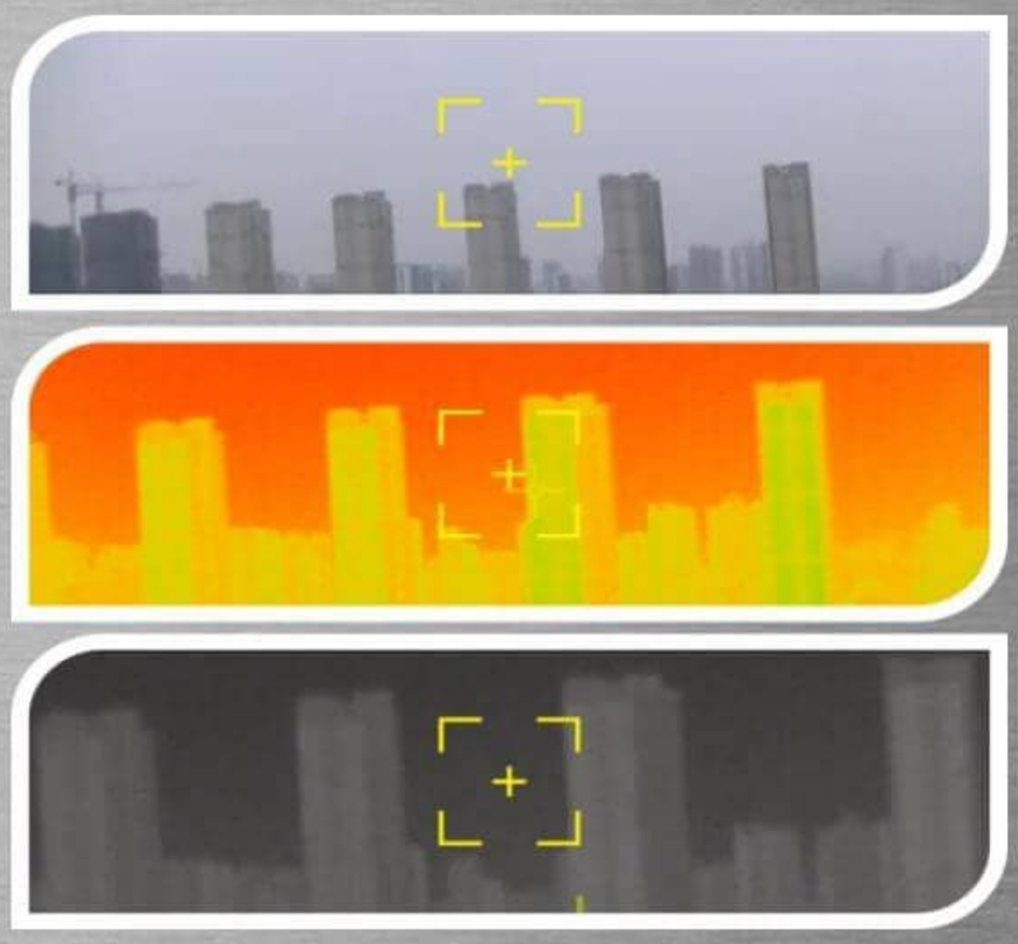
Two-Axis 360° Stable System
30X Optical Zoom HD Camera
25mm 640*480 Thermal Imaging
3000m Laser Range Finder
EO/IR Target Tracking

Performance Parameters	
Dimension	180mm*180*240mm
Diameter	180mm
Weight	2000g
Stabilization System	2-axis (Pitch +30°~-90°/ Yaw ±360°)
Stabilization Precision	Better than 0.1 degree
Velocity Range	Max rotate angular velocity: 120 ° /s;
Power supply	12V DC, power consumption less than 15w

Visible Light Parameter	
Optical Zoom	30X Zoom
Sensor	1/2.8" high quality HD CMOS Sensor
Pixel	16:9 2.13million Pixel
Storage media	SD / SDHC memory card
Anti-shake function	AIS Advanced Image Stabilizer
Operation temperature	0°C to 45°C
Storage temperature	-10°C~60°C
Focal Length	4.3-129mm
FOV	2.3°~63.7°
Min illumination	0.0008Lux
Video Record	HD 1920*1080 record
Video Format	1080P
Protocol	TCP/IP、UDP、RTP、RTSP、RTMP、RTCP、
ONVIF protocol	Standard ONVIF protocol

640,25mm Thermal Imaging Parameter	
Pixel	640*480
Power consumption	2.5W
Image noise reduction	Digital filtering
Working Form	Uncooled long wave（8μm-14μm）
Pixel Size	17μm
NETD	⩽50mk（@25°C）
MRTD	⩽550mk（at characteristic frequency）
Image Enhancement	Automatically adjust image brightness and
Frame rate	50Hz
Color option	Black, white, pseudo-color
Tracking Velocity	±32Pixel/field
Target Size	8*8-128*128 pixel
Operation temperature	-40°C to 60°C
Storage Temperature	-40°C to 65°C
FOV（°）	19.5x14.7
Electronic zoom	2/4/8/16

3000m LRF Parameter	
Range	5-3000m
Resolution	0.5m
Operation temperature	-20°C to 60°C
Beam	905nm pulse laser
Beam Divergence	3mrad
Laser pulse frequency	1HZ
Power	<1mW, eye safe

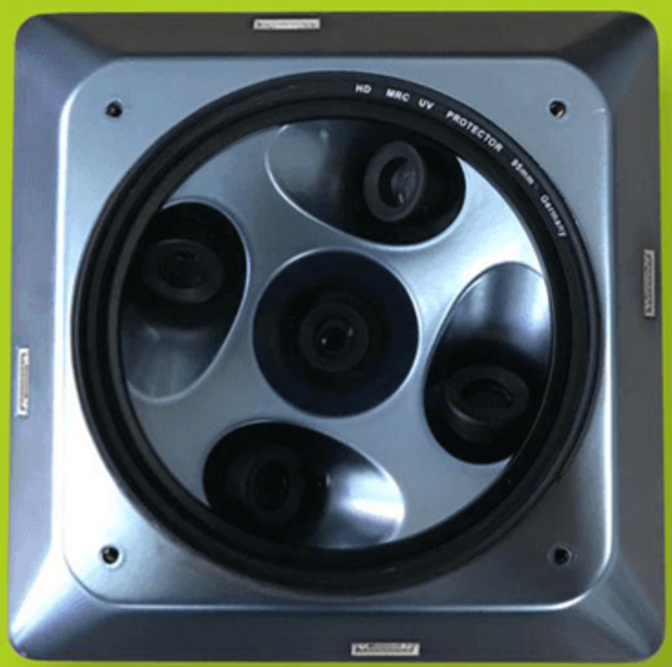


Video record 1920*1080	Frame frequency 50Hz	CMOS Sensor
Working temperature -20°C~50°C	Resolution 640*480	Weight ＜890g
10x optical zoom	Wavelength range 8~14μm	Dimension 140*110*140mm
2 million pixels	Power consumption 2.5W	Stability accuracy ＜0.1°
SD/SDHC memory card	Image denosing digital filtering	Rotation angular velocity ⩽120°/s
AIS image stability	Image output ＜50ms	Min stationary angular velocity ⩽1°/s
F=3.3~33.0mm	Digital zoom 2/4/8/16x	Pitch +30°~-90°
		Yaw ±360°

Point zoom tracking

10x optical zoom

Yaw ±360°



Five-lens oblique camera operation instructions are as follows

Make sure all switch buttons are pop-up

1. Turn on the camera power and the indicators of all switch buttons will be on
2. Press the Switch button
3. After 3 seconds, press the Latch button. After all indicators flash and off, press the Latch button once more until all indicators do not flash.
4. Press the Test button and all indicators will be on as normal status.
5. Manually operate the camera shutter with the remote control. All the indicators will light up and be off, then it is ready for operation after takeoff.

This port does not support hotplug

Operation steps of camera shutdown after landing are as follows

1. Press and pop-up the Latch button
2. Press and pop-up the Switch button
3. Remove the SD card to copy data after power off.

Technical Parameter

Adaptive Flight Altitude	20-300m
Adaptive Flight Speed	0-15m/s
Sensor	CMOS
Sensor Size	23.5*15.6mmAPS-C
Focal lens	35mm
Lens Angle	45degree
Single Pixel	24.3Mega
Total Pixel	120Mega
Min Exposure Time	1.5s
Storage	160-640G
Read Speed	78M/S
Power Input	15-35V
Operating Temperature	-10°C~40°C

Differential module	XED-F9P
Satellite Frequency	GPS L1/L2 GLONASS L1/L2 BEIDOU B1/B2 GALILEO L1/L2
Positioning Accuracy	2cm
Base station	Local/Network
Antenna	2.4GHz WIFI 802.11b/g/n
POS Storage	512MB