



## OV-BISPECTRAL/GIRO 19

- Caméra IP spéciale pour drone, girostabilisée avec 2 capteurs [thermique + visible]
- 640x480 en IR Thermique + 2MP zoom 10x en Visible



### 1. Features

- > 1 Channel Thermal and Visible Video complex stream.
- > One single Main Control Chip, more stable than double IP version products.
- > Smart tracking on both Thermal camera (Night) and Visible camera (Day)
- > 3-axis stabilized Pan-Tilt, High precision:  $\pm 0.01^\circ$
- > Support GPS info Overlay.
- > Support smart Auto-Tracking
- > Support Ai functions, face recognition, person/vehicle recognition, deep learning functions
- > Support Network, S.BUS and Serial port control mode.

#### Visible Camera

- > 1/3" Sony Exmor CMOS Sensor.
- > Powerful 10x optical zoom (5.1~51mm Lens), 32x Digital Zoom.
- > Max. 2MP(1920x1080) Resolution
- > Support Electronic Defog, Electronic Image Stabilization

#### Thermal Camera

- > 640x480 Resolution, high sensitivity sensor
- > 17um Pixel pitch.
- > 19mm Fixed Thermal Lens
- > Support Temperature measurement function

## 2. Specification

Model		T19	T19T
Sensor	Image Sensor	Uncooled aSi Microbolometer	
	Resolution	640 x 480	
	Pixel Size	17 $\mu$ m	
	Sensitivity	$\leq$ 50mk@25 $^{\circ}$ C	
Lens	Focal Length	19mm, F1.0	
	Focus	Athermalized, Focus-free	
	Angle of View	31.9 $^{\circ}$ x24.2 $^{\circ}$	
Temperature measurement	Measurement Range	N/A	-20 $^{\circ}$ C~200 $^{\circ}$ C (Expandable -20 $^{\circ}$ C ~+500 $^{\circ}$ C, 2 levels)
	Measurement Accuracy	N/A	$\pm$ 2 $^{\circ}$ C or $\pm$ 2% (Take large values)
	Measurement Tools	N/A	Display and track the Highest and Lowest temperature. Display the Center Point and Average temperature; Save global temperature data, and point temperature measurement.
<b>Visible Camera</b>			
Sensor	Image Sensor	1/3" Sony Starvis progressive scan CMOS	
	Effective Pixels	Approx. 2.12 Megapixel	
	Resolution	1920x1080	
Lens	Focal Length	5.1mm~51mm, 10x Optical Zoom	
	Aperture	F1.6~F1.8	
	Field of View	H: 54 $^{\circ}$ ~4.9 $^{\circ}$	
Minimum Illumination		Color: 0.05Lux/F1.6; B/W: 0.01Lux/F1.6	
Ai Functions		Face Recognition, Person/Vehicle recognition, Deep Learning functions	
<b>Video</b>			
Video Output		Network and HDMI	
Video Stream		25fps@1920x1080	
Image Mode		Visible, Thermal and PIP	
Storage		TF card (128 GB), could save video(.avi) and picture(.jpeg)	
<b>Pan-Tilt Gimbal</b>			
Angular Vibration Range		$\pm$ 0.01 $^{\circ}$	
Pitch		+90 $^{\circ}$ ~-15 $^{\circ}$	
Roll		$\pm$ 40 $^{\circ}$	
Yaw		$\pm$ 300 $^{\circ}$	
Stabilization		Support	
Control Mode		Network, S.BUS and TTL Serial port control	

Auto Tracking	Support
Tracking Mode	Support network protocol and TTL serial protocol
<b>Condition</b>	
Operating Conditions	-20°C~+60°C/20% to 80%RH
Storage Conditions	-40°C~+80°C/20% to 95%RH
Working Voltage	DC 12V~24V (3s~6s)
Working Current	Dynamic: 2000mA(@12V), Static: 500mA(@12V)
Dimensions(L*W*H)	Approx. 138mm*110mm*193mm
Weight	Approx. 750g

### 3. Dimension

