TFIP10T3 10x Optical Zoom Camera +Thermal camera 3axis Gimbal, Intergrated wireless video and control

TFIP10T3 is a 10x optical zoom gimbal camera integrating thermal camera, wireless video and data transmitter and high-precision three-axis stabilizing system. It adopts high-precision FOC control method, having advantages such as high stability, small volume, small weight, strong function. Daylight sensor has 4M effective pixels and can work under low light level. Thermal sensor uses 320*240 resolution, block slice design. It support local TF card record, dual video record synchronization, support thermal pseudo color switch, temperature measure, and the ground display and operation system support mouse control, picture in picture display. The device of air side only need power on and connect the antenna.

Note: This device include the ground receive device and control software.

Feature

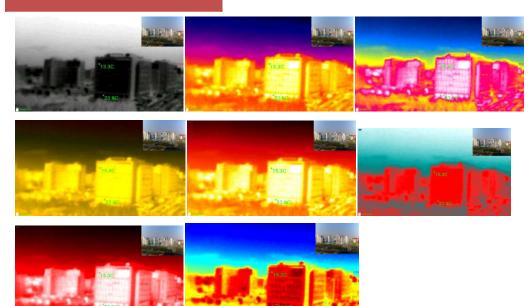
- > 10x optical zoom +thermal
- > Thermal pseudo color switch
- ➢ PIP mode display
- Intergrate 10Km video and data link
- ➢ 3 axis FOC Gimbal
- > UART or SBUS control
- ➢ OSD menu setting
- > Single TF, two video record



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TFIP10T3						
	Power Supply	3S or 6S (DC12V-26V)				
	Power Consumption	About 12W				
	Roll angel	-45° ~ +135°				
	Pitch angel	-120 [~] +120 [°]				
	Yaw angel	360° rotate				
Working	Jitter Angle	Pitch Direction $\pm 0.02^\circ$; Horizontal Direction $\pm 0.03^\circ$				
	Gimbal function	One-click restore to the initial position, support angel and speed control				
	Wireless link	Frequency 806MHz-826,default bandwidth 20M (can set 5M,10M)				
Status	Transmitting power &distance	25dBm 10KM distance				
	Transmitter mode	Bidirectional transmission, video and data in one link				
	Control mode	IP directly control (UART control option)				
	Feature	Ground system PIP display, pseudo color switch, temperature measure				
	Sensor	1/3 4M Pixels CMOS sensor				
	Zoom	10x optical zoom, f= 4.9to49 mm \pm 5%				
	AF Time	Support quick auto focus, timelapse< 1 sec				
Visible	Video Output	RTSP 1080P 30fps IP output, Local TF record				
Light		D : WIDE 66.6° $\pm5\%$ TELE 7.2° $\pm5\%$				
Camera	FOV	H : WIDE 53.2° ± 5% TELE 5.3° ± 5%				
		V : WIDE 39.8° \pm 5% TELE 4.2° \pm 5%				
	Mode	1080P 30fps				
	Resolution	320*240 pixel				
	Pix Spacing	12 µ m				
Infrared	Туре	Uncooled Micro Bolometer IR FPA Fabrication				
Light	Wave length	$8{\sim}14~\mu$ m				
Camera NETD ≤65mk@30°C		≪65mk@30℃				
	Field Angle	6.5mm Lens; Angle: 36.4x24.2				
	Measurement	Center point, highest temperature, over-temperature alert				
Device Size		L150*W108*H180mm				
Work Condition		-10℃ to +45℃ / 20% to 80% RH				
Storage Condition		-20℃ to +60℃ / 20% to 95% RH				
Function		Aerial photograph				
	Weight	610±20 g				

Pseudo-Color Switch



Picture-in-Picture HDMI



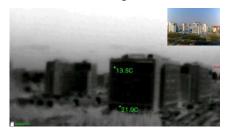
Split screen



Visible light only



Visible light +thermal



Thermal + visible light



Thermal only
Connection
Pin 1
Power 3S/6S

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No	Part	Туре	Define	Describe
1	8P port	power	GND	GND
2		power	5V	+5V output
3		signal	S/I BUS	SBUS input
4		signal	TXD4	UART4_Tx(reserve)
5		signal	DB-	IP net
6		signal	DB+	IP net
7		signal	DA-	IP net
8		signal	DA+	IP net

8P Testing port signal define:



The Pod mount distance is 100mm*100cm. hole size is M2.5

*Note: Device may change structure due to product update. Please connect to topotek company to get newest datasheet.