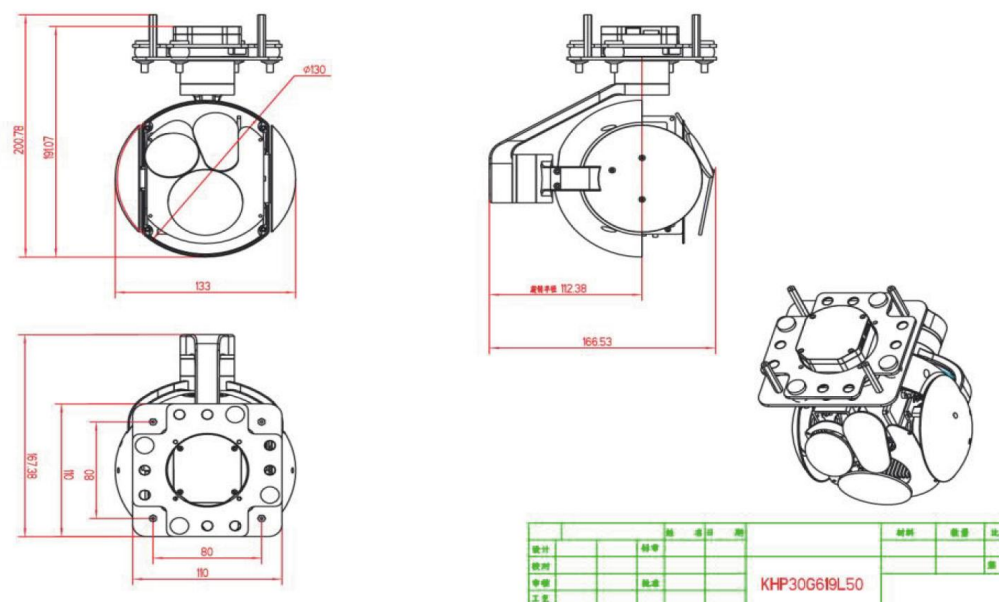


Features

- 270x mixed zoom^①
- Four picture-in-picture modes
- 19mm focal length 640 thermal imaging
- Single TF card, dual synchronous video recording
- 5000 m laser ranging
- Ten false color patterns
- Network, serial port^② synchronous control
- Three axis enhanced stability pod, 1110±20g

System composition



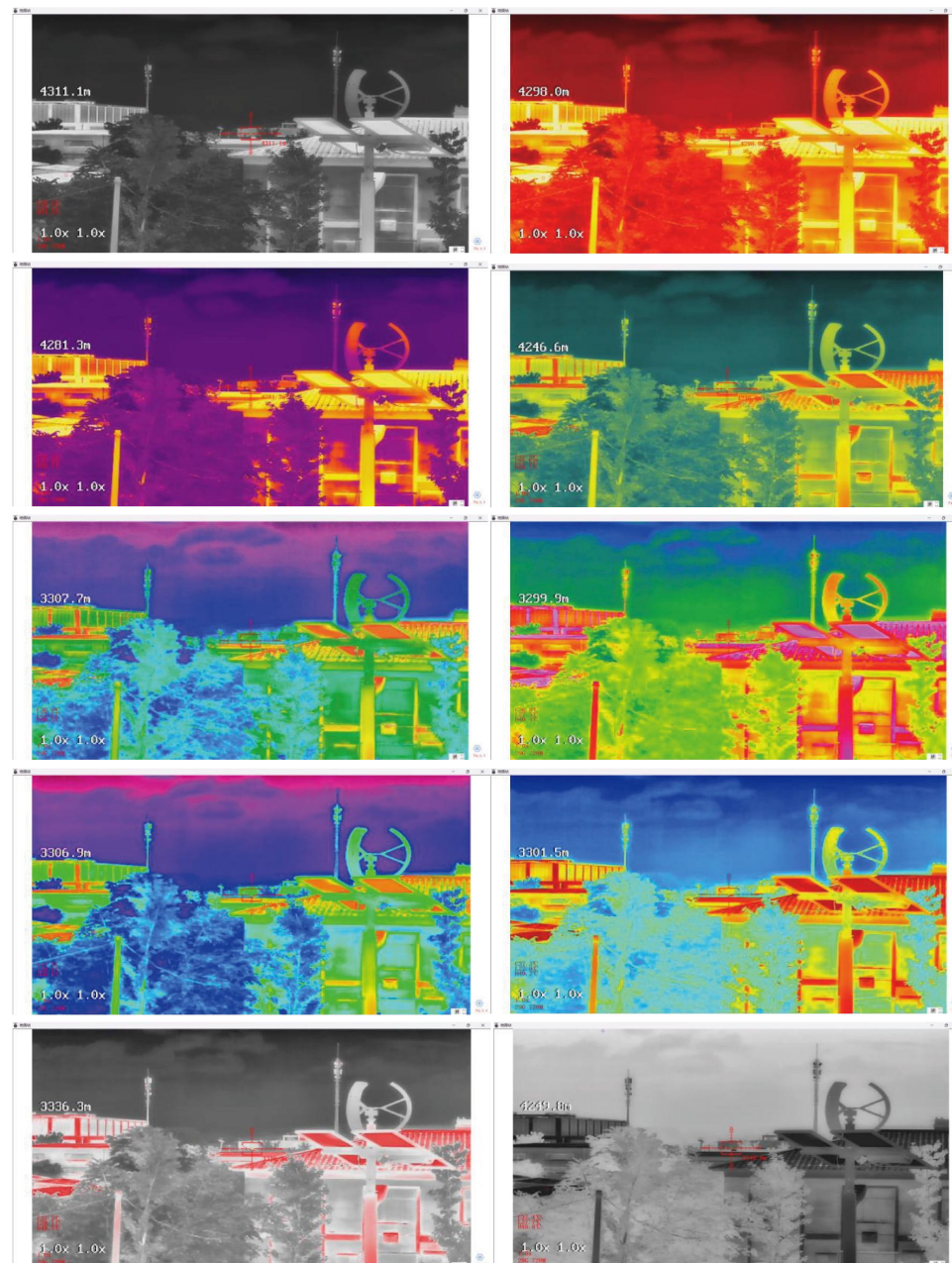
NOTE^①: 270x hybrid zoom means: 30x visible light optical zoom + 9x digital zoom.

NOTE^②: The serial port refers to: 3.3V LVTTTL UART.

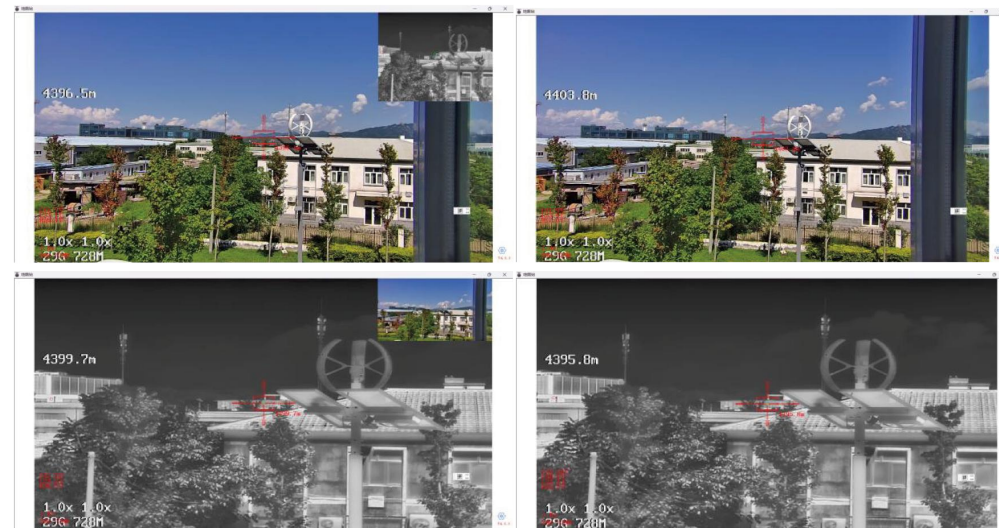


Voltage		DC12V-26.2V
Power Consumption		Dynamic 10W
Gimbal	Roll Angle	- 45° ~ + 45°
	Pitch Angle	-30° ~ +120°
	Yaw Angle	-280° ~ +280°
	Gimbal Mode	Support gimbal Lock/Follow mode; One-click return to the initial position
	Control method	Speed self-adaption and controllable, external control of IP network or TTL serial
Visible Light Camera	CMOS Size	1/2.8inch 2MP wide dynamic range CMOS SENSOR
	Optical Zoom	30x Optical Zoom, f=4.5~135 mm ±5%
	Focusing Time	Real time fast focusing, focusing time < 1s
	Video Output	IP/HDMI output; RTSP 1080P video stream, Local TF 1080P recording
	Field Angle (FOV)	D : WIDE 67.8°±5% TELE 2.77°±5% H : WIDE 59.8°±5% TELE 2.34°±5% V : WIDE 40.5°±5% TELE 1.48°±5%
	Support mode	1080P 30fps
Laser Range	Laser wave	1535±10nm safety for eyes
	Detect range	50--5000m
	Accuracy / Resolution	Accuracy ±1m; Ranging resolution ≤ 440m
Thermal imaging	Resolution	640*512 pixel
	Pixel spacing	12μm
	Type	Uncooled infrared microbolometer camera
	Wavelength range	8~14μm
	Thermal sensitivity (NETD)	≤50mk@F1.0@25℃
	Contrast ratio, Pseudo color	Adjustable, multiple pseudo color modes switch
	Field Angle	19mm Lens. Angle: 22.9°× 18.4°
	Measurement (Optional)	Center point, highest temperature, lowest temperature, all area temperature display
Device Size		Φ: 225mm H:191mm
Work Condition		-20℃ to +45℃ / 20% to 80% RH
Storage Condition		-30℃ to +60℃ / 20% to 95% RH
Application		UAV aerial photography
Weight		1110±20g

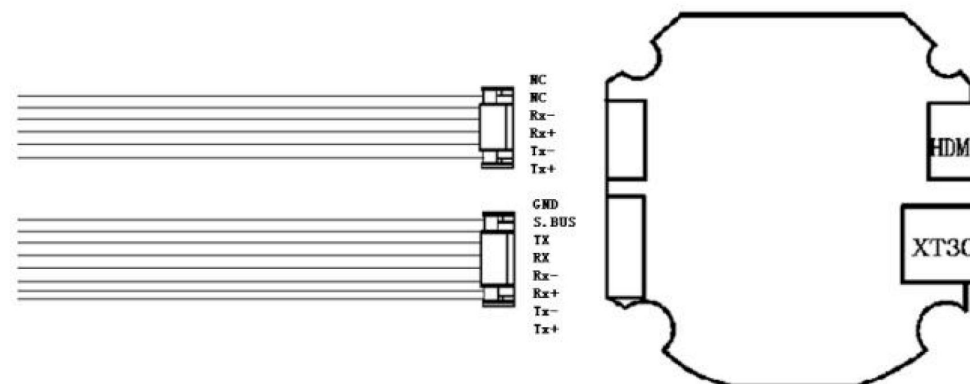
Pseudo Color mode



Picture in picture mode



Connection application diagram



No.	Types	Interface type	Interface definition	Function
1	6PIN	Communication interface	NC	Reserved interface
3		Communication interface	Rx-	Network interface
4		Communication interface	Rx+	Network interface
5		communication interface	Tx-	Network interface
6		Communication interface	Tx+	Network interface

No.	Model	Interface Type	Interface definition	Function
1	8PIN	communication interface	GND	GND
2		communication interface	S.BUS	S. BUS input
3		communication interface	TX	Serial port sending
4		communication interface	RX	Serial port receiving
5		communication interface	Rx-	Network interface
6		communication interface	Rx+	Network interface
7		communication interface	Tx-	Network interface
8		communication interface	Tx+	Network interface

Type	Interface Type	Function	Remarks
Mini_HDMI	HDMI	Video output interface	
Memory card interface	TF	Upgrade and store data	The memory card interface is on the sphere

*Due to the product upgrade, the appearance / size / weight / power consumption may change slightly. Please contact the sales department for the latest data. Thank you for read our product.

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