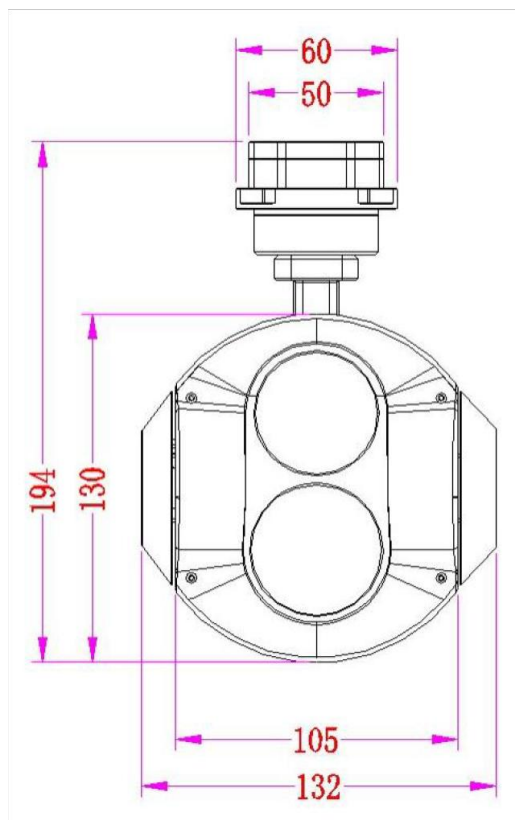


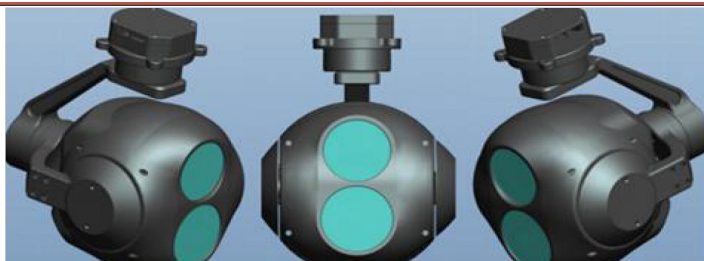
Function Future

- 140x mixed zoom^① camera
- 1280×1024 Thermal Imaging
- Ten pseudo color modes
- Four Picture in Picture Modest
- Ethernet/HDMI dual output
- Photo and video record, TF card storage
- 3-Axis stabilized gimbal
- SBUS/UART/UDP/PWM control

Device Structure



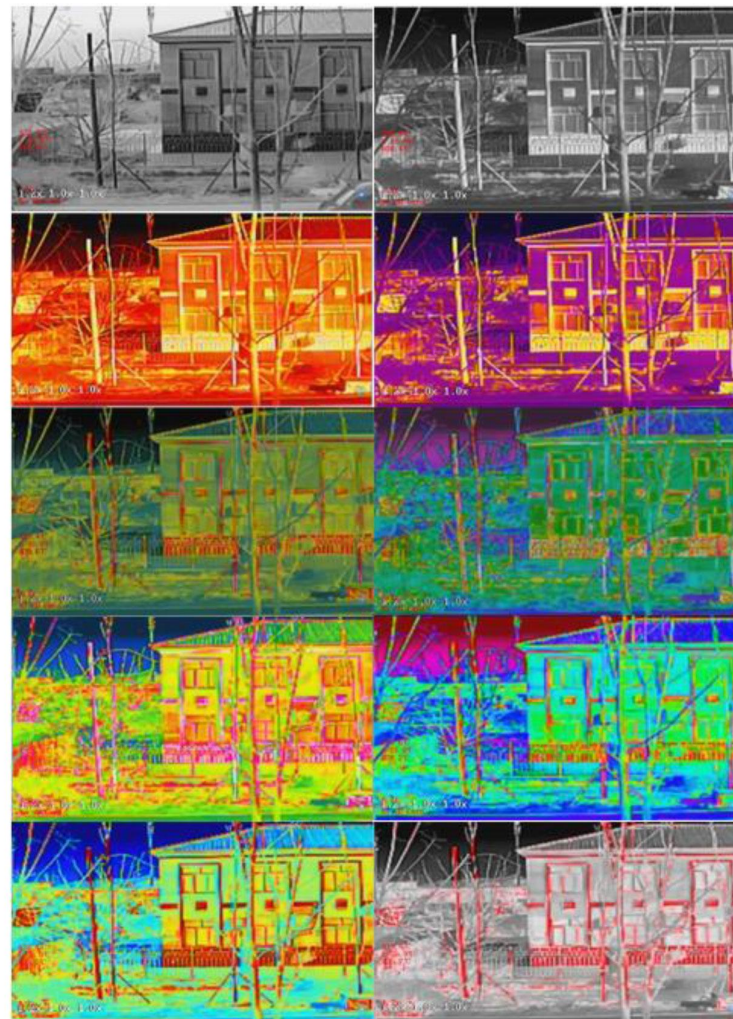
NOTE^①:140x mixed zoom:20x optical zoom+7x digital zoom



Voltage and Power Supply		DC12V-26.2V, Dynamic 8W
Working Status	Roll Angle	-45° ~ +45°
	Pitch Angle	-45° ~ +120°
	Yaw Angle	-290° ~ +290°
	Angle jitter in Pitch and Roll	±0.02°
	Horizontal angle jitter	±0.03°
	One click return function	One-click automatic quick return to the initial position
	PTZ control speed adjustable	When the PTZ rotates, the speed is adaptive based on the current speed mode and the multiple of the visible camera.
	Control mode	Support UDP/UART control (optional SBUS and PWM control)
Visible Light Camera	sensor	1 / 1.8 Inch 8 mega pixel High sensitivity, high dynamics CMOS sensor
	Optical Zoom	20x HD optical zoom lens, f=6.7±5%~125±5%mm
	Digital Zoom	7x Digital Zoom
	Focusing time	Real time focusing, fast focusing time < 1s
	Video output	IP/HDMI output 4K/1080p video stream, local TF card storage
	Field Angle(FOV)	D : WIDE 66.6±5% TELE 4.0±5% H : WIDE 59.6±5% TELE 3.5±5% V : WIDE 35.7±5% TELE 2.0±5%
	Support Mode	4k, 1080P 30fps
Thermal Camera	Resolution	1280×1024
	Digital Zoom	9x Digital Zoom
	Pix Spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength coverage	8~14μm
	Thermal sensitivity NETD	≤50mk@25°C@F1.0
	Video output	Ethernet/HDMI
	Field angle	35mm lens, FOV: 25.1°×20.1°
Measurement function (optional)		Center point, highest temp and lowest temp display; Support global temp measurement
Device Size		132mm×161mm×194mm
Working Condition		-10°C to +55°C / 20% to 80% RH
Stored Environment		-20°C to +60°C / 20% to 95% RH
Main application		UAV aerial photography
Weight		1570±10g

Multiple Pseudo-color mode

Multiple pseudo color modes are displayed, can be switched through command cycle. As shown in the below:



Picture in picture switching



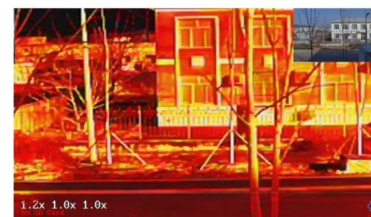
Visible light



Visible light +Thermal infrared



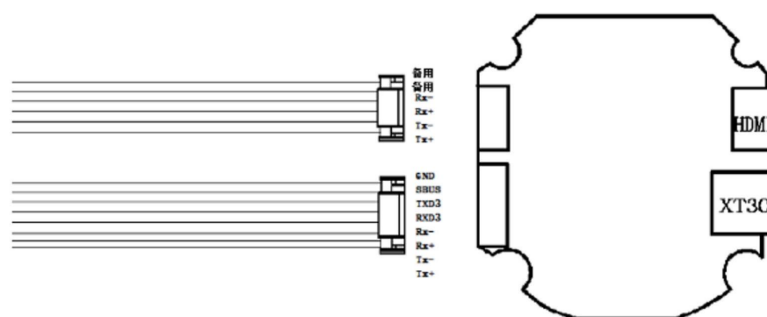
Thermal infrared



Thermal infrared + Visible light

4 picture in picture modes are supported: Single visible mode; Visible light large image + thermal imaging small image mode (default mode); Single thermal imaging mode; Thermal imaging large image + visible light small image mode;

Connection application diagram



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