JIYI 5G TRANSMISSION DUAL-LIGHT POD INSTRUCTION

Product Name: JIYI 5G DUAL-LIGHTS POD
Model: JIYI-IVC1-5G
Brief Introduction:

JIYI 5G dual light pod is composed of dual light pod and 5G long-distance high-definition image transmission. It is a 5G networked dual light pod specially built by JIYI for high-end industrial UAVs. The pod breaks the traditional distance limit of remote control and image transmission, and easily realizes 1080P HD real-time image transmission beyond the visual range; Support 5G networks of China Mobile, China Telecom and China Unicom. The end-to-end image transmission delay is as low as 300 milliseconds.
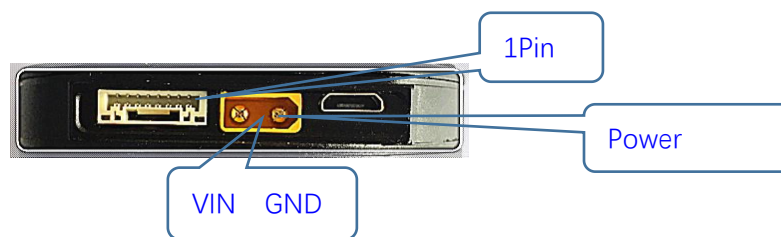
Features:

1. 30 times visible light + 640 thermal imager
2. Multiple thermal imaging colorized modes
3. Three axis stabilized PTZ
4. 5G Long distance low delay transmission
5. Modular design with strong expansility

Product parameters：

Voltage		3S / 6S
Power Supply		Dynamic7.5W
Working Status	**Roll Angle**	-45~+45°
	Pitch Angle	-45~+135°
	Yaw Angle	360° Stepless rotation
	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 network IP control and serial port control (optional SBUS and PWM control)
Visible Light Camera	CMOS Size	1 / 2.8 Inch 2 mega pixel wide dynamic CMOS sensor
	Optical Zoom	30x HD optical zoom lens, f=4.5±10%~135±10%mm
	Focusing time	Real time focusing, fast focusing time < 1s
	Video output	Network HD RTSP output 1080p, video stream local TF storage
	Field Angle(FOV)	D : WIDE 67.8º±5% TELE 2.77º±5%
		H : WIDE 59.8º±5% TELE 2.34º±5%
		V : WIDE 40.5º±5% TELE 1.48º±5%
	Support Mode	1080P 30fps
Thermal Camera	Resolution	640*512　pixel
	Pix Spacing	12µm
	Type	Uncooled vanadium oxide
	Wavelength coverage	8 ~ 14µm
	Thermal sensitivity NETD	≤50mk@25℃@F1.0
	Video output	Network IP output

	Field angle	19mm lens, FOV: 22.9x18.4 (SIP30G619)
		or 13mm Lens, FOV: 32.9x26.6 (SIP30G613)
	Measurement function (optional)	Center point, maximum temp and minimum temp display;
		Support all area temp measurement
	Device Size	120mm×155mm×175mm
	Working Condition	-10℃ to +45℃ / 20% to 80% RH
	Stored Environment	-20℃ to +60℃ / 20% to 95% RH
	Main application	UAV aerial photography
	Weight	980±10g

Connection application diagram

No.	Model	Interface Type	Interface definition	Function
1		Power interface	GND	GND
2		Power interface	5V	+5V Output
3		communication interface	RxD4	Serial port receiving
4	8PIN	communication interface	TXD4	Serial port sending
5		communication interface	DB-	Network interface
6		communication interface	DB+	Network interface
7		communication interface	DA-	Network interface
8		communication interface	DA+	Network interface

*Due to the product upgrade, the appearance / size / weight / power consumption may change slightly. Please contact the sales representative for the latest data.

Instructions:

1. Confirm that the product has been activated (default factory activation).
2. Connect the power module, 5G image transmission and dual light pod according to the instructions of each interface of the product.
3. Power supplied.
4. Use a computer connected to the wired network, install the JIYI 5G image transmission client end, input the pod address to display the pod image and control the pod on the client end.