

RHYTHM 2L





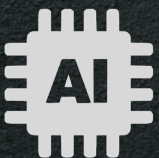
RHYTHM 2L



- 3-Axis payload, 3- Optical sensors inspection camera
- High-Precision 6-Axis MEMS MotionTracking® IMU
- 4K 30 zooming EO camera



- Support 1.2 KM target range finder
- Support target location process



- Support AI algorithm model customization

Payload	RHYTHM 2L
Use cases	Inspection, Surveillance, Rescue
General	
Weight	800g
Size	150*112*153mm
IP rating	IP44
Power input	24V, 10W to 24W
Operating Temperature	-10°C to 50°C
Gimbal control range	Pitch: -90° to +20° Pan: 360° limitless
Mount type	P- Mount
Min control accuracy	1 degree
Angel control accuracy	±0.01°
Downlink stream	RTSP: http://192.168.2.117:EO
File servicer	Support
Geo-tag	Support
Target location processing	Support
Protocol	MAVLINK 2.0
Edge computing performance	
SOM	Nvidia Xavier NX 16G
AI performance	21 TOPS (INT8)
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
GPU Max Freq	1100 MHz
CPU	6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6MB L2 + 4MB L3
CPU Max Freq	2-core @ 1900MHz 4/6-core @ 1400Mhz
Memory	8 GB 128-bit LPDDR4x @ 1600 MHz 51.2GB/s
Storage	16 GB eMMC 5.1

EO camera	
Sensor	4K Exmor R CMOS Sensor SONY 1/2.5 CMOS 8.51 MP Recommended illumination : 100 to 100000 lux
Lens	Lens:f = 4.4 mm (Wide), 88.4 mm (Tele) A: F2.0 to F3.8 Zooming focal length: 80 mm (Wide end), 800 mm (Tele end) f = 4.4 mm (Wide), 88.4 mm (Tele) Approx. 70.2 degrees (Wide end, Image stabilizer Off) Approx. 4.1 degrees (Tele end, Image stabilizer Off)
Zooming	30 optical zooming , 90 Hybrid zooming without quality lose
Focus	MF/AF-C/AF-S Full Auto, Shutter Priority, Iris Priority (26 steps), Manual, Bright, Exposure Compensation, Slow AE, Back Light Compensation, Slow Shutter - Auto/ Manual,Max/Min shutter limit
EV compensation	Auto/ Manual -10.5 to +10.5 dB (1.5 dB steps)
Noise reduction	6 steps (3DNR , 2DNR 3DNR separate mode)
Spot AE	Point support
Electronic shutter speed	1 to 1/10000 sec.
ISO	Auto/Manual/Max gain limit/High Sensitivity (0 to 48dB, 16 steps)
Video resolution	3840×2160@30fps
Video format	mp4
Image quality	3840×2160
Image format	Jpeg
Storage temperature/ Humidity	-20 to 60 °C/20 to 95 %
Operating temperature/ Humidity	-5° to 60°/20% to 80%
Range finder	
Wave	905nm (Class 1)
Measure range	5-1200 m(> D=12 m, 20%reflection rate)
Measure accuracy	6-60m ±1m, 70-100m±1.5m , 110-400m±2m, >400m ±0.4%m
Laser angle	4~10 mrad
Measure HZ	<= 1
Laser output size	6 mm
Reception size	17 mm