Detailed specifications

Material	Aerospace aluminum alloy
Pod dimensions	106.7×92.5×126.7 mm
Pod weight	479±10g
Operating temperature	-20℃～60℃
Storage temperature	-30℃～70℃
Protection level	IP43
Stable image axis	Three-axis (heading/pitch/roll)
Angle working range	-160°~160° (heading); -120°~30° (pitch); ±40° (Horizontal Roll)
Control signals	S.BUS, TTL serial communication, TCP, UDP
Input voltage	12V
Power	13W
Video interface	Network port
Gimbal working mode	Enable follow (default); Disable follow-up; One click down
Gimbal control mode	Speed control; Angle control; Pointing and moving; Target tracking
Image storage format	JPG
Video storage format	MP4
Video encoding type	H.264 / H.265

Video output format	1920*1080@30fps
Supports storage capacity	Mirco SD: 32GB (minimum) / 512GB (max)

Visible Light Module

Visible light pixels	48 million
Optical zoom multiplication	11 times
Mixed electron multiplication	176 times
Fog penetration function	Support
Sensors	1/2"CMOS
Focal length	Short focal length: 4.5mm, zoom 15~50mm
Optical zoom control mode	Speed control, multiple-rate control
Visible light field of view	Prime Focus: W: 23.2(H) 17.6(V) T: 7.2(H) 5.4(V) Telephoto: HFOV = 83.4°

Thermal Imaging Module

Thermal imaging sensors	Vanadium oxide is uncooled in the infrared focal plane
Thermal imaging focal length	13.5mm
Thermal imaging resolution	640*512
Pixel pitch	12 μm
Wavelength range	8~14 μm

Field of View (Horizontal× Vertical)	31.9° ×25.7°
Thermal sensitivity	≤40mK@25℃，F#1.0
Electron multiplication	1～8x
Palette	Black heat / white heat / color

Laser Distance Measurement

Ranging range	5～1500m
Distance measurement mode	Continuous distance measurement, single measurement
Laser wavelength	905nm
Distance measurement accuracy	±1m

AI Target Tracking Module

Automatically detects target types	Typical targets such as vehicles and personnel
Object detection rate	≥90%
Blocking time	1 second
Processing speed	≥30fps（@1080P）
Resistant to target distortion/occlusion	Automatic
Target switching tracking	Support
Target tracking mode	Identification tracking, feature tracking

Track the method of selecting targets	Guidance and tracking
Tracking automatically doubles	Support
Neural network computing power	10.0 TOPS