Long Range Three Sensor System

Technical data

Thermal detector	Detector type	Uncooled microbolometer focal plane array
	Effective pixel	640×512,17μm
	Spectrum range	8~14μm
	NETD	≤50mK@F1.0,300K
	Frame frequency	25Hz
	NUC	Auto/ manual/ background correction
	Image process	DDE, pseudo color
	Video output	PAL/NTSC
Laser range finder	Max range	10km (In the mode of mid-latitudes atmosphere,T=20℃, relative humidity 70%,1 standard atmospheric pressure, horizontal visibility>23.5km)
	Min range	100m
	Precision	±1m
	Repetitionfrequency	0.2Hz
GPS	Antenna	Built in
	sensibility	-165 dBm
	Precision	5 m
	Location speed	Under open sky conditions; Hot start 1 s; Warm start 35 s; Cold start 38 s: recapture <1 s
	Height	< 18,000 m
	Speed	< 515 m/s
	Acceleration	< 4 g
Pantilt	Load	50kg(top mounted)
	Pan angle	360° , continuous rotation
	Tilt angle	-45° ~+45°
	Pan speed	0.01° ~ 12° /s
	Tilt speed	0.01° ~8° /s
	Preset	255
	Preset precision	±0.1°
	Auto cruise	2 path, 64 presets each path
	Auto line scan	1 path
	Size	326mm×206mm×380mm(L×W×H)
	Anti-lightning	Power supply 4000V, video signal 2000V
Overall unit interface	Power interface	DC30V
	Network interface	1×10Base-T/100Base-TX RJ45
Environment indicators	Working temp.	-25℃~+55℃
	Storage temp.	-40℃~+65℃
	Protection	IP66
	Anti-salt fog	Comply with GB/T2423.17-2008
Power supply	Power supply	DC30V, equipped with wide range waterproof power adapter
	Powerconsumption	≤180W

◆ SHR-QIR300 Thermal Scope

Features

◆384×288 Uncooled microbolometer infrared focal plane arrays
◆High sensitivity,25Hz
◆Auto adjust brightness and contrast,manual nonuniformity correction
◆Low power consumption, quick start-up, stable performance, image with high uniformity
◆Digital Detail Enhancement (DDE) function; output white hot/black hot
◆High resolution OLED display.
◆Key Control,operate easily and fast
◆Rechargeable lithium battery, high battery endurance ability
◆Shock and vibration resistance structure
◆Differentiation indication,rough ranging,accurate observation and aiming of long-distance targets

Technical data

Model	SHR-QIR300	
Thermal camera	Sensor type	Uncooled microbolometer infrared focal plane arrays
	Valid pixel	384×288
	Spectrum	8~12μm
	NETD	≤60mK@F1.0
	Focal length	40mm/F1.0(30mm/50mm/75mm/100mm optional)
	FOV	11° × 8.2° ±5%
	Focus control	Manual
Image Display	Display type	Monocular OLED，800×600
	Video	PAL
	Frame rate	25Hz
Distance	Detect	1200M（Human 1.8M×0.5M)
	Recognition	300M (Human 1.8M×0.5M)
Environment	Operation Temperature	-40℃~+50℃
	Storage Temperature	-50℃~+60℃
	Anti-vibration	10Hz~55Hz~10Hz，6g，1mm
	Anti-shock	300g，2.5ms
	Protection grade	IP67
Power Supply	Supply	Rechargeable lithium battery
	Consumption	≤3W
	Working time	≥4 hours
Others	Weight	≤0.8kg
	Size	210×96.5×90（mm）（Not include base）