PT Series Optics Thermal Camera System

◆ SHR-PT550HLV4020ZIR75/300R

◆ SHR-PT500HLV1520TIR155R

Features

◆Adopting thermal imaging technology, imaging clearly, can search in large area and recognize objectives in long distance
◆High resolution infrared detector with NETD≤ 50mK
◆Day and night 2 megapixels low illuminance color camera, realizing day and night continuous monitoring
◆Multi-position intelligent recognition auto focus technology, can adapt to a variety of scene changes, achieve fast focus
◆Optional thermal imaging camera presetting function, remembering FOV of each preset bit, enhancing working efficiency
◆3D locating function, can realize frame selection magnifying function and clicking to center function, reducing operating difficulty, enhancing device usability
◆High reliability aluminum alloy electro-optical pantilt, reinforcement design, strong ability of anti-wind, anti-salt fog, low and high temperature resistance etc
◆Shipborne image stabilization function, can connect with GPS radar and electronics compass, used for different monitoring, search and accurate tracking
◆Able to adapt to all kinds of harsh climates at sea to achieve all-weather tracking and forensics
◆External equipment box, built-in power supply, video server, switch, lightning protection, etc., can remotely control the power to turn on and off, the connection is simple and convenient

Effect demo

Technical data

Model		SHR-PT500HLV1520TIR155R		SHR-PT550HLV4020ZIR75/300R	
Monitoring distance	HD camera	4500m		9000m	
	Thermal camera	Human (1.8m × 0.5m)	Vehicle (2.3m × 2.3m)	Human (1.8m × 0.5m)	Vehicle (2.3m × 2.3m)
		4200m	12000m	6270m	15330m
		1050m	3000m	1570m	3830m
		520m	1500m	780m	1920m
Thermal detector	Detector	Uncooled microbolometer focal plane array(Vox)		Cooled detector	
	Pixel	384 × 288		320 × 256	
	Spectral range	8~14μm		3.7~4.8μm	
	NETD	≤50mK@F1.0,300K		≤25mK	
	Image process	DDE, pseudo color		Image enhancement	
Thermal lens	Focal length	30~150mm, 5× zoom		75/300mm dual FOV lens	
	FOV	2.9° ×2.2° ~14.6° ×11.0°		7.3° ×5.9° /1.8° ×1.5°	
	F value	F1.0~ F1.2		F2.0	
	Lens control	E-zoom, e-focus(auto focus optional)			
	IFOV	0.17~0.83mrad		0.4~0.1mrad	
HD Camera	Sensor type	1/1.8''Progressive Scan CMOS			
	Coding format	H.265/H.264/MJPEG			
	Video resolution	1080P,CIF, supporting three stream			
	Video bit rate	32Kbps~ 16Mbps			
	Video frame rate	1~ 25F/S (50Hz), 1~ 30F/S (60Hz)			
HD lens	Focal length	15.6~500mm		16.7~1000mm	
	FOV	0.9° ~ 27.5°		0.45° ~ 24.9°	
	Other	Defog, Auto focus Support for optional			
Pan-tilt	load	25kg		40kg	
	Angle	Pan: 0° ~ 360° ; Tilt: -45° ~ +45°			
	speed	Pan: 0.01° ~ 45° /s; Tilt: 0.01° ~ 30° /s			
	Preset	255			
	Preset accuracy	± 0.1° (± 0.05° optional)			
	Auto cruise	2 paths, 64 presets each path			
	Auto scan	1 path			
Interface	Power supply	DC30V			
	Network interface	1x10Base-T/100Base-TX,RJ45			
	Video	RS485/RS422, BNC video output			
Environment indicators	temp.	operation -25℃~ +55℃ (-40℃~ +55℃ optional), Storage -40℃~ +65℃			
	Protection grade	IP66			
Power supply	Power	Wide range power input AC90~305V to output DC30V/10A, waterproof power adapter			
	Consumption	≤180W			