Thermal IP PTZ Camera With AI Track



Key Features

- 640*512 Thermal 25mm Camera + 1080P 25x HD Starlight
 Camera, Dual Optical Network PTZ Camera;
- 1/2.8" Image CMOS, 1920(H) x 1080(V), 25x optical zoom,16x digital zoom
- Thermal imaging detector 640(H) x 512(V), 25mm IR
 thermal imaging lens
- Support Al Track
- 360° horizontal rotation, ±90° vertical.
- Preset position accuracy to 0.1°, fastest speed 90° per sec.
- Built-in 3 IR LED, up to 50 M (optional LED white light)
- The whole machine adopts super strong aluminum alloy shell, excellent heat dissipation performance, IP67 protection, anti-rain and anti-dust..

Application

Suitable for forest fire prevention, border and sea defense, environmental protection, petrochemical, electric power and other industries and medium and long-distance area inspection.

Technical parameters

Model		
Model No.	AJ-SH05-640-25mm-25X-AI	
Туре	640*512 Thermal 25mm Lens Camera + 1080P 25x Zoom PTZ Camera	
Thermal imaging camera		
Detector type	Uncooled infrared focal plane sensor	
Material type	vanadium oxide	
Original pixel	640(H) ×512(V)	
Video resolution	1280*1080	
Pixel pitch	12μm	
Thermal Sensitivity (NETD)	≦40mK@25°C	
Response band	8~14μm	
Frame rate output	25/30Hz	
Thermal imaging Lens		
Lens Type	Fixed focal length	
Focal length	25 mm	
F-value	F1.0	
FOV	17.5° × 14°	

Detection distance	
(Human: 1.8x0.5m)	Detection: 520m, Recognize: 86m
Detection distance	Detection: 1560m, Recognize 260m
(Vehicle: 4.0x1.5m)	
Fire point Detection	Datasking 200m
distance (1.0mx1.0m)	Detection: 208m
Digital video	H.264
Master stream image	1280*1024, 1280*720, 640*480, 25Hz
Boot time	10s
Image processing	Non-uniformity correction, intelligent gain control, digital detail blending
	enhancement, 3D noise reduction
palette	Supports 15 color palettes including black hot, white hot, iron red, rainbow,
	etc./Customizable
Thermal imaging for tem	perature measurement
Abnormal temperature	support
alarm	
Full screen high	support
Temperature positioning Full Screen Minimum	
	support
Temperature Positioning Area temperature	
measurement	Supports 1 line, 7 boxes, and 10 points temperature measurement mode
Temperature range	Temperature range: -20~150°C, 0~550°C expansion
Temperature measurement	Temperature measurement accuracy: $\pm 2^{\circ}$ C or $\pm 2^{\circ}$ K (the larger value) without black
accuracy	body
Temperature measuring	Support reflection temperature, atmospheric temperature setting, target distance
function	correction, support emissivity correction
Visible Camera	
Image sensors	1/2.8 "Progressive scan CMOS sensor
Total pixel	2MP
Lens focal length	4.8~120mm
Optical zoom	25x
HOV	57.6 ~ 2.5°
Aperture	F1.6 ~ F3.5
Close-up range	0.1m ~ 1.5m (near focus ~ far focus)
Zoom speed	Approx. 5.5s (optical, wide Angle ~ field of view)
Video compression mode	H.265/H.264/H.264H/MJPEG
Resolution	Main stream: H264/H265 1920*1080@25fps
Resolution	1716111 501 C01111 1120 1/11203 1320 1000@231P3
Video compression hit rate	·
Video compression bit rate	32kbps~16384kbps
Video frame rate	32kbps~16384kbps 25fps
Video frame rate Storage function	32kbps~16384kbps 25fps Supports TF card storage with a maximum capacity of 1TB
Video frame rate Storage function Network protocol	32kbps~16384kbps 25fps Supports TF card storage with a maximum capacity of 1TB Onvif, GB28181, HTTP, RTSP, RTP, TCP, UDP
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Video frame rate Storage function Network protocol Intelligent alarm Behavior analysis Firmware upgrade Minimum illumination shutter	32kbps~16384kbps 25fps Supports TF card storage with a maximum capacity of 1TB Onvif, GB28181, HTTP, RTSP, RTP, TCP, UDP Motion detection, occlusion alarm, storage full Fence crossing, trip wire intrusion, area intrusion, items left behind, fast movement, parking detection, people gathering, items moving, wandering detection Support Color: 0.005Lux/F1.5; Black and white: 0.0005Lux/F1.5 1/3 to 1/30000 second
Video frame rate Storage function Network protocol Intelligent alarm Behavior analysis Firmware upgrade Minimum illumination shutter Digital noise reduction	32kbps~16384kbps 25fps Supports TF card storage with a maximum capacity of 1TB Onvif, GB28181, HTTP, RTSP, RTP, TCP, UDP Motion detection, occlusion alarm, storage full Fence crossing, trip wire intrusion, area intrusion, items left behind, fast movement, parking detection, people gathering, items moving, wandering detection Support Color: 0.005Lux/F1.5; Black and white: 0.0005Lux/F1.5 1/3 to 1/30000 second 2D / 3D
Video frame rate Storage function Network protocol Intelligent alarm Behavior analysis Firmware upgrade Minimum illumination shutter	32kbps~16384kbps 25fps Supports TF card storage with a maximum capacity of 1TB Onvif, GB28181, HTTP, RTSP, RTP, TCP, UDP Motion detection, occlusion alarm, storage full Fence crossing, trip wire intrusion, area intrusion, items left behind, fast movement, parking detection, people gathering, items moving, wandering detection Support Color: 0.005Lux/F1.5; Black and white: 0.0005Lux/F1.5 1/3 to 1/30000 second

Exposure mode	Auto/manual/aperture priority/shutter priority		
Exposure compensation	Support		
Wide dynamic	Support		
Backlight compensation	Support		
Strong light suppression	Support		
Signal-to-noise ratio	≥ 55dB (AGC Off,Weight ON)		
Automatic gain control	Support		
White balance	Automatic/manual/tracking/Outdoor/Indoor/outdoor automatic/sodium lamp		
	automatic/sodium lamp		
Day-night switching mode	ICR infrared filter type		
Digital Zoom	16x		
Focusing mode	Semi-automatic/automatic/manual/one-time autofocus		
Electronic anti-shake	On/off		
Communication interface	TTL level (3.3V), compatible with SONY VISCA protocol		
Video output	Network		
Baud rate	9600		
Pan/Tilt			
Rotation angle	Horizontal: 0° ~ 360° continuous rotation, Vertical: +90° ~ -90		
Rotation speed	Horizontal: 0.01° ~60° /s; Vertical: 0.01° ~60° /s		
wiper function	optional		
Preset Accuracy	±0.1°		
Scan	8 groups (each group can add 32 preset points)		
cruise	12 groups (each group can add 32 preset points)		
trajectory	6 paths (each path takes longer than 5 minutes)		
Al Track	Support		
guardian position	Support		
3D positioning	Support		
Power Failure Memory	Support		
angular return	Horizontal and tilt angle support is returned at the same time.		
Scan	Horizontal: 0° ~ 360° continuous rotation, Vertical: +90° ~ -90		
Video and Audio			
Main stream	60fps(2688*1520)		
sub stream	60fps(1280X720)		
Stream control	CBR/VBR		
Stream range	Thermal imaging, main stream 100Kbps~6MKbps,		
Audio compression			
standard	G711: 8kbps, RAW_PCM: 16kbps		
Video format	H.264/H.265		
Functional characteristics			
Intelligent alarm	Motion detection alarm, I/O alarm, disk alarm, temperature warning, intelligent analysis alarm,		
Lata III a satisfata ati a s	network anomaly alarm		
Intelligent detection	Supports humanoid and vehicle detection		
Intelligent analysis Privacy masking	Trip wire, fence crossing, area intrusion, item left behind, fast movement, parking detection, people gathering, item moving, wandering detection		
	nonsupport		
Character display	Temperature, time, date, channel name, Custom		
Network service	Tomporatare, time, date, onaliner hame, educini		
Network protocol	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x,		
	QoS, HTTPS, GB28181, Onvif		

Concurrent user	10 CH	
user rights	Maximum 20	
Support SDK development	Linux C /windows	
Device autodiscovery	Support	
Front End Access Protocol	ONVIF	
web language	Detection support only, shipments are not fully supported	
interfaces		
Network	1 RJ45 10/100Base-T adaptive Ethernet interface	
Audio interface	1 channel Intercom capable	
Alarm Interface	Supports customization (conventional 1 input and 1 output)	
Analog Video	unsupported	
PTZ control	RS485	
Reset	Camera built-in	
SD card slot	Support up to 1Tb	
General		
Power supply	DC9-36V (AC24V optional)	
Power wastage	≤30W	
Work environment	Temperature -40°C~60°C, Humidity 0~90% RH	
Shell material	aluminum	
Protection class	IP67	
Installation method	vertical installation	
Dimension	353 x 220 x 278.5mm (L x W x H) (side outlet)	
	353 x 220 x 296mm (L x W x H) (bottom outlet)	
weights	7.5KG	

Dimension(Unit: mm)



