25X Zoom 1080 IP +640*512

5mm Thermal Camera



Key Features

- 640*512 Thermal 5mm 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), 5mm IR thermal imaging lens
- 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-SH05-640-5mm-25X	
Туре	640*512 Thermal 5mm 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	5 mm	
F-value	F1.0	
FOV	81.5° × 6.1°	

Detection distance	
(Human: 1.8x0.5m)	Detection: 198m, Recognize: 59m
Detection distance	Detection: 510m, Recognize 170m
(Vehicle: 4.0x1.5m)	
Fire point Detection	Detection 447
distance (1.0mx1.0m)	Detection: 417m
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 $\pm 2^{\circ}$ C (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
- p	57.6 ~ 2.5°
HOV	1 3/.0 1/.3
HOV Aperture	
Aperture	F1.6 ~ F3.5
Aperture Close-up range	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus)
Aperture Close-up range Zoom speed	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view)
Aperture Close-up range Zoom speed Video compression mode	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG
Aperture Close-up range Zoom speed Video compression mode Resolution	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps
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Aperture Close-up range Zoom speed Video compression mode Resolution Video compression bit rate Video frame rate Storage function	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps 32kbps~16384kbps 25fps Supports TF card storage with a maximum capacity of 1TB
Aperture Close-up range Zoom speed Video compression mode Resolution Video compression bit rate Video frame rate Storage function Network protocol	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps 32kbps~16384kbps 25fps Supports TF card storage with a maximum capacity of 1TB Onvif, GB28181, HTTP, RTSP, RTP, TCP, UDP
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Aperture Close-up range Zoom speed Video compression mode Resolution Video compression bit rate Video frame rate Storage function Network protocol Intelligent alarm	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps 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,
Aperture Close-up range Zoom speed Video compression mode Resolution Video compression bit rate Video frame rate Storage function Network protocol Intelligent alarm Behavior analysis	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps 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
Aperture Close-up range Zoom speed Video compression mode Resolution Video compression bit rate Video frame rate Storage function Network protocol Intelligent alarm Behavior analysis Firmware upgrade	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps 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
Aperture Close-up range Zoom speed Video compression mode Resolution Video compression bit rate Video frame rate Storage function Network protocol Intelligent alarm Behavior analysis Firmware upgrade Minimum illumination	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps 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
Aperture Close-up range Zoom speed Video compression mode Resolution Video compression bit rate Video frame rate Storage function Network protocol Intelligent alarm Behavior analysis Firmware upgrade Minimum illumination shutter	F1.6 ~ F3.5 0.1m ~ 1.5m (near focus ~ far focus) Approx. 5.5s (optical, wide Angle ~ field of view) H.265/H.264/H.264H/MJPEG Main stream: H264/H265 1920*1080@25fps 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
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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)	
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,	
	network anomaly alarm	
Intelligent detection	Supports humanoid and vehicle detection	
Intelligent analysis	Trip wire, fence crossing, area intrusion, item left behind, fast movement, parking detection, people gathering, item moving, wandering detection	
Privacy masking	nonsupport	
Character display	Temperature, time, date, channel name, Custom	
Network service		
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	

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	

Maximum 20

Dimension(Unit: mm)

user rights



