

# JKZ-Series

## Process Control



The JKZ-Series is a new SATIR fixed camera model group. The JKZ-365 and JKZ-640 cameras have been designed for the Power and Energy Industry to monitor power and sub stations. It combines digital and thermal technology to deliver excellent imaging capabilities. It also includes some AI technology settings which gives more options to activate temperature alarms that can alert plant engineers of any over-heating or issues. For example, once the alarm has been activated then the zoom on the digital camera can allow easy identification of the potential defective component and corrective action can be taken by the plant engineers.



### Key Features

- 400x300/640x512 IR Detector.
- NETD  $\leq$  40mK.
- Digital/Thermal/AI Technology.
- Support human/vehicle detection.
- Support smoke & fire detection and fire point detection.
- 17 Colour Palettes
- Optional Fixed/Motorized Lenses: 8/15/25mm
- Smart events: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area and leave area.

## JKZ-Series Specifications

Model	JKZ365			JKZ640			
<b>Thermal Camera</b>							
Detector Type	Uncooled IRFPA Microbolometer			Uncooled VOx Focal Plane Arrays 640×512			
Detector Resolution	400x300/640x512. Image can be scaled up to 704x576			Sensor is 640x512. Image can be scaled up to 1280x1024			
Pixel Size	17µm			12 µm			
Thermal Sensitivity (NETD)	40mK @F1.0, 300K			≤ 40mK @F1.0, 300K			
Spectral Range	8~14µm			8 ~ 14 µm			
Image Settings	Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR			Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR			
Colour Palettes	Black-Hot /White-Hot/Rainbow/ Ironbow, up to 17 modes			Black-Hot /White-Hot/Rainbow/Ironbow, up to 17 modes			
<b>Thermal Lens</b>							
Lens Type	Fixed			Fixed/Motorized			
Focus Control	Free Focus			Free Focus			Motorized
Focal Length	8mm	15mm	25mm	9mm	15mm	25mm	25mm
F No.	F1.0	F1.0	F1.0	F1.0	F1.0	F1.0	F1.0
Angle of View	H:46° V:35.3°	H:25.5° V:19.2°	H:15.4° V:11.6°	H:48°, V:38°	H:29°, V:23°	H:17°, V:14°	H:17°, V:14°
Detection Distance Fire (1x1m)	235m	441m	735m	375m	625m	1042m	1042m
Detection Distance Humans (1.8x0.5m)	235m	441m	735m	375m	625m	1040m	1040m
Detection Distance Vehicle (4x1.5m)	722m	1353m	2255m	1150m	1917m	3194m	3194m
Recognition Distance Fire (1x1m)	78m	147m	245m	375m	625m	1042m	1042m
Recognition Distance Human (1.8x0.5m)	59m	110m	184m	94m	156m	260m	260m
Recognition Distance Vehicle (4x1.5m)	180m	338m	564m	288m	479m	799m	799m

Please be aware specifications can vary from time to time

# JKZ-Series Specifications

Visible Camera		
Image Sensor	1/2.8" Sony CMOS	1/2.8" Sony CMOS
Effective Resolution	2592 (H)×1520 (V)	2592 (H)×1520 (V)
Shutter Speed	1/5~1/20,000s	1/5 ~ 1/20,000s
Min. Illumination	Colour: 0.01Lux @(F1.2, AGC ON), B/W: 0.001 Lux	Colour: 0.01 Lux @ (F1.2, AGC ON), B/W: 0.001 Lux
Illumination Distance	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)
WDR	True WDR	True WDR
Focal Length	5.3 to 139 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom
Max Aperture	F1.6 ~ F4.4	F1.6 ~ F4.3
Angle of View	H: 55.6° to 2.5°, V: 34° to 1.9°	H:55° ~ 2.3°, H: 41.6° ~ 1.7°
Optical Zoom	16x	16x
Focus Control	Auto/Manual/Semi-Automatic	Auto/Manual/Semi-automatic
Mirror	Support	Support
Defog	Support	Support
Privacy Masking	Support	Support
PTZ		
Pan/Tilt Range	Pan:0°~360° endless; Tilt: +90°~-90°	Pan: 0° ~ 360° endless, Tilt: +90° ~ -90°
Pan/Tilt Speed	Pan:0.01°~30° /s; Tilt:0.01°~10° /s	Pan: 0.01° ~ 30°/s, Tilt: 0.01° ~ 10°/s
Wiper	Support	Support
Preset Accuracy	± 0.1°	± 0.1°
Preset Speed	Pan:0.01°~30° /s; Tilt:0.01°~10° /s	Pan: 0.01° to 30°/s, Tilt: 0.01° to 10°/s
Presets	400	400
Scan	8 scans	8 scans, up to 32 presets per scan
Patrol	12 patrols, up to 32 presets per scan	12 patrols, up to 32 presets per scan
Track	6 tracks	6 tracks
3D Positioning	Support	Support
Speed Setup	Auto/Manual (0-8)	Auto/Manual (0-8)
Power off Memory	Support	Support
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.	It can activate Preset/ Scan/Tour/Pattern if there is no command in the specified period

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## JKZ-Series Specifications

Video and Audio		
Stream	<p>Main Stream: Thermal: 704×576 @ 25/30fps Optical: 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps</p> <p>Sub Stream: Thermal: CIF @ 25/30fps Main Stream: Thermal: 704×576 @ 25/30fps Optical: 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps Optical: D1, VGA, CIF @25/30fps</p>	<p>Main Stream: Thermal: 1280×1024, 1280×720, 640×512 @ 25/30fps Optical: 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps</p> <p>Sub Stream: Thermal: D1, CIF @ 25/30fps Optical: D1, VGA, 640×360, CIF, QCIF, QVGA @25/30fps</p>
Bit Rate Control	CBR/VBR	CBR/VBR
Bit Rate	<p>Thermal: 100Kbps~6Mbps Visible: Main Stream: 500Kbps~12Mbps: Sub Stream: 100Kbps~6Kbps</p>	<p>Thermal: Main stream: 100Kbps~8Mbps Optical: Main stream: 100Kbps~12Mbps, Sub stream: 100Kbps~6Mbps</p>
Region of Interest	Off/On (8 Zone, Rectangle)	Off/On (8 Zone, Rectangle)
Audio Compression	G.711,AMR,RAW_PCM (Optional)	G.711 (8kbps), RAW_PCM (16kbps)
Intelligence		
Smart Alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm

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## JKZ-Series Specifications

Smart Detection	Support human/vehicle detection, fire point detection and smoke & fire detection	Support human/vehicle detection, fire point detection, smoke and fire detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area and Smart motion detection (these functions support accurate detection of human/vehicles), People counting	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area Support alarm triggering by specified target types (human and vehicle), People Counting
<b>Temperature Detection</b>		
Measurement Mode	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2°C/±2%	±2°C/ / ±2%
Response Time	≤30ms	≤ 30ms
Temperature Range	-20°C to 150°C (-4°F to 302°F) -20 to 550 (-4°F to 1022°F) Customizable	-20°C to 150°C (-4°F to 302°F) -20 to 550 (-4°F to 1022°F) Customizable
<b>Network</b>		
Protocols	IPv4/IPv6, HTTP, HTTPS, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, DDNS, PPPOE, FT, SMTP, 802.1x, SNMP	IPv4/IPv6, HTTP, HTTPS, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, DDNS, PPPOE, FT, SMTP, 802.1x, SNMP
Interoperability	ONVIF, CGI, SDK	ONVIF, CGI, SDK
Max, User Access	10 Users	10 Users

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## JKZ-Series Specifications

Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge	<IE11, Chrome, Firefox, Microsoft Edge
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian
<b>Interface</b>		
Ethernet	2 Ethernet (10/100 Base-T) R-45 Connector	2 Ethernet (10/100 Base-T) RJ-45 Connector
Audio	1ch input, 1ch output	1ch input, 1ch output
Alarm Interface	1ch output	1ch output
RS485	Support	Support
CVBS Interface	Not Supported	1ch output
Reset Button	Support (Built-in)	Support (Built-in)
SD Card Slot	Built-in, up to 256GB	Built-in, up to 256GB
<b>General</b>		
Power Supply	DC24V	DC24V
Power Consumption	Max 55W	Max 40 W
Operating Temperature	-30°C ~ 60°C (-22°F~140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Storage Conditions	0 ~ 90% RH	0 ~ 90% RH
Certifications	CE/FCC	CE/FCC
Ingress Protection	IP66	IP66
Casing	Metal	Metal
Dimensions	322x192x163mm	323 ×192.5 ×177mm
Net Weight	5KG	5 kg

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