

S7R5A24EX30-AT6

Bispectral PTZ IP Camera | Auto Tracking

S7R
SERIES

This Bispectral PTZ IP Camera provides clear, 24/7 surveillance in any weather by combining high-resolution optical and thermal sensors. Its powerful PTZ capabilities offer wide-area coverage and a high-magnification zoom to capture critical details from a distance.

2MP

ONVIF® | S T G

- 30X Optical Zoom Lens(4.3 – 129.0mm)
- 8X Digital Zoom
- Day & Night (IR cut removable)
- Full HD 2 megapixel CMOS image sensor
- 2MP H.265/HEVC and H.264/AVC high-performance video compression
- Simultaneous streaming of H.265 and H.264 encoded streams
- 3D noise reduction (MCTF)
- HDR function up to 120dB
- IVS supported
- built-in AI function
- Motion / Tamper / Alarm / Audio / Network lost detection / Global Counter / Virtual Input / Metadata function
- SMART event
- 80-metre infrared night vision
- Defog function
- Dynamic privacy zone mask
- Horizontal & Vertical Flip
- 360° Endless panning
- Tilting range up to 100°
- Up to 256 Programmable Preset Positions
- 2-way audio supported
- ONVIF supported
- Weatherproof IP68
- Vandal resistant approve IK10



Video Performance	
Min. Illumination	0.01 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.008 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.003 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0009 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON
Lens / Night vision (infrared LED)	
Lens zoom ratio	30X Optical
Focal Length	4.3 (Wide) – 129.0 (Tele) mm
Minimum Aperture Ratio	F1.6(Wide) – F4.7(Tele)
Iris Range	F1.6 – 32 , Close
Iris Control	DC IRIS / Manual
Minimum Object Distance	10 cm (Wide end), 1.5m (Tele end)
Angle of View	72.3° (W) – 2.9° (T) (H) 43.3° (W) – 1.7° (T) (V) 81.0° (W) – 3.3° (T) (D)
Zoom Speed	0 – 7 Selectable [Fast : Approx. 6.0 Second (Tele to Wide) in Manual Mode]
Focus Speed	0 – 7 Selectable
Focus	Auto (Continue / Interval / Zoom Trigger / One Push), Manual Focus
Peak Wavelength	850nm
Beam Spread	Automatically adjusted, Depending on the zoom ratio
Radiant Distance	80m
Sensor	
Pick Up Element	1/2.8" CMOS image sensor
Effective Pixels	1945 (H) × 1097 (V) = 2,133,665 (Pixels)
Thermal module	
Image sensor	Uncooled microbolometer
Pixel Size	12 μm
NETD	<50mK @ 25° C
Focal Length	6.6mm
Minimum Aperture Ratio	F1.0
Minimum Object Distance	3.7m
Angle of View	36° (H) 27.8° (V)
Wavelength	8 – 14 μm
Max. Resolution	320 x 240
Aspect ratio	4:3
Certifications	
CE	Yes, EMI Class A
FCC	Yes, EMI Class A
UKCA	Yes, EMI Class A
IP Rating	IP68
Vandal Resistant Rating	IK10 (Housing)
BSMI	Yes, CNS 15963
Pan & Tilt	
Control Function	Pan and Tilt / Zoom and Focus / Iris and ICR / 256 Preset Position / Home Position
Auto Mode	OFF / SCAN(16) / SEQ(256) / TOUR(16) / PATROL(16) / Auto TRACKING
Schedule Setting	OFF / SCAN (4)/ SEQ(256) / TOUR(4) / PATROL(4) / Preset Position(256)(via web interface)
Panning range	360° Endless
Panning mode	Manual , Auto , Manual Position , Sequential Position

Panning speed	Manual Approx. 0.1° /s – 120° /s 8 Steps, Preset Approx. 1° /s – 120° /s, Alarm Trigger Speed 120° /s
Tilting range	-10° – +90°
Tilting mode	Manual , Auto , Manual Position , Sequential Position
Tilting speed	Manual Approx. 0.1° /s – 120° /s 8 Steps, Preset Approx. 1° /s – 120° /s, Alarm Trigger Speed 120° /s
PC Requirements	
CPU	Intel® Core™ i7 or higher grade
OS	Windows 10 or above
RAM	8GB or above, Dedicated Graphics Card
Web browser	Microsoft® Internet Explorer® 9 or above, Microsoft® Edge
Input / Output	
Alarm Input / Output	one audio input / one audio output Terminal block type (microphone not built-in)
Audio	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
Alarm Input / Output	Digital 4 Input (TTL 5Vdc) , 1 Output (MOS Relay contact N.O., Load.max. 40VDC,450mW / 300mA,450mW) , Terminal block type
Video Streaming	
Video Compression	H.265/HEVC main profile, H.264 main and high profile , Motion JPEG
Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast streams in H.265 and H.264 and Motion JPEG, configurable frame rate and bandwidth
Number of streams	4 (Optical x2, Thermal x2)
Video Bitrate	128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported, Fixed bitrate
Network Security	
Encryption	Base64 HTTP encryption, HTTPS encryption
Authentication	Digest HTTP authentication, RTSP authentication, DDNS via HTTPS
Address Filter	IP address and MAC address filtering
Access	Multiple user access levels with password protection
Users	10 user accounts available
Multi IP address	Yes
Video Resolutions (H x V)	
Resolution	- Stream 1 (Optical): 1920x1072, 1280x720 - Stream 2 (Optical): 1280x720, 640x360 - Stream 3 (Thermal): 1280x960, 640x480, 320x240 - Stream 4 (Thermal): 320x240"
Maximum Frame Rate	Optical: 30FPS @ 1920x1080 Thermal: 30FPS @ 1280x960
Video Functions	
Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule
White Balance	Auto / Manual
Electrical Shutter	1/30(1/25)s – 1/20000s
Exposure Mode	AUTO / SHUT.P / IRIS.P
Sense Up	Off / x2 / x4 / x8
Sense Up+	Yes
Auto Gain Control	60 dB Variable Gain
S/N Ratio	More than 50dB (AGC off)
3D Noise Reduction	Off / ON(1 – 32)
High Dynamic Range	Up to 120dB (by HDR mode, 2 shutter line interleave)
Privacy Masking	OFF / ON (Up to 16 area)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Defog, Digital Zoom(x8)

Integration	
Mobile Application	Integrated to LILIN mobile app (LILIN Pro), iPhone, iPad, Android support
Video Management	ONVIF Profile S / ONVIF Profile T / ONVIF Profile G, IVS events, LILIN Navigator Enterprise 5.0 support, Third party VMS through LILIN HTTP API
SD Card Recording	Support (128GB) Micro SD/SDHC/SDXC card for circular recording (card is not included)
SD Card Compatible List	Micron - 32GB,64GB,128GB,256GB,512GB, 1TB (SDXC, U1, C10) Transcend - 4GB SD,8GB SDHC,32GB SDHC C10,128GB SDXC C10 SanDisk - 8GB SDHC, 32GB, 64GB, 128GB SDHC C10 Kingston - 64GB SDXC C10
Maintenance	Firmware update via HTTP and IP Scan; Firmware available at web site
IVS Basic 1.0	Motion / Tamper
AI (Optional)	EDGEFLOW, EDGECAP
Event Triggers	Motion / Tamper / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
Event actions	FTP / SMTP / HTTP post / SD card / SAMBA / Alarm Output / Push Service / Global Counter / Virtual Input
Languages	English, Traditional Chinese, Simplified Chinese, Russian, Italian, Hungarian, Korean, French, Turkish, Arabic, Spanish, Japanese
Network	
Ethernet	10/100 Mbps Base-T, RJ-45
ePTZ & Digital Zoom	- / Yes (X8)
Web PTZ control	Pan , tilt , zoom in / out , absolute position, and video-click-n-move
OSD	- Bounding boxes displayed in RTSP streams - Detection zone/line crossing zone overlay displayed in RTSP streams - Bounding box displayed around all objects in Intrusion Zone
CPU, Memory	Embedded Quad-core ARM Cortex-A53 1.0GHz CPU & 2GB LPDDR4X, 8GB e.MMC memory
OS	Embedded Linux 5.4
Network Protocols	IPv4, TCP, UDP, HTTP, HTTPS, QoS, NTP, DDNS, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTP, Telnet, ICMP, ONVIF Profile S, ONVIF Profile T, ONVIF Profile G
Network Storage	NAS (Support SAMBA/CIFS)
User accounts	10 user accounts available
Video Display	LILIN Universal ActiveX & HTML5

Power and Environment	
Starting Temperature	- 30° C – + 50° C (- 22° F – 122° F)
Starting Temperature (POE)	- 10° C – + 50° C (+ 14° F – 122° F)
Operating Temperature	- 30° C – + 50° C (- 22° F – 122° F)
Storage Temperature	- 30° C – + 60° C (- 22° F – 140° F)
Humidity	10% – 90%
Power Supply	DC24V (DC21V – 35V) , PoE+ (802.at)
Power Consumption	DC24V, 14.5 W (Still, Illumination OFF) DC24V, 25 W (Motor Drive & Illumination On) PoE+, 14.6 W (Still, Illumination OFF) PoE+, 25 W (Motor Drive & Illumination On)
Wind	40m/s
Mechanical	
Dimension	Ø175 x 270 (H) mm
Weight	3.9 Kg (without mount)
Casing Material	Aluminum alloy
Warranty	
Warranty	3 Year(s)