

# PSR5520EX30

## 30X 1080P Day & Night 60 FPS IR Vandal Resistant PTZ IP Camera

**PSR**  
SERIES

Speeddome PTZ cameras offer advanced optical zoom capabilities and physical PTZ (Pan-Tilt-Zoom) functions, providing exceptional flexibility in adjusting viewing angles and zoom levels.

**2MP**

ONVIF® S T G

- 30X Optical Zoom Lens(4.7 – 129mm)
- 16X Digital Zoom
- Day & Night (IR cut removable)
- Full HD 2.14 megapixel CMOS image sensor
- 60 FPS @ 1080P True H.264 AVC High Profile video compression
- H.264 and Motion JPEG multi-profile video streaming
- Digital Noise Reduction function
- HDR function up to 90dB
- IVS supported
- Alarm(1 – 4) / Motion / Tamper / Audio / Network loss detection
- Smart event support
- 200-metre infrared night vision
- Digital image stabilization
- Defog function
- Dynamic privacy zone mask
- Horizontal Flip
- 360° Endless panning
- Tilting range up to 240°
- Up to 256 Programmable Preset Positions
- 2-way audio supported
- ONVIF Profile S, Profile T and Profile G supported
- RS-485 supported
- Weatherproof IP66
- Vandal resistant approve IK10
- Rain repellent glass



Video Performance	
Min. Illumination	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB 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	1 : 1.6 (Wide) – 4.7 (Tele)
Iris Range	F1.6 – 32 , Close
Iris Control	DC IRIS , ALC ( Adjustable Output Target Level ) / Manual
Minimum Object Distance	10 cm (WIDE end), 1.5M (TELE end)
Angle of View	64.45° (W) – 2.41° (T) (H) 39.27° (W) – 1.36° (T) (V)
Zoom Speed	0 – 7 Selectable [ Fast : Approx. 6.0 Second ( Tele to Wide ) in Manual Mode ]
Focus Speed	0 – 7 Selectable [ Fast : Approx. 6.0 Second ( Far to Near ) in Manual Mode ]
Focus	Auto ( Continue / Interval / Zoom Trigger / One Push), Manual Focus
Peak Wavelength	850nm
Beam Spread	Automatically adjusted, Depending on the zoom ratio
Radiant Distance	200M
Sensor	
Pick Up Element	1/2.8" CMOS image sensor
Effective Pixels	1944 (H) × 1224 (V) = 2,379,456 (pixels)
Certifications	
CE / FCC	Yes, EMI Class A
IP Rating	IP66
Vandal Resistant Rating	IK10
Certifications	
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 – 300° /s, Alarm Trigger Speed 300° /s
Tilting range	-30° – +210°
Tilting mode	Manual , Auto , Manual Position , Sequential Position
Tilting speed	Manual Approx. 0.1° /s – 120° /s 8 Steps, Preset Approx. 1° /s – 300° /s, Alarm Trigger Speed 300° /s
PC Requirements	
CPU	Intel® Core™ i3 or higher grade
OS	Windows 7 or above
RAM	4GB or above, Dedicated Graphics Card
Web browser	Microsoft® Internet Explorer® 9 or above

Input / Output	
Audio Input / Output	one audio input / one audio output Terminal block type (microphone not built-in)
Live Video Output	CVBS 1.0Vp-p, 75 ohm, terminal block type
Audio	G.711 u-law / PCM
Alarm Input / Output	Digital 4 Input (TTL 5Vdc) , 2 Output (MOS Relay contact N.O., Load.max. 40VDC,450mW / 300mA,450mW) , Terminal block type
Video Streaming	
Video Compression	H.264 Main and High Profile, Motion JPEG
Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4 configurable streams in H.264 and Motion JPEG, configurable frame rate and bandwidth
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
Authentication	Digest HTTP authentication, RTSP Authentication, IEEE 802.1x authentication
Address Filter	IP address filter, MAC address filter
Access	Multiple user access levels with password protection
Users	10 user accounts available
Multi IP address	Yes
Video Resolutions (H x V)	
Resolution	2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576), VGA(640 × 480), CIF(352 × 240)
Maximum Frame Rate	Normal mode (H.264 / MJPEG) 60Hz: 60 FPS @ 1920 × 1080 50Hz: 50 FPS @ 1920 × 1080 WDR mode (H.264 / MJPEG) 60Hz: 30 FPS @ 1920 × 1080 50Hz: 25 FPS @ 1920 × 1080
Video Functions	
Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono)
White Balance	ATW / Indoor(3200K) / Outdoor(5800K) / Manual(1800K – 10500K)
Back Light Compensation	OFF / ON
Electrical Shutter	Auto / manual(1/30(25) – 1/10,000)
Exposure Mode	AUTO / IRIS.P / SHUT.P / MANUAL
Sense Up	OFF / ON
Sense Up+	Yes
Auto Gain Control	50dB Variable Gain
S/N Ratio	More than 50dB (AGC off)
3D Noise Reduction	OFF / ON (1 – 5)
High Dynamic Range	Up to 90dB
Privacy Masking	OFF / ON ( Up to 16 area)
Image Effects	Contrast, Sharpness, Mirror, Flip, Defog, DIS, Digital Zoom(x16)

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, LILIN Navigator Enterprise 2.0, Third party VMS through LILIN HTTP API
SD Card Recording	Support 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 Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection
IVS Advanced 2.0 (Optional 1)	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
IVS Advanced 2.1 (Optional 2)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection
Event Triggers	Alarm(1 – 4) / Motion / Tamper / Audio / Network loss detection
Event actions	FTP, SMTP, SD card, SAMBA, Alarm output(2), HTTP post, SNMP Trap, Preset position, Push Service notification
Control Interface	RS-485, Half-Duplex, support MLP2, Pelco D/P protocols
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese
Network	
Ethernet	10/100Mbps Base-T, RJ-45
ePTZ & Digital Zoom	16X
Web PTZ control	Pan , tilt , zoom in / out , absolute position, and video-click-n-move
OSD	Text overlay for date, time, and camera name, and PTZ position
CPU, Memory	Embedded SoC, ARM Cortex-A9 1.0GHz, 512MB DDR3, 256MB flash memory
OS	Embedded Linux 3.10.104+
Network Protocols	IPv4, IPv6, TCP, UDP, HTTP, SMTP, QoS, SNMP, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, ONVIF Profile T, ONVIF Profile G, SIP, Bonjour, 802.1x
User accounts	10 user accounts available
Video Display	LILIN Universal ActiveX & HTML5

Power and Environment	
Starting Temperature	- 40° C – + 50° C ( -40° F – 122° F )
Starting Temperature (POE)	- 40° C – + 50° C ( -40° F – 122° F )
Operating Temperature	- 40° C – + 50° C ( -40° F – 122° F )
Storage Temperature	- 20° C – + 60° C ( -4° F – 160° F )
Humidity	0% – 90%
Power Supply	PoE++ (IEEE 802.3bt) / DC48V
Power Consumption	PoE++, 47.5 W / DC48V, 46 W (Heater OFF) PoE++, 82.5 W / DC48V, 81 W (Heater ON)
Mechanical	
Dimension	395 (H) × 198 (D) mm
Weight	7000 g
Casing Material	Aluminum alloy
Window	Ø55 Heat Resistant Glass & Rain repellent glass
Warranty	
Warranty	3 Year(s)

**Bracket**



**BTS03W**  
Wall-mount

**Bracket**



**PIH-5208HBW**  
Wall-mount

**Bracket**



**PIH-5208LBW**  
Wall-mount

**Bracket**



**PIH-520HBW**  
Wall-mount

**Bracket**



**PIH-520LBW**  
Wall-mount