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## 20X Day&Night 1080P Full HD PTZ Dome IP Camera



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### Features

- Pan-tilt-zoom capabilities
- 20X optical zoom
- IR cut filter for day/night operations
- 1080p HD resolution
- Wide Dynamic Range up to 90dB

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### Description

The IPS5204A / IPS5208A is 1080P Full HD PTZ Dome IP camera. The high-speed domes are capable of streaming HD video at up to 30 FPS. Featuring LILIN's Wide dynamic Range (WDR) feature, the IPS5204A / IPS5208A captures highlights and shadows simultaneously, eliminating pixilation and smear. Combine this with 3D Noise Reduction technology and adaptive tone reproduction and the contrast of images in bright or dark areas is dramatically improved. Capable of making 360° continuous rotations with a speed range of 0.15°-360° per second, users can accurately position the camera to identify specific targets. The 20x optical zoom and 16x digital zoom capacity give the IPS5204A / IPS5208A an impressive range. With a focal length of 4.7mm (WIDE)-94.0mm (TELE), IPS5204A / IPS5208A is ideal for numerous applications.

## Specifications

Model	IPS5204A
Min. illumination/Low Light Mode (Colour)	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF) 0.1 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF) 0.2 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF)
Power Consumption	AC24V, 15.5W
Power Supply	AC24V ±10%
Pick Up Element	1/2.8" CMOS image sensor
Effective pixels	1944 (H) × 1224 (V) = 2,379,456 (pixels)
CE	Yes, EMI CLASS A
FCC	Yes, EMI CLASS A
Lens zoom ratio	20X optical zoom
Focal Length	4.7mm (WIDE)-117.5mm (TELE)
Minimum Aperture Ratio	1:1.6 (WIDE)-3.5 (TELE)
Minimum object distance	30cm (WIDE end), 1.5m (TELE end)
Iris Range	F1.6 - 32 , close
Angle of View	(H) 59.94°(W) - 3.30°(T) (V) 36.16°(W) - 1.87°(T)

Panning Range	360° Endless
Panning Mode	Manual, Auto, Manual Position, Sequential Position
Panning Speed	Manual approx. 0.15°/s-120°/s 8 Steps, Preset approx. 1°/s-255°/s, Alarm Trigger Speed 360°/s
Tilting Range	-6° - +96°
Tilting Mode	Manual, Auto, Manual Position, Sequential Position
Tilting Speed	Manual approx. 0.15°/s-120°/s 8 Steps, Preset approx. 1°/s-255°/s, Alarm Trigger Speed 360°/s
Operating temperature	-10°C-+ 50°C (14°F-122°F)
Operating humidity	0%-90%
CPU	Intel® Core™ i3 or higher grade
OS	Windows 7 or above
RAM	4GB or above, Dedicated Graphics Card
Web browser	Microsoft® Internet Explorer® 9.0 and later
Dimensions	245mm x 155mm
Weight	2300g approx.
Control Function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position
ePTZ & Digital Zoom	16X
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
Iris Control	DC IRIS , ALC ( Adjustable Output Target Level ) / Manual
Live Video Output	CVBS 1.0 Vp-p / 75 Ω BNC
Alarm Input / output	Digital 6 Input (TTL 5Vdc) , 1 Output (0.5A 120Vac,1A 24Vac) , Terminal block type

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 – 8Mbps, Frame rate and bit rate controllable on-the-fly, VBR / CBR / GOP supported, Fixed bitrate
Resolution	1080P( 1920 x 1080 ) , 720P ( 1280 x 720 ) , D1( 720 x 480, 720 X 576 ) , CIF ( 352 X 240 )
Maximum Frame Rate	60Hz: H.264 30 FPS @ 1920 × 1080, MJPEG 30 FPS @ 720 × 480 50Hz: H.264 25 FPS @ 1920 × 1080, MJPEG 25 FPS @ 720 × 480
Infrared Cut Filter	Auto / Day (Color) / Night (Mono)
Scanning System	Progressive scan
White Balance	ATW/Indoor(3200K)/Outdoor(5800K) /Manual(1800K ~10500K)
Electrical Shutter	Auto / manual(1/1 to 1/100,000)
Exposure Mode	Auto / Manual
Back Light Compensation (BLC)	Off / BLC / WDR
3D Noise Reduction	Off / On (2D, 3D)
Privacy Masking	Off / On (up to 16 areas)
Auto Mode	Off / AUTO / SEQ / TOUR
PTZ Control	Pan, tilt, zoom-in / zoom-out, absolute position, and mouse click function
Schedule Setting	Off / Auto Mode / Preset position
Auto Gain Control	50dB Variable Gain
Image Effects	Contrast, Sharpness, Mirror, Flip, Defog, DIS, Digital Zoom(x16)
Mobile Application	Integrated to LILIN mobile app (LILINViewer) , iPhone, iPad, Android support
Video Management	ONVIF Profile S ; LILIN Navigator Enterprise 1.0 and 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)
Maintenance	Firmware upgrade via HTTP Firmware available to download at <a href="http://meritlilin.com">meritlilin.com</a>
IVS Basic 1.0	Motion Detection, Audio detection
Alarm event triggers	Alarm / motion / audio / Network lost detection
Alarm event actions	FTP, HTTP post, SD card
Alarm weighted mode	Support
Network Interface/Ethernet	10Mbps / 100Mbps, RJ-45
User accounts	10 simultaneous users
OSD	Text overlay for date, time, and camera name, and PTZ position
CPU.Memory	Embedded SoC ARM11, 528MHz, 256MB DDR2, 256MB flash memory
Video Display	LILIN Universal ActiveX & LILIN Java Applet
Network OS	Embedded Linux 2.6.32
Audio	2-way audio , G.711
Protocols	IPv4, IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, ONVIF profile S, SNMP, Bonjour
Address Filter	Yes
Multi IP address	Yes
Max number of online users	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base64 HTTP encryption
Authentication	Digest HTTP authentication, RTSP authentication