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## 20X Day & Night 30fps 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
Image Sensor/Sensor type	1/2.8 Type Exmor CMOS Sensor
Effective pixels	Effective pixels : 1944 (H) × 1224 (V) = 2,379,456 (pixels) ; Total number of pixel : 1952 (H) × 1236 (V) = 2,412,672 (pixels)
Video Compression	H.264, Motion JPEG
Resolution	1080P( 1920 x 1080 ) , 720P ( 1280 x 720 ) , D1( 720 x 480, 720 X 576 ) , CIF ( 352 X 240 )
Frame Rates	H.264: up to 30FPS @ 1920 x 1080 ; Motion JPEG: up to 30FPS @ 720 x 480
Lens	4.7mm (WIDE)-94.0mm (TELE)
Iris	F1.6-32, close ; Auto / Manual
Angle of View	Approx. 59.94°( H ) 36.16°( V ) (WIDE end), approx. 3.30°( H ) 1.87°( V ) (TELE end), (1080p mode)
Auto Focus	Auto ( Continue / Interval / Zoom Trigger / One Push), Manual Focus
Zoom ratio	20X optical zoom
Minimum object distance	30cm (WIDE end), 1.5m (TELE end)
Digital zoom	16X
Video streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast

Video bitrate	128 Kbps to 8 Mbps ; Frame rate and bitrate controllable on-the-fly ; VBR / CBR / GOP supported
Scanning System	Progressive scan
IR cut filter	Colour (Day), Monochrome (Night), Auto
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)
White Balance	ATW/Indoor(3200K)/Outdoor(5800K) /Manual(1800K ~10500K)
Back Light Compensation (BLC)	Off / BLC / WDR
Shutter Time	Auto / manual(1/1 to 1/100,000)
Auto Gain Control	0 - 30dB
3D Noise Reduction	Off / On (2D, 3D)
Privacy Masking	Off / On (up to 16 areas)
Other functions	Sharpness, Defog, Mirror effect
Live video	CVBS 1.0 Vp-p / 75 Ω BNC
Panning Range	360° Endless
Panning Speed	Manual approx. 0.15°/s-120°/s 8 Steps, Preset approx. 1°/s-255°/s, Alarm Trigger Speed 360°/s
Panning Mode	Manual, Auto, Manual Position, Sequential Position
Tilting Range	-6° - +96°
Tilting Speed	Manual approx. 0.15°/s-120°/s 8 Steps, Preset approx. 1°/s-255°/s, Alarm Trigger Speed 360°/s
Tilting Mode	Manual, Auto, Manual Position, Sequential Position
Minimum Aperture Ratio	1:1.6 (WIDE)-3.5 (TELE)
Control Function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position
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 ]
Exposure Mode	Auto / Manual
Digital image stabilization	Off / On
Auto Mode	Off / AUTO / SEQ / TOUR
PTZ Control	Pan, tilt, zoom-in / zoom-out, absolute position, and mouse click function
PTZ preset scheduling	Yes, via Web interface
Schedule Setting	Off / Auto Mode / Preset position
Encryption	Base64 HTTP encryption
Access	Multiple user access levels with password protection
User accounts	10 user accounts available
IP address filter	Yes
Multi IP address	Yes
Users	10 simultaneous users
OSD (On-Screen Display)	Text overlay for date, time, camera name, and PTZ position
Alarm event triggers	Alarm / motion / audio / Network lost detection
Alarm event actions	FTP, HTTP post, SD card
CPU	Embedded SoC ARM11, 528MHz, 256MB DDR2, 256MB flash memory
Firmware	Firmware upgrade via HTTP ; Firmware available to download at <a href="http://meritlilin.com">meritlilin.com</a>
Network Interface/Ethernet	10Mbps / 100Mbps, RJ-45
CE	Yes
FCC	Yes
OS requirement	Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8
Web browser	Microsoft® Internet Explorer® 9.0 and later
CPU requirement	Intel Core 2 Duo E6400 2.13GHz or above
RAM requirement	2GB or above, Independent Display Card

Protocols	IPv4, IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, ONVIF profile S, SNMP, Bonjour
Mobile phone	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
Video Display	LILIN Universal ActiveX & LILIN Java Applet
OS	Embedded Linux 2.6.32
Audio	2-way audio , G.711
SD Card (recording)	Support Micro SD/SDHC/SDXC card for circular recording (card is not included)
Alarm Input / output	6 Input (TTL 5Vdc), 2 Output (0.5A 120Vac,1A 24Vac)
Operating temperature	-10°C-+ 50°C (14°F-122°F)
Operating humidity	0%-90%
Dimensions	245mm x 155mm
Weight	2300g approx.
Power Supply	AC24V
Power Consumption	15.5W