

PTZ series | Indoor PTZ Camera

# IPS5204A / 5208A

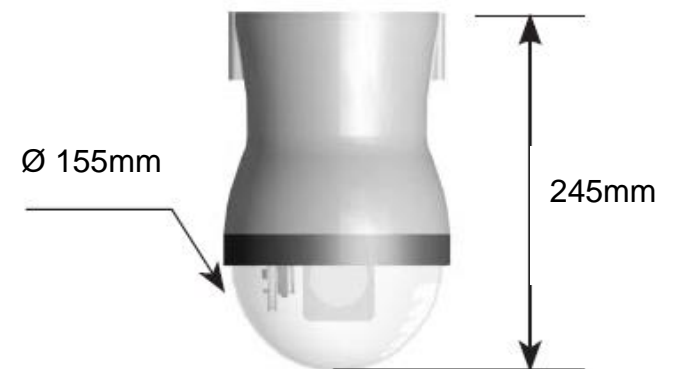
## 20X Day & Night 30fps Full HD PTZ Dome IP Camera

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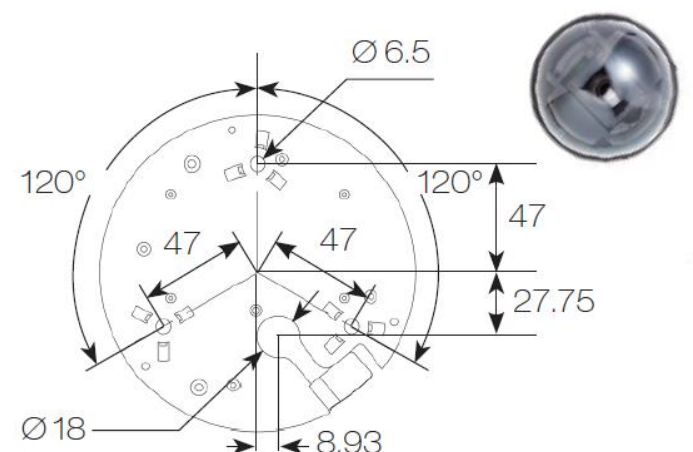
- ▶ Pan-tilt-zoom capabilities
- ▶ 20X optical zoom
- ▶ IR cut filter for day/night operations
- ▶ 1080p HD resolution
- ▶ Wide Dynamic Range up to 90dB

Dimensions: Ø 155mm x 245mm



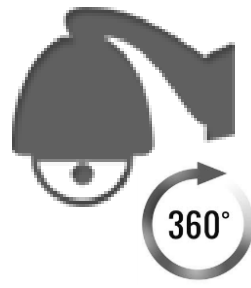
The IPS5204A / IPS5208A is 1080P Full HD PTZ Dome IP camera. The high-speed domes are capable of streaming HD video at up to 30 FPS. Featuring LILIN's Wide Dynamic Range (WDR) feature, the IPS5204A / IPS5208A captures highlights and shadows simultaneously, eliminating pixilation and smear. Combine this 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.

Diagram of mounting holes (unit in mm):



## PTZ Control Function

Pan-Tilt-Zoom (PTZ) cameras are able to perform remote directional and zoom control. Capable of making 360° continuous rotations and 102° tilt angle, the camera's field of view can be quickly zoomed and repositioned as needed to identify specific targets



## Video Security App

Available on Android and iOS – **LILINViewer** app provides security alarm push notification, real-time live viewing, and remote video playback



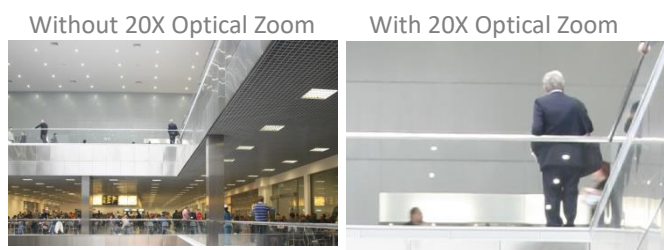
## ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IPS5204A / 5208A PTZ camera is ONVIF Profile S conformant



## 20X Optical Zoom

Remote pan/tilt/zoom operations with 20X optical lens makes it possible to zoom in on distant object with absolute clarity



## SD Cards in Sync with NAV Software

IPS5204A / 5208A camera with built-in Micro SD/SDHC/SDXC card slots can provide redundant video viewing and recording. You can synchronise an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)



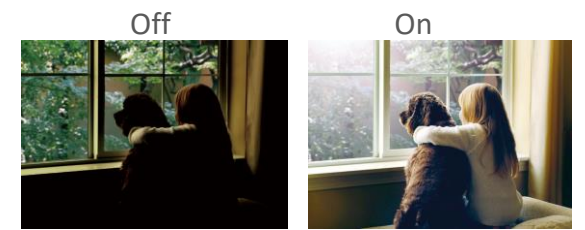
## Two-way Audio Support

With 2-way audio communication, you can project your voice through the camera's speaker instead of hearing what's going on (1-way audio)



## Back Light Compensation

Back Light Compensation (BLC) adjusts the exposure of the entire image to properly expose the subject in the foreground. No matter if the main object is moving toward left, right, upper, lower, or any location in the screen, BLC provides perfect exposure for an object in front of strong back light



## Day and Night Operations via Removal of the IR-cut filter

IPS5204A / 5208A camera was designed using a mechanical IR cut filter for increased IR sensitivity resulting in improved night time images. The removable IR-cut filter allows day and night operations even in the low lux condition providing outstanding vision



## Motion Detection

Detect motion and capture the event. Motion in the selected area will provoke an alert



## Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders



## Noise Reduction

Remove noise from a signal. Suppressing noise in an image in low light conditions and able to retain quality videos at the same time



## Ceiling Mount

The IPS5204A / 5208A can easily be mounted to any ceiling



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

### Video performance & Power

Model#	IPS5204A	IPS5208A
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-ON) 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-ON)	
Power consumption	15.5W	16W
Power supply	AC24V	AC100 - 240V

### Sensor

Sensor type	1/2.8 Type Exmor CMOS Sensor
Effective pixels	1944 (H) x 1224 (V) = 2,379,456 (pixels)
Total number of pixel	1952 (H) x 1236 (V) = 2,412,672 (pixels)

### Certifications

CE	Yes
FCC	Yes

### Lens

Zoom ratio	20X optical zoom
Focal length	4.7mm (WIDE)-94.0mm (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 field of view	Approx. 59.94°( H ) 36.16°( V ) (WIDE end), approx. 3.30°( H ) 1.87°( V ) (TELE end), (1080p mode)

### Pan & Tilt

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

### Environmental

Ambient operating temperature	-10°C-+ 50°C (14°F-122°F)
Operating humidity	0%-90%

### PC requirement

CPU	Intel Core 2 Duo E6400 2.13GHz or above
OS	Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8
RAM	2GB or above, Independent Display Card
Web browser	Microsoft® Internet Explorer® 9.0 and later

### Mechanical

Dimensions (H x D)	245mm x 155mm
Weight	2300g approx.

### Main functions

Control function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position
Digital zoom ratio	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	Auto / Manual

### Input / output

Video output	CVBS 1.0 Vp-p / 75 Ω BNC
Alarm input / output	6 Input (TTL 5Vdc), 2 Output (0.5A 120Vac, 1A 24Vac)

### Video streaming

Video compression	H.264, Motion JPEG
Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Bitrate	128 Kbps to 8 Mbps Frame rate and bitrate controllable on-the-fly VBR / CBR / GOP supported

### Video resolution (H x V)

1080P	1920 x 1080
720P	1280 x 720
D1	720 x 480, 720 x 576
CIF	352 X 240
Frame rate	H.264: up to 30FPS @ 1920 x 1080 Motion JPEG: up to 30FPS @ 720 x 480

### Video functions

Day/Night (IR-cut filter)	Colour (Day), Monochrome (Night), Auto
Scanning system	Progressive scan
White balance	ATW/Indoor(3200K)/Outdoor(5800K) /Manual(1800K ~10500K)
Shutter	Auto / manual(1/1 to 1/100,000)
Exposure mode	Auto / Manual
Back light compensation	Off / BLC / WDR
Digital noise reduction	Off / On (2D, 3D)
Dynamic privacy zone mask	Off / On (up to 16 areas)
Auto mode	Off / AUTO / SEQ / TOUR
Web PTZ control	Pan, tilt, zoom-in / zoom-out, absolute position, and mouse click function
Schedule setting	Off / Auto Mode / Preset position
Digital image stabilization	Off / On
Auto gain control	0 ~ 30dB
Other functions	Sharpness, Defog, Mirror effect

### Integration

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)
Firmware	Firmware upgrade via HTTP Firmware available to download at <a href="http://meritilin.com">meritilin.com</a>
Alarm event triggers	Alarm / motion / audio / Network lost detection
Alarm event actions	FTP, HTTP post, SD card
Alarm weighted mode	Support

### Network

Ethernet	10Mbps / 100Mbps, RJ-45
Connectivity	ONVIF Profile S
Users	10 simultaneous users
PTZ preset scheduling	Yes, via Web interface
OSD	Text overlay for date, time, camera name, and PTZ position
CPU, Memory	Embedded SoC ARM11, 528MHz, 256MB DDR2, 256MB flash memory
Video display	LILIN Universal ActiveX & LILIN Java Applet
OS	Embedded Linux 2.6.32
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
IP Filter	Yes
Multi IP address	Yes

### Network security

User accounts	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption
RTSP Authentication	On / Off