

PTZ series | PTZ Camera

IPS5304 / 5308

30X Day & Night 1080P HD PTZ Dome Camera

www.meritlilin.com



<p>SD card recording</p>	<p>Speed Dome</p>	<p>H.264</p>	<p>Back Light Compensation</p>
<p>2-way audio</p>	<p>PTZ control</p>	<p>Day / Night</p>	<p>30X zoom</p>

- ▶ PTZ camera
- ▶ Pan-tilt-zoom capabilities
- ▶ 30X optical zoom
- ▶ IR cut filter for day/night operations
- ▶ 1080p HD resolution

Dimensions: Ø 155mm x 245mm

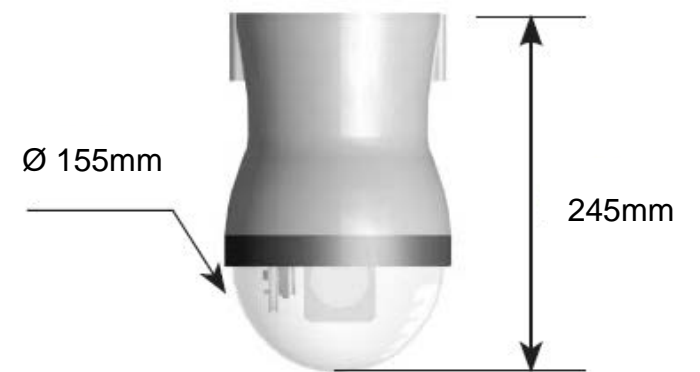
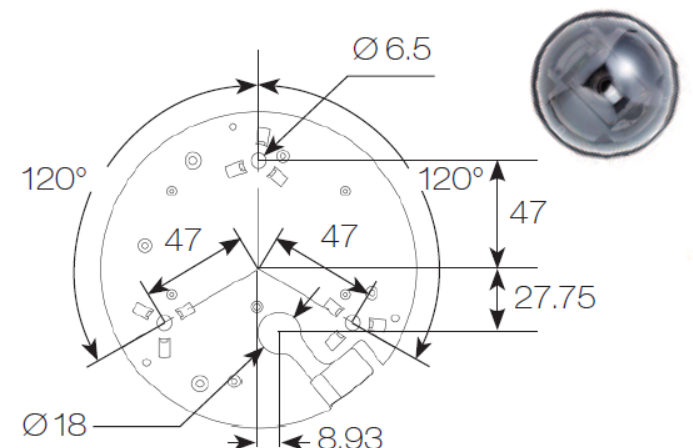


Diagram of mounting holes (unit in mm):



Full HD
1080

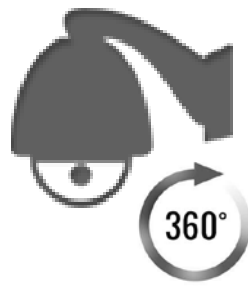
ONVIF S



The IPS5304 / IPS5308 is 1080P HD PTZ Dome IP Camera. The high-speed dome is capable of streaming HD video at up to 30 FPS. Featuring LILIN's Wide dynamic Range (WDR) feature, the IPS5304 / IPS5308 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, users can accurately position the camera to identify specific targets. The 30x optical zoom gives the IPS5304 / IPS5308 an impressive range. With a focal length of 4.4mm (WIDE)~132.0mm (TELE), IPS5304 / IPS5308 is ideal for numerous applications.

PTZ Control Function

Pan-Tilt-Zoom (PTZ) cameras are able to perform remote directional and zoom control. Capable of making 360° continuous rotations and 120° tilt angle, the cameras 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



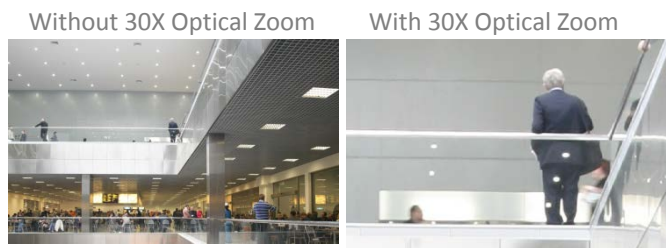
ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IPS5304 / 5308 PTZ camera is ONVIF Profile S conformant



30X Optical Zoom

Remote pan/tilt/zoom operations with 30X optical lens makes it possible to zoom in on distant object with absolute clarity



SD Cards in Sync with NAV Software

IPS5304 / 5308 camera with built-in Micro SD/SDHC card slots can provide redundant video viewing and recording. You can synchronise an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)



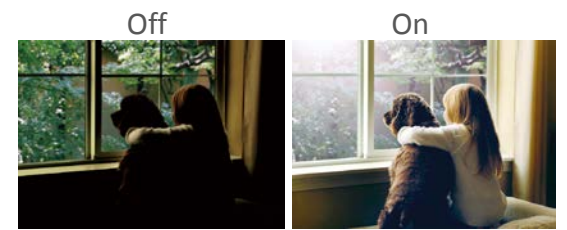
Two-way Audio Support

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

IPS5304 / 5308 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 IPS5304 / 5308 can easily be mounted to any ceiling



30X Day & Night 1080P HD PTZ Dome Camera

Video performance & Power

Model#	IPS5304	IPS5308
Low Light Mode (Colour)	0.4 lux (1/30 sec, F1.4(Wide), 50 IRE, AGC-Gain:45dB ICR-OFF) 0.1 lux (1/8 sec, F1.4(Wide), 50 IRE, AGC-Gain:45dB ICR-OFF) 0.01 lux (1/8 sec, F1.4(Wide), 50 IRE, AGC-Gain:45dB ICR-ON)	
Power consumption	15.5W	16W
Power supply	AC24V	AC100~240V

Sensor

Sensor type	1/3 Type CMOS Sensor
Effective pixels	1944 (H) × 1092 (V) = 2,122,848 (pixels)
Total number of pixel	1956 (H) × 1266 (V) = 2,476,296 (pixels)

Certifications

CE	Yes
FCC	Yes

Lens

Zoom ratio	30X optical zoom
Focal length	4.4 mm (WIDE)~132.0 mm(TELE)
Minimum aperture ratio	1 : 1.4 (Wide)~4.6 (Tele)
Minimum object distance	10 mm (WIDE end), 1.5m (TELE end)
Iris range	F1.4~32 , Close
Angle field of view	Approx. 63.4°(H) 38.51°(V) (WIDE end), approx. 2.3°(H) 1.33°(V) (TELE end), (1080p mode)

Pan & Tilt

Iris	Auto / Manual
Digital zoom ratio	12X
Panning range	360° Endless
Panning mode	Manual , Auto , Manual Position , Sequential Position
Panning speed	Manual approx. 0.15°/s~120°/s 8 Steps, 16 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, 16 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 Pentium 4 1.8GHz or above
OS	Windows 2000 , Windows XP , Windows Vista, Windows7, Windows 8
RAM	1GB or above ,Independent Display Card
Web browser	Microsoft® Internet Explorer® 6.0 or later

Mechanical

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

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 5 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	
CIF	352 X 240	
Frame rate	H.264 : up to 30 FPS at SXGA(1280 x 1024) Motion JPEG : up to 30 FPS at D1(720 x 480)	
Multiple profile	Profile #1	H.264 : up to 30 FPS @ 1920 x 1080 , MJPEG : up to 30 FPS @ 720 x 480
	Profile #2	H.264 : up to 30 FPS @ 1280 x 720 , MJPEG : up to 30 FPS @ 352 x 240
	Profile #3	H.264 : up to 30 FPS @ 1920 x 1080 , MJPEG : up to 30 FPS @ 1280 x 720
	Profile #4	H.264 : up to 30 FPS @ 720 x 480 , MJPEG : up to 15 FPS @ 1920 x 1080

Video functions

Day/Night (IR-cut filter)	Colour (Day), Monochrome (Night), Auto
Scanning system	Progressive scan
White balance	ATW / Manual (1800K~10500K)
Electric shutter speed	Auto / manual(1/1~1/30,000)
Back light compensation	OFF / BLC / WDR
Dynamic privacy zone mask	OFF / ON (Up to 16 area)
Auto mode	OFF / AUTO / SEQ / TOUR / PATROL
Schedule setting	OFF / AUTO / SEQ / TOUR / PATROL / Preset Position
Auto gain control	0 ~ 45dB
Adjustable setting	Sharpness
Digital effect	OFF / Mirror / Flip
D/N quality setting	Yes

Integration

Mobile application	Integrated to LILIN mobile app (LILINViewer) iPhone, iPad, Android support
Video management	ONVIF Profile S LILIN CMX3.6 NAV 1.0 Third party VMS through LILIN HTTP API
Firmware	Firmware upgrade via HTTP Firmware available to download at meritilin.com
Alarm event	FTP,SMTP, HTTP post, SD card, SAMBA
Alarm weighted mode	Support

Network

Ethernet	10Mbps / 100Mbps , RJ-45
Connectivity	ONVIF Profile S
Users	8 simultaneous users
OSD	Text overly for date, time, and camera name
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 supported	G.711
Protocols	IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SNMP
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
IP filter	Yes
RTSP Authentication	On / Off

Main functions

Control function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position
Zoom speed	Slow / MID. / Fast Selectable [Fast : Approx. 5.0 Second (Tele to Wide) in Manual Mode]
Focus speed	Slow / MID. / Fast Selectable [Fast : Approx. 5.0 Second (Far to Near) in Manual Mode]
Focus	Auto / Manual
Sense up (slow shutter)	Off / Auto
Digital noise reduction	Off / On (2D, 3D)
Alarm function	Image upload over FTP and E-mail by alarm / motion detection
Web PTZ control	Pan, tilt, zoom in / out, absolute position, and video-click-n-move
PTZ preset scheduling	Yes, via web interface
SD card recording	Support Micro SD/SDHC/SDXC card for circular recording (card is not included)
Exposure mode	Auto / Manual
Enhanced Intensity	OFF / ON / HLC
Defog	OFF / ON (Defog-1 , Defog-2 , Defog-3 , AUTO)
Electronic Image Stabilization	OFF / ON (Digital Zoom max 2.0x)