

PTZ series | Outdoor Vandal PTZ Camera

# IPS4204E/4208E

## 20X Day & Night 2MP Outdoor Vandal PTZ Camera

www.meritlilin.com



**Full HD  
1080**

The IPS4204E / IPS4208E is outdoor fitted Day & Night 1080P HD WDR PTZ Dome IP Camera that in compliance with LILIN's already established HD PTZ series of cameras. The camera can be powered through High Power over Ethernet, which complies with the PoE standard IEEE 802.3at. The high-speed domes are capable of streaming HD video at up to 30 FPS. Featuring LILIN's Wide dynamic Range (WDR) feature, the IPS4204E / IPS4208E captures highlights and shadows simultaneously, eliminating pixilation and smear. Combine this with Digital 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

- Speed Dome**
- 2-way audio**
- IP66 | IK10**
- SD card recording**
- 20X zoom**
- PTZ control**
- Day / Night**
- IP based PoE**

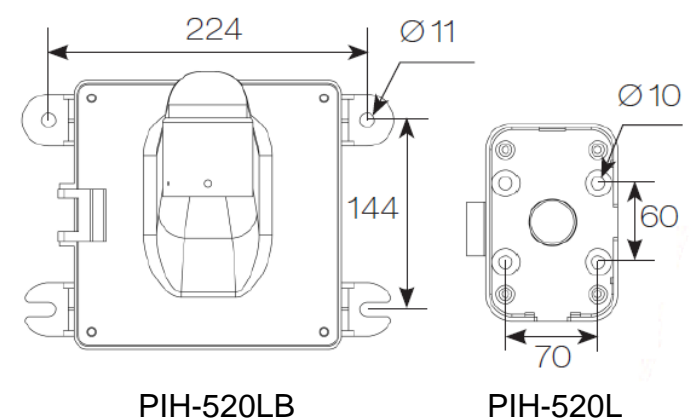
Mounting Options	
Wall Mount	BTS03G
Wall Mount	PIH-520LB
Wall Mount	PIH-520L
Swan Neck	PIH-520G
Pendant Mount	PIH-520HB
Pendant Mount	BTS06W

- ▶ Outdoor Vandal PTZ camera
- ▶ 20X optical zoom
- ▶ IP66 rain and dust resistant
- ▶ IR cut filter for day/night operations
- ▶ 1080p HD resolution
- ▶ Wide Dynamic Range
- ▶ IK10 impact resistant

**Dimensions:** Ø 210 x 332mm



**Diagram of mounting holes (unit in mm):**



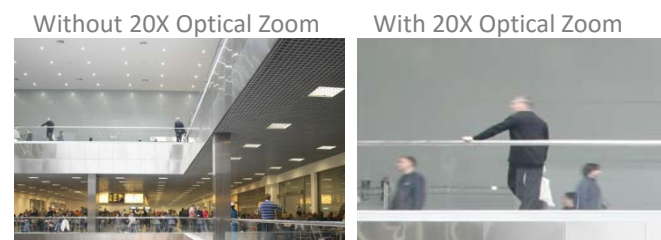
## PTZ Control Function

Pan-Tilt-Zoom (PTZ) cameras are able to perform remote directional and zoom control. Capable of making 360° continuous rotations and 120° tilt angle, the cameras field of view can be quickly zoomed and repositioned as needed to identify specific targets



## 20X Optical Zoom

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



## Video Security App

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



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

IPS4204E / 4208E 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



## SD Cards in Sync with NAV Software

IPS4204E / 4208E 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)



## Motion Detection

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



## Wind and Rain Standards

Meet international IP66 standards for dust and moisture resistant allowing you to install cameras in environments subject to wind and rain



## 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)



## ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IPS4204E / 4208E PTZ camera is ONVIF Profile S conformant



## Wide Dynamic Range (WDR)

Wide Dynamic Range (WDR) displays details of both the brightest and darkest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality



## Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders



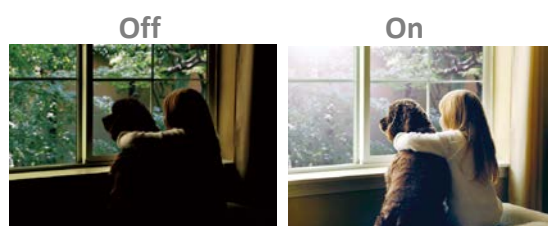
## Noise Reduction

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



## 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



## IK10 Impact Resistant

IK10-certified housing designed to protect the camera from destructive behaviour



## 20X Day & Night 2MP Outdoor Vandal PTZ Camera

### Video performance

Model#	IPS4204E	IPS4208E
Low Light Mode (Colour)	0.4 Lux (1/30 sec, F1.6(wide), 50IRE, AGC-Gain: 45dB, ICR-OFF) 0.1 Lux (1/8 sec, F1.6(wide), 50IRE, AGC-Gain: 45dB, ICR-OFF) 0.01 Lux (1/8 sec, F1.6(wide), 50IRE, AGC-Gain: 45dB, ICR-ON)	
Wide Dynamic Range (WDR)	Off / On	

### Power

Model#	IPS4204E	IPS4208E
Power consumption	37W (with Heater) / PoE+ 14W (does not support the heater)	48W (with Heater) / PoE+ 14W (does not support the heater)
PoE+	High power PoE	
Power supply	AC24V Power over Ethernet+	AC100~240V PoE+ 14W (does not support the heater)

### Sensor

Sensor type	1/2.8 Type CMOS Sensor
Effective pixels	1944 (H) x 1224 (V) = 2,379,456 (pixels)
Total number of pixels	1952 (H) x 1236 (V) = 2,412,692 (pixels)

### Certifications

CE	Yes
FCC	Yes
IP Rating	IP66 waterproof
Vandal resistant rating	IK10 impact resistant

### 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	10mm (WIDE end), 1.0m (TELE end)
Iris range	F1.6~36.2, close
Angle field of view	Approx. 59.6° (WIDE end), approx. 3.2° (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 ) / PoE+ - 40°C~+ 50°C ( -40°F~122°F ) / AC
Operating humidity	0%~90%

### PC requirement

CPU	Intel Pentium 4 1.8GHz or above
OS	Windows 2000, Windows XP, Windows Vista, Windows 7
RAM	1GB or above ,Independent Display Card
Web browser	Microsoft® Internet Explorer® 6.0 and later

### Mechanical

Dimensions (H x D)	332mm x 210mm
Weight	3200g approx.

### Heater & Fan

Heater activation	On: 15°C, Off: 25°C
Fan activation	On: 35°C, Off: 25°C

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

### Video functions

Day/Night (IR-cut filter)	Colour (Day), Monochrome (Night), Auto
Scanning system	Progressive scan
White balance	ATW / Manual (1700K~11000K)
Electric shutter speed	1/1 to 1/30,000
Adjustable settings	Sharpness
Exposure mode	Auto / Manual
Back light compensation	Off / On
Digital noise reduction	Off / On (Level 1~3)
Dynamic privacy zone mask	Off / On (up to 8 areas)
Auto mode	Off / AUTO / SEQ / TOUR / PATROL
Web PTZ control	Pan, tilt, zoom-in / zoom-out, absolute position, and video-click-n-move
Schedule setting	OFF / Auto mode / Preset Position
Auto gain control	0 ~ 45dB
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
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 meritlilin.com
Alarm function	Image upload over FTP and E-mail by alarm / motion detection
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
PTZ preset scheduling	Yes, via Web interface
OSD	Text overlay 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	G.711
Protocols	IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, ONVIF Profile S, ICMP, IGMP
Multi IP address	Yes

### Network security

User accounts	10 users 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
Digital zoom ratio	12X
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 ]
Auto Focus	Auto / Manual
Iris	Auto / Manual

### Input / output

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