PTZ series │ Outdoor Vandal PTZ Camera

IPS8364N / 8368N / 8364P / 8368P
36X Day & Night WDR 650TVL PTZ Camera (Outdoor)

www.meritlilin.com

Speed Dome

2-way audio

IP66 │ IK10

H.264

36X zoom

PTZ control

Day / Night

WDR

Onvif S

The IPS8364/IPS8368 is 36X Day & Night WDR 650TVL 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 IPS8364/IPS8368 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.

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

▶ 36X optical zoom

▶ 650 Horizontal TV Lines

▶ IP66 rain and dust resistant

▶ Up to 128 Programmable Preset Positions

▶ IR cut filter for day/night operations

▶ Wide Dynamic Range

▶ IK10 impact resistant

▶ 256X Digital zoom

Dimensions: Ø 210 x 332mm
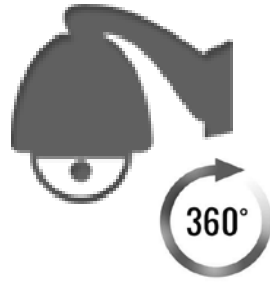
Ø 210
332

Diagram of mounting holes (unit in mm):

224
Ø 11
144
Ø 10
60
70

PIH-520LB   PIH-520L
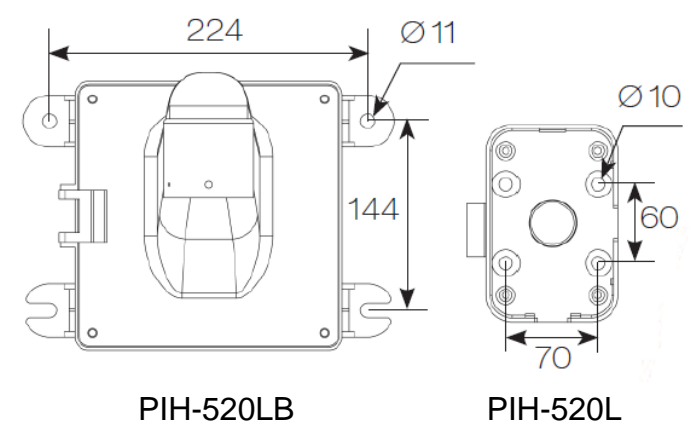
PTZ Control Function

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

36X Optical Zoom

Remote pan/tilt/zoom operations with 36X optical lens makes it possible to zoom in on distant object with absolute clarity

Without 36X Optical Zoom   With 36X Optical Zoom
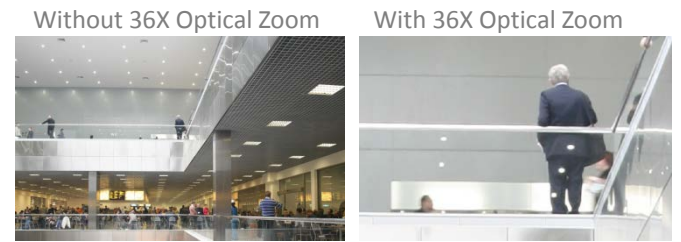
Video Security App

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

IPS8364N / 8368N / 8364P / 8368P 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

Privacy Zone

Privacy Zone is a feature used to protect personal privacy by concealing private areas in the camera's field of view. Doorways and house windows for example are not subject to surveillance

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. IPS8364N / 8368N / 8364P / 8368P 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

ON   OFF

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

ON   OFF

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

Off   On
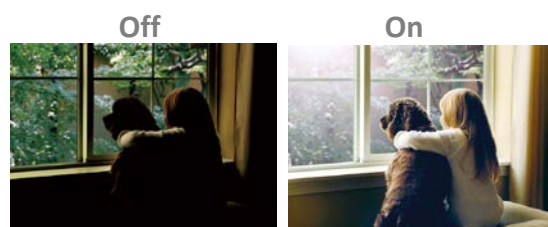
IK10 Impact Resistant

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

36X Day & Night WDR 650TVL PTZ Camera (Outdoor)

Video performance

Model#	IPS8364N	IPS8368N	IPS8364P	IPS8369P
Low Light Mode	Color : 0.1 Lux at F1.4 , Mono : 0.05 Lux at F1.4			
Wide Dynamic Range (WDR)	Off / On (60 dB)			
Synchronization	Internal / line lock selectable			

Power

Model#	IPS8364N	IPS8368N	IPS8364P	IPS8369P
System	NTSC		PAL	
Power consumption (with Heater)	25W	63W	25W	63W
Power supply	AC24V	AC100～240V	AC24V	AC100～240V

Sensor

Model#	IPS8364N	IPS8368N	IPS8364P	IPS8369P
Sensor type	Sony 1/4" 960H			
Effective pixels	976(H) x 494(V)		976(H) x 582(V)	
Total number of pixels	1028(H) x 508(V)		1028(H) x 596(V)	

Certifications

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

Lens

Zoom ratio	36X optical zoom
Focal length	3.3mm～119mm
Minimum aperture ratio	1:1.4 (Wide)～4.2 (Tele)
Minimum object distance	1.5m (Tele)
Iris range	F1.4～360, close
Angle field of view	Wide : 72.51° (D) 60.15° (H) 46.3° (V) Tele : 2.13° (D) 1.47° (H) 1.20° (V)

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	-40°C － +50°C (-40°F － 122°F)
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	Ø 210 mm x 332 mm
Weight	3200g approx.

Heater & Fan

Heater activation	On: 15℃, Off: 25℃
Fan activation	On: 35℃, Off: 25℃

Input / output

Alarm input / output	3 Input [Alarm In 1 － 3 (NC / NO) (TTL 5Vdc)] , 1 Output (Alarm Out NC / NO) (0.5A 120Vac,1A 24Vac)
Video output	CVBS 1.0 Vp-p / 75 Ω BNC

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)

960H	960 x 480 (NTSC) 960 X 576 (PAL)
D1	720 x 480
CIF	352 x 240
Frame rate	H.264 : up to 30/25 FPS at 960H resolution Motion JPEG : up to 30/25 FPS at D1 resolution
Horizontal resolution	Color : 650 TV Lines , Mono : 700 TV Lines
Signal to noise ratio	More Than 50 dB (AGC : Off)

Video functions

Model#	IPS8364N	IPS8368N	IPS8364P	IPS8369P
Day/Night (IR-cut filter)	Colour (Day), Monochrome (Night), Auto, Schedule			
Scanning system	2:1 Interlace			
White balance	ATW / AWC / manual (1800K～10500K)			
Electronic image stabilizer	Off / On			
Slow shutter speed	Up to 15 fields			
Electric shutter speed	1/60 to 1/100,000		1/50 to 1/100,000	
Scanning frequency	15.734KHz(H) / 60Hz(V)		15.625KHz(H) / 50Hz(V)	
Adjustable settings	Sharpness			
Exposure mode	Auto / Manual			
Back light compensation	Off / On			
2D+3D Digital noise reduction	Off /low / middle / high			
Privacy zone	Off / on selectable (Up to 8 Zones Settings)			
Auto mode	Off / auto / seq / tour / PATROL (STOP / PLAY / LEARN)			
Web PTZ control	Pan, tilt, zoom-in / zoom-out, absolute position, and video-click-n-move			
Schedule setting	Alarm input / auto mode / daylight saving time			
ATR (Adaptive tone reproduction	Off / on (low / middle / high)			
HLC (High light compensation)	Off / Auto			
Auto gain control	Off /low / middle / high			
Digital effect	Off / V-flip / mirror / rotate			
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 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
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 / patrol
Digital zoom ratio	256X
Control interface	RS-485 Transmission
Protocol	LILIN (MLP1,MLP2) / PELCO-D / PELCO-P / Panasonic / Kalatel
Password lock	Function setup
Character display	On / off (preset id : 16 alphanumeric characters , zoom ratio , alarm message , date / time , pan / tilt angle)
Zoom speed	0 ～7 selectable [7: Approx. 7.0 Second (Tele to Wide) in manual Mode]
Focus speed	Slow / MID. / Fast Selectable [Fast : Approx. 7.0 Second (Far to Near) in manual Mode]
Auto Focus	Auto / one push
Iris	ALC (Adjustable output target level) / manual