

PTZ series | Outdoor PTZ Camera

IRS1204 / 1208

20X Day/Night 2-megapixel HD Infrared PTZ Camera

www.meritlilin.com



The IRS1204 / IRS1208 are infrared PTZ options with built-in IR LEDs that are able to see in almost complete darkness, providing clear, detailed video clarity at night-time for round-the-clock video surveillance. IR security PTZ – IRS1204 / IRS1208 see at night with IR distance of 150M. The IRS1204 / IRS1208 are indoor/outdoor fitted 20X Day & Night 2MP HD PTZ Dome IR Camera that in compliance with LILIN's already established PTZ series of cameras. The camera can be powered through AC24V / AC100~240V. The high-speed domes are capable of streaming HD video at up to 30 FPS. Featuring LILIN's Wide Dynamic Range (WDR) feature, the IRS1204 / IRS1208 capture highlights and shadows simultaneously, eliminating pixilation and smear. The IP66-rated housing is designed to help the camera body withstand rain and dust and ensures operation under a multitude of harsh weather conditions. 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

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

- ▶ Outdoor PTZ camera
- ▶ 20X optical zoom
- ▶ IP66 rain and dust resistant
- ▶ 150-metre infrared night vision
- ▶ 1080p resolution
- ▶ Wide Dynamic Range
- ▶ H.264 and Motion JPEG multi-profile video streaming

Dimensions: (unit: mm)
Body: Ø 228 (D) x 347 mm (H)

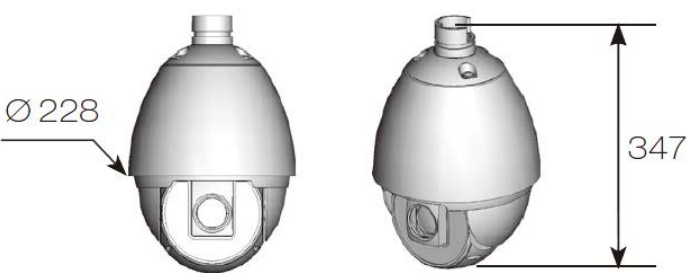
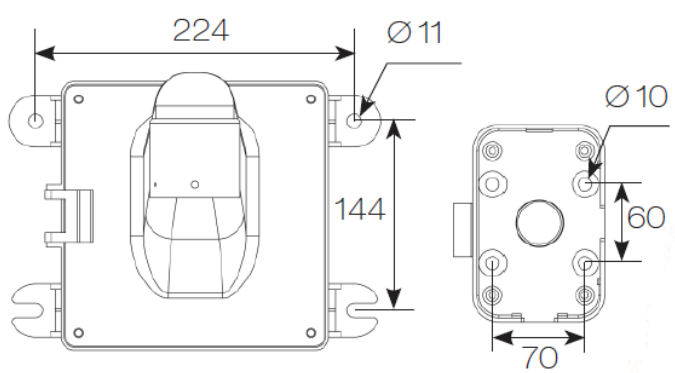


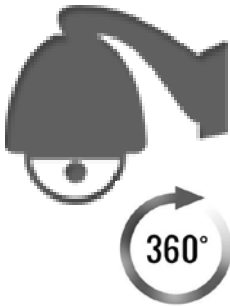
Diagram of mounting holes (unit: mm):



PIH-520LB PIH-520LW

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 – LILIN Pro app provides security alarm push notification, real-time live viewing, and remote video playback



SD Cards in Sync with NAV Software

IRS1204 / 1208 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)



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



ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IRS1204 / 1208 PTZ camera is ONVIF Profile S conformant



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



30X Optical Zoom

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



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

IRS1204 / 1208 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



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)



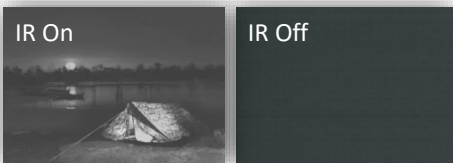
Wide Dynamic Range (WDR)

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



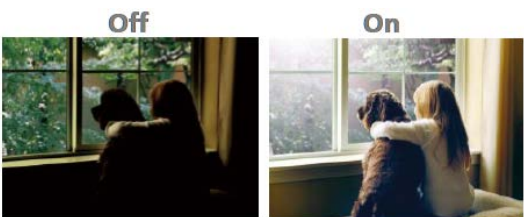
IR Infrared Night Vision

Infrared PTZ options with built-in LEDs that are able to see in almost complete darkness, providing clear, detailed video clarity at night-time for round-the-clock video surveillance



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



20X Day/Night 2-megapixel HD Infrared PTZ Camera

Video performance			
Model#		IRS1204	IRS1208
Low Light Mode	Colour	0.4 Lux [F1.6, 1/30(1/25)Sec, 50%, AGC On]	
	Mono	0.03 Lux [F1.6, 1/30(1/25)Sec, 50%, AGC On]	
	IR On	0 Lux	
Wide Dynamic Range		Off / On	

Power		
Model#	IRS1204	IRS1208
Power consumption	67W	
Power supply	AC24V±10%	AC100～240V

Night vision (infrared LED)	
Distance	150m
Peak wavelength	850nm
Beam spread	Automatically adjusted, Depending on the zoom ratio

Sensor	
Sensor type	1/2.8 Type Exmor CMOS Sensor
Effective pixels	1,944 (H) x 1,224 (V) = 2,379,456 (pixels)
Total number of pixels	1,952 (H) x 1,236 (V) = 2,412,672 (pixels)

Certifications	
CE	Yes
FCC	Yes
IP Rating	IP66 waterproof

Lens	
Zoom ratio	20X optical zoom
Focal length	4.7 mm (Wide)～94.0 mm(Tele)
Minimum aperture ratio	F1.6 (Wide)～F3.5 (Tele)
Minimum object distance	10 mm (Wide), 1.0M (Tele)
Iris range	Auto / Manual
Angle field of view	59.6°～3.2°(H), 35.7°～1.8°(V) [1080p Mode]

Pan & Tilt	
Panning range	360° Endless
Pan / Tilt mode	Manual, Auto, Manual Position, Sequential Position
Panning speed	Pan Manual Speed: 0.15°～120°/s, Pan Preset Speed: 1°～255°/s
Tilting range	-5°～+90°
Tilting speed	Tilt Manual Speed: 0.15°～120°/s, Tilt Preset Speed: 1°～255°/s

Environmental	
Ambient operating temperature	-40℃～50℃ (-40°F～122°F)

PC requirement	
CPU	Intel Pentium 4 1.8GHz or above
OS	Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8, Windows 8.1
RAM	1GB or above, Independent Display Card
Web browser	Microsoft® Internet Explorer® 6.0 and later

Mechanical	
Dimensions (D x H)	Ø 228mm x 347 mm
Weight	4700g approx.

Fan	
Fan activation	On: 35℃, Off: 25℃

Input / output	
Alarm input / output	6 Input (TTL DC5V), 1 Output (0.5A AC120V,1A AC24V)
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	128Kbps to 5Mbps Frame rate and bit rate 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 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	Auto (Normal / Sodium / Mercury) / Manual (Red/Blue)
Shutter speed	Auto / Manual, 1/1(1/0.75)sec – 1/30,000sec.
Slow shutter	Off / Auto (256X)
Digital effect	Off / Mirror / Flip
Sharpness	Auto / 1～16
Exposure mode	Auto / Manual
Back light compensation	Off / On
Digital noise reduction	Off / On (Level: 1～3)
Privacy mask	Off / On (up to 8 areas)
Auto mode	Off / On (Scan / SEQ / Tour / Patrol)
Web PTZ control	Pan, tilt, zoom in / out, absolute position, and video-click-n-move
Schedule setting	Off / Auto Mode / Preset position
Auto gain control	0～45 dB(16 steps)
D/N quality setting	Yes

Integration	
Mobile application	Integrated to LILIN mobile app (LILIN Pro) iPhone, iPad, Android support
Video management	ONVIF Profile S LILIN CMX 3.6 / NAV 1.0 Third party VMS through LILIN HTTP API
SD card recording	Support Micro SD/SDHC card for circular recording (built-in Micro SD card)
Firmware	Firmware upgrade via HTTP Firmware available to download at meritlilin.com
Alarm functions	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	IPv4/IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, Onvif, ICMP, IGMP, SNMP
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. 3.5 Sec (Tele to Wide) in Manual Mode]
Focus speed	Slow / MID. / Fast Selectable [Fast : Approx. 3.5 Sec (Far to Near) in Manual Mode]
Focus	Auto / Manual