

PTZ series | Outdoor PTZ Camera

IRS1304 / 1308

30X Day/Night 2-megapixel HD Infrared PTZ Camera

www.meritlilin.com



The IRS1304 / IRS1308 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 – IRS1304 / IRS1308 see at night with IR distance of 150M. The IRS1304 / IRS1308 are indoor/outdoor fitted 30X 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 IRS1304 / IRS1308 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

| | | | |
|----------------|--------------------|------------------------------|-----------------------|
| Speed Dome | Defog function | IP66 | SD card recording |
| 30X zoom | PTZ control | IR Infrared night vision | WDR |

| 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 PTZ camera
- ▶ 30X 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)

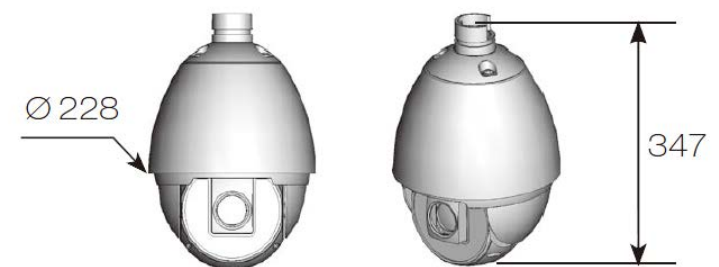
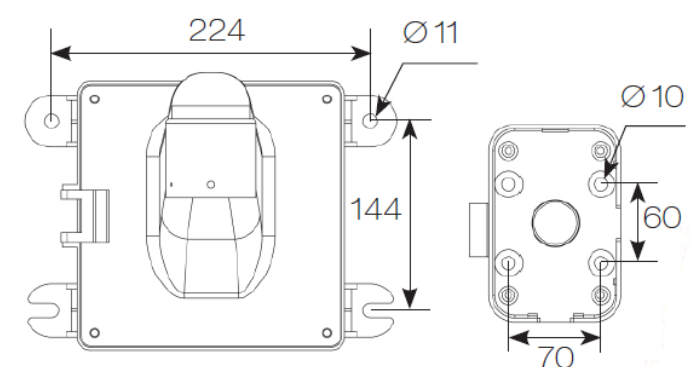


Diagram of mounting holes (unit: mm):

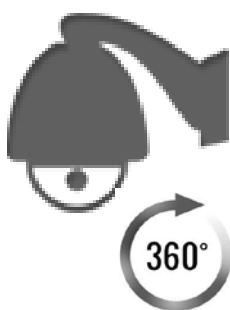


PIH-520LB

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



SD Cards in Sync with NAV Software

IRS1304 / 1308 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. IRS1304 / 1308 PTZ camera is ONVIF Profile S conformant



Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders



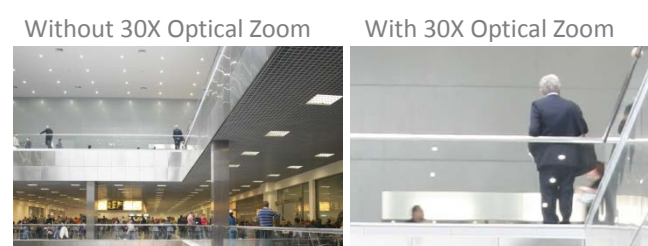
Noise Reduction

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 30X 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

IRS1304 / 1308 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



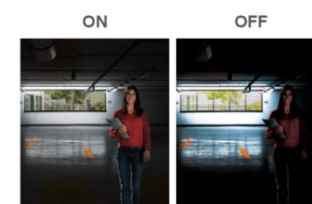
Two-way Audio Support

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)



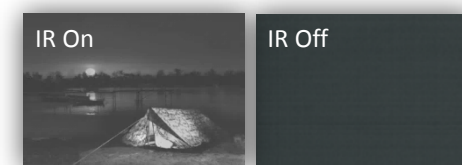
Wide Dynamic Range (WDR)

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



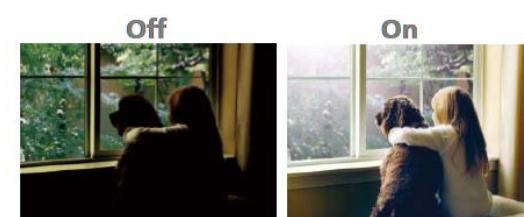
IR Infrared Night Vision

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



30X Day/Night 2-megapixel HD Infrared PTZ Camera

Video performance

| | | | |
|--------------------|----------|---|--|
| Model# | IRS1304 | IRS1308 | |
| Low Light Mode | Colour | 0.4 Lux [F1.4, 1/30(1/25)Sec, 50%, AGC On] | |
| | Mono | 0.03 Lux [F1.4, 1/30(1/25)Sec, 50%, AGC On] | |
| | IR On | 0 Lux | |
| Wide Dynamic Range | Off / On | | |

Power

| | | |
|-------------------|-----------|------------|
| Model# | IRS1304 | IRS1308 |
| 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 | 1/3 Type CMOS Sensor |
| Effective pixels | 1,944 (H) x 1,092 (V) = 2,122,848 (pixels) |
| Total number of pixels | 1,956 (H) x 1,266 (V) = 2,476,296 (pixels) |

Certifications

| | |
|-----------|-----------------|
| CE | Yes |
| FCC | Yes |
| IP Rating | IP66 waterproof |

Lens

| | |
|-------------------------|---|
| Zoom ratio | 30X optical zoom |
| Focal length | 4.4mm (Wide)~132mm (Tele) |
| Minimum aperture ratio | F1.4 (Wide)~F4.6 (Tele) |
| Minimum object distance | 10 mm (Wide), 1.5M (Tele) |
| Iris range | Auto / Manual |
| Angle field of view | 63.4°~2.3°(H), 37.3°~1.3°(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°C ~ 50°C (-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°C, Off: 25°C |
|----------------|---------------------|

Input / output

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|----------------------|--|
| 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

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|-----------------------------|--|
| 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 |
| Enhance intensity | Off / On (9 Steps) / HLC (9 Steps) |
| Back light compensation | Off / On |
| Digital noise reduction | Off / On (Level: 1~3) |
| Privacy mask | Off / On (up to 16 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 |
| Digital image stabilization | Off / On |
| Auto gain control | 0 ~ 45 dB(16 steps) |
| Defog | Off / 1 / 2 / 3 / Auto |
| D/N quality setting | Yes |

Integration

| | |
|---------------------|---|
| Mobile application | Integrated to LILIN mobile app (LILINViewer) 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 meritililn.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 |
| IP filter | Yes |
| RTSP Authentication | On / Off |

Network security

| | |
|------------------|--|
| User accounts | 10 users accounts available |
| Access | Multiple user access levels with password protection |
| Encryption | Base 64 HTTP encryption |
| Multi IP address | Yes |

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 |