**Easy to install**

**H.264**

**Back Light Compensation**

**IP66**

**Day / Night**

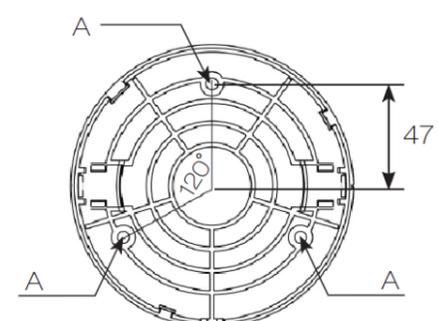**IK7**

**IP based** PoE

**WDR**

**IR Infrared night vision**

▸ Outdoor vandal dome

▸ IP66 rain and dust resistant

▸ Wide Dynamic Range

▸ IK7 impact resistant

▸ On-board Infrared lights – The camera
  can view up to 25 metres at night

▸ IR cut filter for day/night operations

▸ 1080p video resolution

▸ 3-year warranty and support

**HD**

**Onvif S**

**Dimensions (unit in mm):**
Ø 130 x 115

Ø 130

115

As with all Pro series cameras, the Day & Night 1080P HD VR Dome IR IP Camera IPR320X incorporates Sense up+, a unique technology that successfully delivers stunning video in low-light conditions. Utilizing intelligent image signal processing, AGC control, and 3D Noise Reduction, this model successfully delivers the ultimate low-light image without motion blur. The IPR320X is capable of producing four independent video streams, different streams can be set for different applications, depending on the individual user requirements. 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.

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

A

47

A          A

A (M3.0*25, wooden screw)

## 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

## Impact Resistant

IK7-certified housing designed to protect the camera from destructive behaviour

## Sense Up+

Deliver outstanding video outputs in poor light conditions without experiencing motion blur. You can see video clearly even during nighttime without sufficient lighting support

## Face Detection

Automatically detects a human face

## 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

IPR320X 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
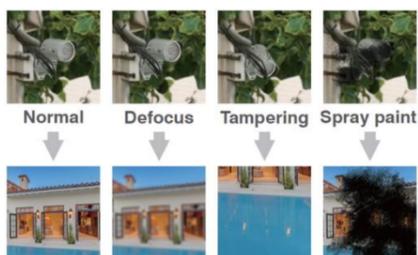
## ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IPR320X camera is ONVIF Profile S conformant

## Motion Detection

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

## Tamper Detection

Automatically detects camera sabotage or failure. Detects any attempts to tamper with the camera – partially or completely blocking its lens or field of view
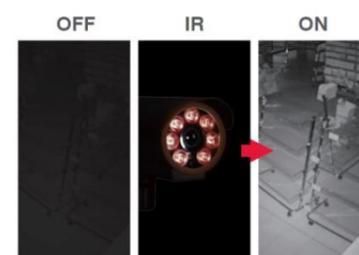
## Back Light Compensation

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

## Wide Dynamic Range

An Wide Dynamic Range image is made by taking 3 frames of the same scene and each at different shutter speeds to display details of both the darkest and brightest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality

## IR Infrared Night Vision

Infrared 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

**Day & Night 1080P HD Vandal Dome IR IP Camera**

## Video performance & power

| | |
|---|---|
| Model# | IPR320ESX3.6 |
| Low Light Mode (Colour) | 0.02 Lux at F1.4 (Low Light Mode) / 0 Lux with IR LED ON |
| Power consumption | 10.2W |
| Power supply | PoE (IEEE 802.3af compliant) |

## Lens

| | | |
|---|---|---|
| Focal length | | 3.3～12 mm |
| Iris | | F1.4 |
| Angle of view | H | 79.3°～29.8° |
| | V | 59.4°～22.4° |
| | D | 99°～37.3° |

## Sensor

| | |
|---|---|
| Sensor type | 1/2.8" CMOS image sensor |
| Effective pixels | 1984 (H) x 1105 (V) = 2,192,320 (pixel) |

## Certifications

| | |
|---|---|
| CE | Yes |
| FCC | Yes |
| IP rating | IP66 waterproof |
| IK rating | IK7 vandal proof |

## PC requirement

| | |
|---|---|
| CPU | Intel Pentium 4 1.8GHz or above |
| OS | Windows 2000 , Windows XP , Windows Vista, Windows 7, Windows 8 |
| RAM | 1GB or above ,Independent Display Card |
| Web browser | Microsoft® Internet Explorer® 6 and later |

## Mechanical

| | |
|---|---|
| Dimensions | Ø130 x 115mm |
| Weight | 1000g approx. |

## Video sreaming

| | |
|---|---|
| Video compression | H.264 , Motion JPEG |
| Streaming | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast |
| Bitrate | 128Kbps～8Mbps |
| | Frame rate and bit rate controllable on-the-fly |
| | VBR / CBR / GOP supported |

## Network security

| | |
|---|---|
| User accounts | 10 user accounts available |
| Access | Multiple user access levels with password protection |
| Encryption | Base 64 HTTP encryption |

## Night vision (infrared LED)

| | |
|---|---|
| Distance | 25m |
| Peak wavelength | 850nm |
| Beam spread | 30° |

## Main functions

| | |
|---|---|
| Sense up | Off / 1 frame / 2 frames / 3 frames / 7 frames |
| Sense up + | Yes |
| 3D Noise Reduction | Off / 1～32 selectable |
| Alarm function | Image upload over FTP and E-mail by face / tampering / motion detection |
| ePTZ & digital zoom | Yes, ROI is supported |

## Video resolution (H x V)

| | | |
|---|---|---|
| 1080P | | 1920 x 1080 |
| 720P | | 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, Schedule |
| Scanning system | Progressive scan |
| White balance | Auto / tungsten / indoor / fluorescents1 / fluorescents2 / outdoor1 / outdoor2 |
| Electrical shutter | 1/30(1/25)s～1/8000s |
| Back light compensation | Off / On |
| Privacy masking | Off / on (4 zones) |
| Auto gain control | 36 dB variable gain |
| Image effects | Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip |
| 2D WDR | Off / Auto / x2 / x3 / x4 |

## 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 |

## Network

| | |
|---|---|
| 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 |
| Ethernet | 10Mbps / 100Mbps Base-T, RJ-45 |
| OS | Embedded Linux 2.6.32 |
| Protocols | IPv4, IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SNMP, SIP, Bonjour |

## Environmental

| | |
|---|---|
| Operating temperature | -40°C～+50°C (-40°F～122°F) |