M Series | IP Bullet Camera

# MR8342 4MP Day & Night Fixed IR Vandal Resistant Bullet IP Camera



**4MP** 4-megapixel

**Day&Night**

**IP66** Weather Proof

**IK10** Vandal Proof

**CE** Certified

**FC** FCC Certified

- ▶ Full HD 4 megapixel CMOS image sensor
- ▶ 1080P True H.264 AVC High Profile video compression
- ▶ H.264 and Motion JPEG multi-profile video streaming
- ▶ HDR function up to 100dB
- ▶ High efficiency IR LED, radiant distance up to 30m
- ▶ Day & Night (IR cut removable)
- ▶ ONVIF Profile S supported
- ▶ IP66 rain and dust resistant

## Dimensions
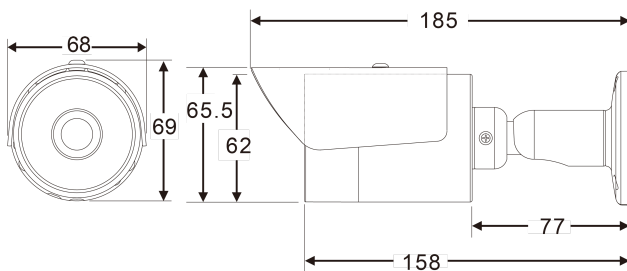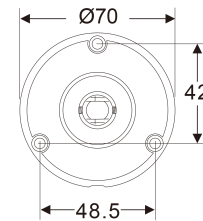68(W) × 69(H) × 185(D) mm approx.



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

## 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

IK10-certified housing designed to protect the camera from destructive behavior
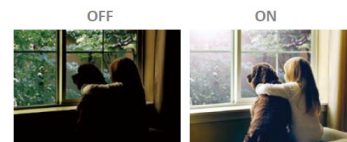
## Day and Night Operations via Removal of the IR-cut filter

MR8342 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

## 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

## 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

## 3D 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

## 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

## High Dynamic Range

An High Dynamic Range (HDR) 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. HDR can extend image visibility under high contrast lighting scenes and improve image quality

## Privacy Masking

Privacy Masking 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

## Video Security App

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

## 4MP Day & Night Fixed IR Vandal Resistant Bullet IP Camera

### Video Performance

| | |
|---|---|
| Model | MR8342 |
| Min. Illumination | Color : 0.3 Lux at F2.0 ; B/W : 0.06 Lux at F2.0 ; 0 Lux with IR LED ON |

### Power and Environment

| | |
|---|---|
| Starting Temperature | -10°C – +50°C (14°F – 122°F) |
| Operating Temperature | -40°C – +50°C (-40°F – 122°F) |
| Storage Temperature | -25°C – +60°C (-13°F – 140°F) |
| Humidity | 0% – 90% RH |
| Power Supply | DC12V ±10% / PoE (IEEE 802.3af compliant) |
| Power Consumption | DC12V, 5.2W / PoE, 6.6W |

### Lens / Night vision (infrared LED)

| | |
|---|---|
| Focal Length | 4mm |
| Iris | F2.0 |
| Iris Control | Fixed IRIS |
| Angle of View | 84° (H) 44° (V) 100° (D) |
| Peak Wavelength | 850nm |
| Beam Spread | 60° |
| Radiant Distance | 30M |

### Sensor

| | |
|---|---|
| Pick Up Element | 1/3" CMOS image sensor |
| Effective Pixels | 2688 (H) × 1520 (V) = 4,085,760 (Pixels) |

### Certifications

| | |
|---|---|
| CE | Yes, EMI CLASS B |
| FCC | Yes, EMI CLASS B |
| IP Rating | IP66 |
| Vandal Resistant Rating | IK10 |

### PC Requirements

| | |
|---|---|
| CPU | Intel® Core™ i3 or higher grade |
| OS | Windows 7 or above |
| RAM | 4GB or above, Dedicated Graphics Card |
| Web browser | Microsoft® Internet Explorer® 9 or above |

### Mechanical

| | |
|---|---|
| Dimension | 68(W) × 69(H) × 185(D) mm approx. |
| Weight | 450g approx. |
| Window | Ø58 Heat Resistant Glass |

### Video Streaming

| | |
|---|---|
| Video Compression | H.264 main and high profile, Motion JPEG |
| Video Streaming | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 3 configurable streams in H.264 and Motion JPEG, configurable frame rate and bandwidth |
| Number of streams | 3 |
| Video Bitrate | 128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported; Fixed bitrate; Smart H.264 |

### Network Security

| | |
|---|---|
| Encryption | Base64 HTTP encryption |
| Authentication | Digest HTTP authentication, RTSP authentication, DDNS via HTTPS |
| Address Filter | IP address filter |
| Access | Multiple user access levels with password protection |
| User accounts | 10 simultaneous users |
| Multi IP address | Yes |

### Video Resolutions (H x V)

| | |
|---|---|
| Resolution | 4MP(2688 × 1520), 3.6MP(2560 × 1440), 3MP(2304 × 1296), 2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576), VGA(640 × 480), CIF(352 × 240) |
| Maximum Frame Rate | H.264 / MJPEG : up to 20 fps @ 2688 × 1520 |

### Video Functions

| | |
|---|---|
| Scanning System | Progressive Scan |
| Infrared Cut Filter | Auto / Day (Color) / Night (Mono) / Schedule |
| White Balance | Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2 / Customized Adjustable red gain and blue gain |
| Electrical Shutter | 1/30(1/25)s – 1/20000s |
| Sense Up | Off / 1 Frame / 2 Frames |
| Sense Up+ | Yes |
| Auto Gain Control | 36 dB Variable Gain |
| 3D Noise Reduction | Off / 1 – 32 Selectable |
| 2D WDR | Off / Auto / x2 / x3 / x4 (by normal mode) |
| High Dynamic Range | Up to 100dB (in HDR mode, 2 shutter line interleave) |
| Privacy Masking | Off / On (4 zones) |
| Image Effects | Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Lens Distortion Correction |
| Lens distorsion correction (LDC) | Yes |

### Integration

| | |
|---|---|
| Mobile Application | Integrated to LILIN mobile app (LILIN Viewer), iPhone, iPad, Android support |
| Video Management | ONVIF Profile S, LILIN Navigator Enterprise 2.0, Third party VMS through LILIN HTTP API |
| SD Card Recording | Support (128GB) Micro SD/SDHC/SDXC card for circular recording (card is not included) |
| Maintenance | Firmware update via HTTP and IP Scan; Firmware available at website |
| IVS Basic 1.0 | Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting |
| Event Triggers | Motion / Tamper / Network lost detection |
| Event actions | FTP / SMTP / HTTP post / SD card / SAMBA / SNMP Trap / Push Service notification |
| Alarm weighted mode | Yes |
| Languages | English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese |

### Network

| | |
|---|---|
| Ethernet | 10/100 Mbps Base-T (Tx), RJ-45 |
| ePTZ & Digital Zoom | Yes, ROI (Region of Interest) |
| OSD | Text overlay for date, time, and camera name |
| CPU, Memory | Embedded SoC ARM Cortex-A9, 600MHz, 256MB DDR3, 32MB flash memory |
| OS | Embedded Linux 3.10 |
| Network Protocols | IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, MQTT, QoS, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP, Bonjour, SSL/TLS |
| Max number of online users | 10 simultaneous users |
| Video Display | LILIN Universal ActiveX & HTML5 |