M series | IP dome camera

MR312

HD 30M IR Range Fixed Lens Dome IP Camera

www.meritlilin.com

Easy to Install

Digital PTZ

SD card recording

Day/Night

Infrared

IP based

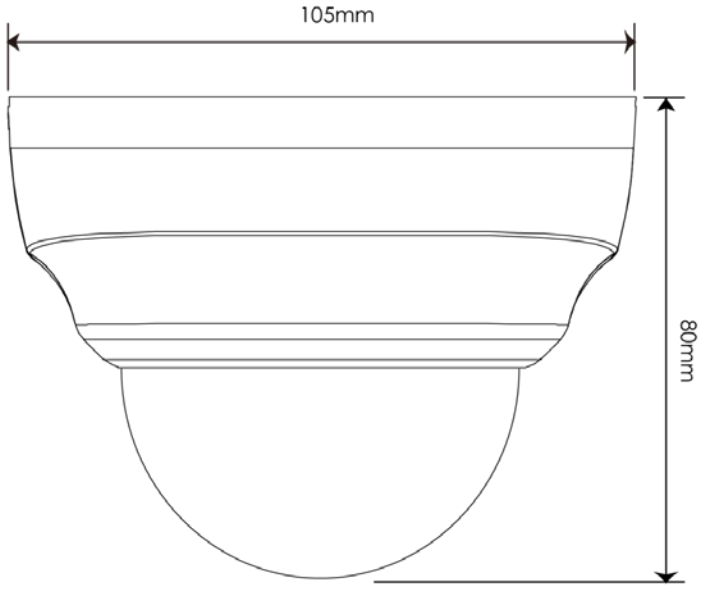
PoE

- IR IP Dome Camera
- IR cut filter for day/night operations
- Region of Interest (ROI)
- 30-meter infrared night vision
- 1080p resolution @ 30fps
- Digital PTZ (Pan-Tilt-Zoom) supported

MR312 HD 30M IR Range Fixed Lens Dome IP Camera in the M series is featuring 1080P at 30fps frame rate, built-in Sense up+ technology to deliver stunning video in low-light conditions. Utilising intelligent image signal processing, 2D WDR function, ePTZ, Region of Interest (ROI), AGC control, and 3D Noise Reduction, the combination successfully delivers the ultimate low-light image without motion blur. Support with PoE, privacy mask, White balance, and minimum illumination 0.15 Lux at F2.0 Low Light Mode

Dimensions: (unit: mm)

Ø105mm x 80mm

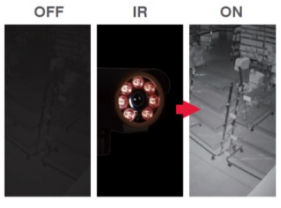


Product Features

MR312

Built-in IR Illumination

MR312 IP camera with infrared (IR) illumination where IR LEDs are built-in. Built-in with IR LED, the camera provides night vision up to 30 meters



ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. MR312 camera is ONVIF Profile S conformant

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

MR312 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

SD Cards in Sync with NAV Software

MR312 camera with built-in Micro SD/SDHC card slots can provide redundant video viewing and recording. You can synchronize an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)

Sense Up+

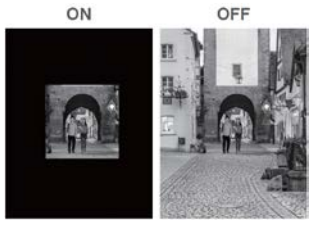
Deliver outstanding video outputs in poor light conditions without experiencing motion blur. You can see video clearly even during nighttime without sufficient lighting support

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

Region of Interest (ROI)

A Region of Interest (ROI) is a specified part of an image that is highlighted from a camera. This feature is great for highlighting areas such as doors or areas of access where an overall scene is still required



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

Motion Detection

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

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

Technical Specifications

MR312

HD 20M IR Range Fixed Lens Dome IP Camera (1080P @ 30fps)

Video performance	
Model#	MR312
Low Light Mode	Colour: 0.15 Lux at F2.0, B/W: 0.05 Lux at F2.0
With Infrared LED	0.0 lux
2D WDR	Off / Auto / x2 / x3 / x4

Power	
Power consumption	PoE, 8.5W
Power supply	Power over Ethernet (IEEE 802.3af compliant)

Sensor	
Sensor type	1/2.9" CMOS image sensor
Total sensor pixels	1920 (H) x 1080 (V) = 2,073,600 pixels

Certifications	
CE	Yes
FCC	Yes

Lens	
Focal length	2.9mm
Iris	F2.0
Angle of View	102°(H), 58°(V), 118°(D)

Night vision (infrared LED)	
Distance	30m
Peak wavelength	850nm
Beam spread	45° , 90°

Environmental	
Operating temperature	-25℃ to 50℃ (-13℉ to 122℉)

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

Mechanical	
Dimensions (W x H x D)	Ø105mm x 80mm
Weight	300g approx.

Integration	
Mobile application	Integrated to LILIN mobile app (LILINViewer) iPhone, iPad, Android support
Video management	ONVIF Profile S LILIN Navigator Enterprise 1.0 Third party VMS through LILIN HTTP API
SD card recording	Support Micro SD/SDHC card for circular recording (card is not included)
Web browser	Microsoft® Internet Explorer® 6.0 and later
Firmware	Firmware upgrade via HTTP
Alarm functions	Motion detection triggering recording into SD card, Image upload over FTP and E-mail by motion detection
Alarm event	FTP,SMTP, HTTP post, SD card, SAMBA
Alarm weighted mode	Yes

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

Video streaming	
Video compression	H.264 , Motion JPEG
Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast Multiple configurable streams in H.264 and M-JPEG, configurable frame rate and bandwidth
Bitrate	128Kbps～8Mbps Frame rate and bitrate controllable on-the-fly VBR / CBR / GOP supported
IP filter	Yes
RTSP Authentication	On / Off

Video resolution (H x V)	
1080p HD	1920 x 1080
720p HD	1280 x 720
D1	720 x 480
CIF	352 x 240
Maximum frame rate	H.264 : up to 30 fps @ 1920 x 1080 , 30fps @ 1280 x 720 , 30fps @ 720 x 480
	Motion JPEG : up to 15 fps @ 1920 x 1080 , 30 fps @ 720 x 480 , 30 fps @ 352 x 240

Video functions	
Day/Night (IR-cut filter)	Colour (Day), Monochrome (Night), Auto, Schedule
Scanning system	Progressive scan
Adjustable picture setting	Contrast, Brightness, Saturation
White balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2
Shutter	1/30(1/25)s to 1/8000s
Back light compensation	On / Off
3D noise reduction	Off / 1 to 32 selectable
Privacy masking	Off / On (4 independent areas)
Sense Up	Off / 1 frame / 2 frames / 3 frames / 7 frames
Sense Up+	Yes
Auto gain control	36 dB variable gain
Other functions	Sharpness, Image flip, Image mirror, Hue
D/N quality setting	Yes

Network	
Ethernet	10Mbps / 100Mbps Base-T, RJ-45
Connectivity	ONVIF Profile S
Users	8 simultaneous users
ePTZ & Digital zoom	Yes, ROI is supported
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
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
Multi IP address	Yes

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