

MR312 1080P Day & Night Fixed IR Dome IP Camera

www.meritlilin.com



- ▶ Full HD 2 megapixel CMOS image sensor
- ▶ True H.264 AVC/MPEG-4 part 10 real-time video compression
- ▶ H.264 and Motion JPEG triple video streaming
- ▶ 3D noise reduction (MCTF)
- ▶ 2D WDR function
- ▶ Digital PTZ supported
- ▶ Motion detection alarm function
- ▶ High efficiency IR LED, radiant distance up to 16m
- ▶ Day & Night (IR cut removable)
- ▶ 3-Axis construction
- ▶ ONVIF Profile S supported

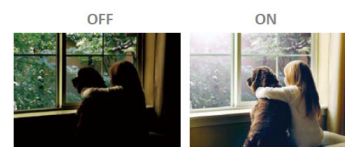
Day and Night Operations via Removal of the IR-cut filter

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



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



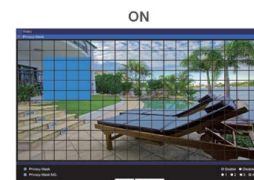
Wide Dynamic Range (WDR)

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



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



SD Cards in Sync with NAV Software

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



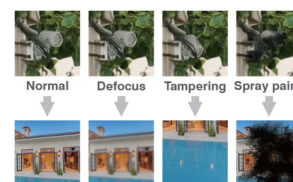
Motion Detection

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



1080P Day & Night Fixed IR Dome IP Camera	
Video Performance	
Model	MR312
Min. Illumination	Color : 0.1 Lux at F2.0 ; B/W : 0.05 Lux at F2.0 ; 0 Lux with IR LED ON
Power and Environment	
Starting Temperature	0°C – +50°C (32°F – 122°F)
Operating Temperature	-25°C – +50°C (-13°F – 122°F)
Storage Temperature	-25°C – +60°C (-13°F – 140°F)
Humidity	0% – 90% RH
Power Supply	PoE (IEEE 802.3af compliant)
Power Consumption	PoE, 8.5W
Lens / Night vision (infrared LED)	
Focal Length	2.9 mm
Iris	F2.0
Iris Control	DC-IRIS
Angle of View	102° (H) 58° (V) 118° (D)
Peak Wavelength	850nm
Beam Spread	60°
Radiant Distance	16M
Sensor	
Pick Up Element	1/2.9" CMOS image sensor
Effective Pixels	1920 (H) × 1080 (V) = 2,073,600 (Pixels)
Certifications	
CE	Yes, EMI CLASS A
FCC	Yes, EMI CLASS A
PC Requirements	
CPU	Intel® Core™ i3 or higher grade
OS	Windows 7 or above
RAM	1GB or above, Dedicated Graphics Card
Web browser	Microsoft® Internet Explorer® 9 or above
Mechanical	
Dimension	Ø105 × 80 mm
Weight	300g
Video Streaming	
Video Compression	H.264, Motion JPEG
Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Number of streams	3
Video Bitrate	128Kbps – 8Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported
Network Security	
Encryption	Base64 HTTP encryption
Access	Multiple user access levels with password protection
Users	8 simultaneous users

Video Resolutions (H x V)	
Resolution	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 : up to 30 fps @ 1920 × 1080 ; MJPEG : up to 15 fps @ 1920 × 1080
Video Functions	
Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule
White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2
Back Light Compensation	Off / On
Electrical Shutter	1/30(1/25)s – 1/8000s
Sense Up	Off / 1 Frame / 2 Frames / 3 Frames / 7 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
Privacy Masking	Off / On (4 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip
Integration	
Mobile Application	Integrated to LILIN mobile app (LILIN Pro) 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 Micro SD/SDHC card for circular recording (card is not included)
Maintenance	Firmware update via HTTP and IP Scan; Firmware available at website
Event Triggers	Motion / Tamper / Network lost detection
Event actions	FTP / SMTP / HTTP post / SD card / SAMBA / SNMP Trap / Push Service notification
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 ARM11, 528MHz, 256MB DDR2, 256MB flash memory
OS	Embedded Linux 2.6.32
Network 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
User accounts	8 simultaneous users
Video Display	LILIN Universal ActiveX & LILIN Java Applet