

L series | IP dome camera

LR2322X

1080P HD Vari-Focal Recessed Dome IR IP Camera

www.meritlilin.com



- ▶ Stylish recessed dome camera
- ▶ IR cut filter for day/night operations
- ▶ Surface/recessed mount conversion kit supplied
- ▶ 25-metre infrared night vision
- ▶ 1080p resolution

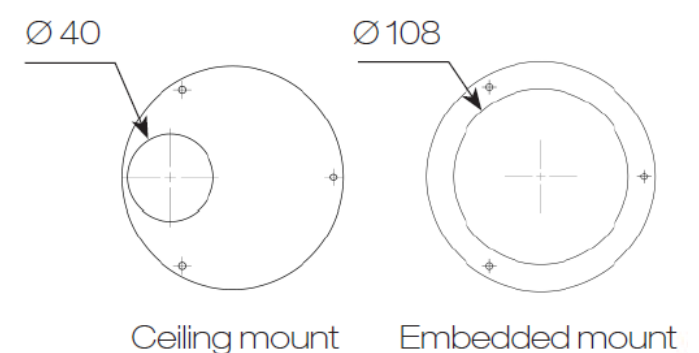
Dimensions: (unit: mm)

Ø 150 x 134



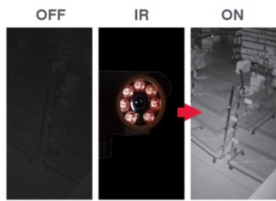
LR2322 features an embedded mount as well as ceiling mount installations in response to a diverse array of environments for total situational awareness. The camera has built-in IR illuminator providing clear vision at night. The visible part of the camera housing extends only 7mm in below the ceiling, giving the housing a low-profile look. When motion triggers cameras, you will receive email alerts at the first sign of trouble. Support with PoE, privacy mask, 3D noise reduction, 2D WDR function, and minimum illumination 0.05 lux at F1.5 low light mode. LR2322 recessed dome camera is an ideal solution for public environments where discreet surveillance is needed

Diagram of mounting holes: unit in mm



Built-in IR Illumination

LR2322X IP camera with infrared (IR) illumination where IR LEDs are built-in. Built-in with IR LED, the camera provides night vision up to 25 metres



Video Security App

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



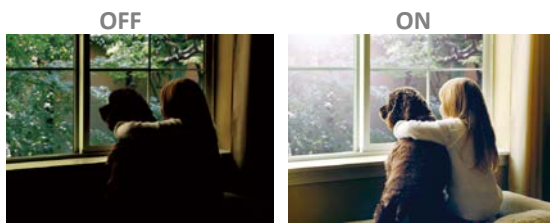
SD Cards in Sync with NAV Software

LR2322X 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)



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



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



Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders



Motion Detection

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



ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. LR2322X camera is ONVIF Profile S conformant



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

LR2322X 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



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



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



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



Audio Detection

With Audio Detection technology, an alarm is triggered based on ambient sound conditions as the threshold



1080P HD Vari-Focal Recessed Dome IR IP Camera

Video performance	
Model#	LR2322EX3.6
Low Light Mode (Colour)	0.05 Lux at F1.4
With Infrared	0.0 lux
2D WDR	Off / Auto / x2 / x3 / x4

Power	
Power consumption	DC12V, 9W / PoE, 10.2W
PoE	IEEE 802.3af
Power supply	DC12V ±10%
	Power over Ethernet (IEEE 802.3af compliant)

Sensor	
Sensor type	1/2.7" CMOS image sensor
Total sensor pixels	1920 (H) x 1080 (V) = 2,073,600 pixels

Lens		
Focal length		2.8 mm - 12 mm
Iris		F1.4
Angle of View	H	91.2 ° - 25.5 °
	V	59.4 ° - 22.4 °
	D	99 ° - 37.3 °

Night vision (infrared LED)	
Distance	25m
Peak wavelength	850nm, high efficiency array
Beam spread	30 °

Environmental	
Operating temperature	-25°C - +50°C (-13°F -122°F)

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	Ø 150 x 134mm
Weight	640g approx.

Input / output	
Audio input / output	Mono, 1.4 Vp-p, 50 KΩ, 3.5mm phone jack
Alarm input / output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA)
Live video output	CVBS 1.0Vp-p, 75 ohm, RCA connector

Certifications	
CE	Yes, EMI CLASS A
FCC	Yes, EMI CLASS A

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 address 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 15 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
Chip size	5.856mm (H) x 3.276mm (V)
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	Four 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

Integration	
Mobile application	Integrated to LILIN mobile app (LILIN Pro) iPhone, iPad, Android support
Video management	ONVIF Profile S LILIN NAV 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 event triggers	audio / motion / alarm detection triggering recording into SD card Image upload over FTP and E-mail by audio / motion detection
Alarm event actions	FTP, SMTP, HTTP post, SD card, SAMBA
Alarm weighted mode	Yes

Network	
Ethernet	10Mbps / 100Mbps Base-T, RJ-45
Connectivity	ONVIF Profile S
Users	8 simultaneous users
Digital zoom	Yes
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
Audio	Two-way Audio, G.711 u-law / PCM, External Microphone Required
Protocols	IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SNMP, SIP,
Multi IP address	Yes

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