

L series | IP dome camera

# LR2322X

## 1080P HD Vari-Focal Recessed Dome IR IP Camera

www.meritlilin.com







Onvif S













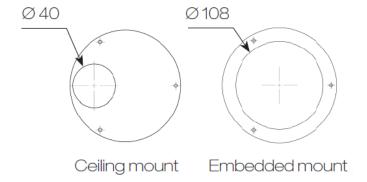
- Stylish recessed dome camera
- IR cut filter for day/night operations
- Surface/recessed mount conversion kit supplied
- 25-metre infrared night vision
- ▶ 1080p resolution

**Dimensions: (unit: mm)** Ø 150 x 134



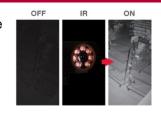
LR2322 features an embedded mount as well as ceiling mount installations in response to a diverse array of environments for total situational awareness. The camera has built-in IR illuminator providing clear vision at night. The visible part of the camera housing extends only 7mm in below the ceiling, 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



#### **ONVIF-compliant**

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

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



#### 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)

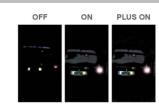






#### Sense Up+

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





#### **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



### **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



#### **Alarm Detection**

Alarm Detection is designed to provide the electronic detection of intruders



#### **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



#### **Motion Detection**

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



#### **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 / 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		$2.8~\text{mm}~\sim~12~\text{mm}$
Iris		F1.4
Angle of	Н	91.2° ~ 25.5°
View	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 K $\Omega$ , 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	Emission
	EN 55022:2010 Class A
	IEC 61000-3-2:2005+A1:+A2:2009
	IEC 61000-3-3:2008
FCC	Emission
	FCC Part 15: Subpart B (10-1-10 Edition) Class A
	CISPR 22: 2008 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 ~ 5Mbps 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 H.264 : up to 15 fps @ 1920 x 1080 , 30fps @
Maximum frame rate	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 /
01	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 Sense Up	Four independent areas  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 (LILINViewer) 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 functions	audio / motion / alarm detection triggering recording into SD card Image upload over FTP and E-mail by audio /
	motion detection
Alarm event Alarm weighted mode	FTP,SMTP, HTTP post, SD card, SAMBA 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
2-way audio Protocols	G.711 / PCM  IP, 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
Network security	
User accounts	10 user accounts available
	Multiple user access levels with password protection
Access Encryption	Multiple user access levels with password protection  Base 64 HTTP encryption