

ZG1232EX3 3MP Day & Night Vari-Focal Box IP Camera



- ▶ Full HD 3.27 megapixel CMOS image sensor
- ▶ True H.264 AVC/MPEG-4 part 10 real-time video compression
- ▶ H.264 and Motion JPEG multi-profile video streaming
- ▶ Auto Back Focus function
- ▶ 3D noise reduction (MCTF)
- ▶ 2D WDR function
- ▶ Digital PTZ supported
- ▶ Face / Tampering / Audio / Motion detection alarm function
- ▶ Day & Night (IR cut removable)
- ▶ Built-in highly sensitive microphone
- ▶ 2-way audio supported
- ▶ Digital I/O : 1 in, 1 out
- ▶ ONVIF Profile S supported
- ▶ RS-485 supported

Dimensions

70(W) × 71(H) × 156(D) mm

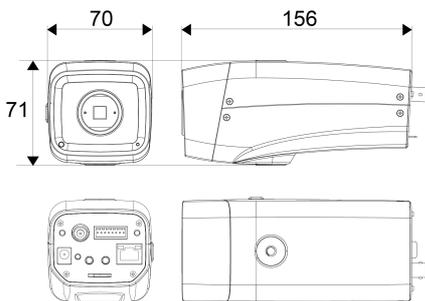
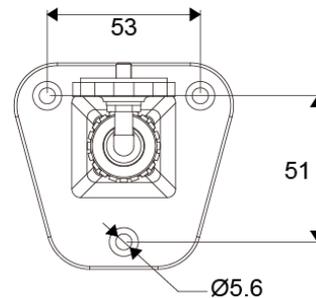


Diagram of mounting holes:(unit in mm)



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

ZG1232EX3 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



Auto Focus feature

Use the camera software to trigger the auto focus function at any time during installation or after. Auto Focus feature to automatically focus the camera from a distant location, which eases the process on installation and helps you effectively position the camera at the right focus angle in a matter of seconds



Video Security App

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



SD Cards in Sync with NAV Software

ZG1232EX3 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)



Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders



3MP Day & Night Vari-Focal Box IP Camera

Video Performance

Model	ZG1232EX3
Min. Illumination	Color : 0.1 Lux at F1.3 ; BW : 0.01 Lux at F1.3

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	DC12V ±10% / PoE (IEEE 802.3af compliant)
Power Consumption	DC12V, 7W / PoE, 8W

Lens / Night vision (infrared LED)

Focal Length	3.1 – 9 mm (CS Mount)
Iris	F1.3
Iris Control	DC-IRIS
Angle of View	99.4° (W) – 34.8° (T) (H) 73.1° (W) – 26.1° (T) (V) 127.7° (W) – 43.5° (T) (D)

Sensor

Pick Up Element	1/2.8" CMOS image sensor
Effective Pixels	2096 (H) x 1561 (V) = 3,271,856 (Pixels)
Chip Size	7.96mm (H) x 7.61mm (V)

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	70(W) x 71(H) x 156(D) mm
Weight	450g

Input / Output

Audio Input / Output	Mono, 1.4 Vp-p, 50 KΩ, 3.5mm phone jack
Audio	Two-way Audio, G.711 u-law / PCM, Built-in Microphone
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, BNC connector

Video Streaming

Video Compression	H.264, Motion JPEG
Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Number of streams	4
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
User accounts	8 simultaneous users

Video Resolutions (H x V)

Resolution	3MP(2048 x 1536), 2MP(1920 x 1080), 1MP(1280 x 720), D1(720 x 480, 720 x 576), CIF(352 x 240)
Maximum Frame Rate	H.264 : up to 15 fps @ 2048 x 1536 ; MJPEG : up to 15 fps @ 1920 x 1080

Video Functions

Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Day (Color) / Night (Mono) / Schedule / External control
White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2
Back Light Compensation	Off / On
Electrical Shutter	1/30s – 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
Auto Focus	One Push (Auto Back Focus)

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 Micro SD/SDHC card for circular recording (card is not included)
Maintenance	Firmware update via HTTP and IP Scan; Firmware available at website
IVS Basic 1.0	Face Detection, Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
Event Triggers	Motion / Tamper / Audio / Alarm / Face detection
Control Interface	RS-485 , Half-Duplex , support MLP2 , Pelco D/P protocols

Network

Ethernet	10/100 Mbps Base-T, 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
Max number of online users	8 simultaneous users
Video Display	LILIN Universal ActiveX & LILIN Java Applet

