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



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### Features

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- 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

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### Description

Auto Focus IP camera ZG1232X offers Auto Back Focus function, with the built-in IEEE 802.3af compliant PoE and only ~150mm diameter in size, ZG1232X Auto Focus IP camera is able to meet a wide variety of needs for indoor and outdoor surveillance. Featuring Full HD resolution with superb image quality up to 30FPS frame rate, are equipped with a removable IR-cut filter, built-in Intelligent Video Surveillance features such as face, tampering, audio, motion detection alarm function, 3D Noise Reduction, WDR enhancement for un-paralleled visibility in high contrast environments, Automatic Gain Control (AGC) form of amplification to produce usable images, and securing high video quality in providing accurate identification around the clock.

## Specifications

Model	ZG1232EX3
Min. illumination/Low Light Mode (Colour)	Color : 0.1 Lux at F1.3 ; BW : 0.01 Lux at F1.3
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)
Operating humidity	0% – 90% RH
Power Supply	DC12V ±10% / PoE (IEEE 802.3af compliant)
Power Consumption	DC12V, 7W / PoE, 8W
Lens	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)
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)
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
Dimensions	70(W) × 71(H) × 156(D) mm
Weight	450g

Audio Input / Output	Mono, 1.4 Vp-p, 50 K $\Omega$ , 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 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
Encryption	Base64 HTTP encryption
Access	Multiple user access levels with password protection
User accounts	8 simultaneous users
Resolution	3MP(2048 $\times$ 1536), 2MP(1920 $\times$ 1080), 1MP(1280 $\times$ 720), D1(720 $\times$ 480, 720 $\times$ 576), CIF(352 $\times$ 240)
Frame Rates	H.264 : up to 15 fps @ 2048 $\times$ 1536 ; MJPEG : up to 15 fps @ 1920 $\times$ 1080
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 (BLC)	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	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip
Mobile phone	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)
Firmware	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
Alarm event triggers	Motion / Tamper / Audio / Alarm / Face detection
Control interface	RS-485 , Half-Duplex , support MLP2 , Pelco D/P protocols
Network Interface/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
Network 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
Max number of online users	8 simultaneous users
Video Display	LILIN Universal ActiveX & LILIN Java Applet
CE	Yes, EMI CLASS A
FCC	Yes, EMI CLASS A

