

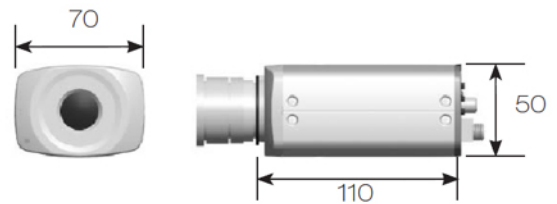
MG1022

Day & Night 1080P HD IP CAMERA



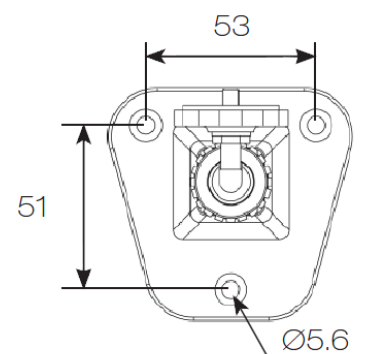
- ▶ Full bodied 2MP IP camera
- ▶ Wide Dynamic Range
- ▶ 1080p resolution
- ▶ IR cut filter for day/night operations
- ▶ Easy to install

Dimensions (unit in mm):
70 x 50 x 110 (W x H x D)



The MG1022 incorporates Sense up+, a unique technology that successfully delivers stunning video in low-light conditions. Utilizing intelligent image signal processing, AGC control, and 3D Noise Reduction, this model successfully delivers the ultimate low-light image without motion blur. Measuring less than 110mm in length, this latest addition to the series provides an internal solution for multiple applications.

Diagram of mounting holes (unit in mm):



Wide Dynamic Range

A Wide Dynamic Range image is produced by interleaving two shutter line to accommodate details of both the darkest and brightest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality.



Back Light Compensation

Back Light Compensation (BLC) adjusts the exposure of the entire image to properly expose the subject of interest. Whether the subject is moving toward left, right, up, down, or any direction on the screen, BLC will provide the perfect exposure for the subject in front of a strong back light.



Sense Up+

Sense up+ is able to deliver outstanding video outputs in poor light conditions without experiencing motion blur. With this technology, you can see video more clearly during nighttime when sufficient lighting is lacking.



Privacy Masking

Privacy Masking can protect personal privacy by concealing specific 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 iewer** 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

MG1022 was designed using a mechanical IR cut filter to increase IR sensitivity and improve night time images. The removable IR-cut filter allows day and night operations and can provide outstanding vision even in low lux conditions.



ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. MG1022 complies with ONVIF Profile S.



Motion Detection

If properly set up, any motion in front of the camera will be detected and saved as an event. Motion in the selected area will provoke an alert.



Tamper Detection

This camera automatically detects tampering or failure. Also, an action can be taken when the lens or field of view is partially or completely blocked.



Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders.



SD Cards in Sync with NAV Software

The camera is designed with Micro SD/SDHC/SDXC card slots to provide video playback and recording saving. You can even synchronize an SD card with LILIN VMS (Video Management Software) – Navigator (NAV).



Two-way Audio Support

With 2-way audio capability, you can broadcast through the camera's speaker, and people receive the message may respond with the camera's microphone for communication.



HD IP Camera (1080p @ 30 FPS)

Video performance	
Model#	MG1022
Min. Illumination	0.05 Lux at F1.2 (Color) 0.01 Lux at F1.2 (B/W)

Power	
Power consumption	DC12V, 3.2W / PoE, 4.4W
PoE	IEEE 802.3af
Power supply	DC12V ±10% Power over Ethernet (IEEE 802.3af compliant)

Sensor	
Sensor type	1/2.8" CMOS image sensor
Total sensor pixels	1920 (H) x 1080 (V) = 2,073,600 pixels

Certifications	
CE	Yes
FCC	Yes

PC requirement	
CPU	Intel i3 or above
OS	Windows 7, Windows 8, Windows 10
RAM	4GB or above, dedicated graphics card

Mechanical	
Dimensions	70mm(W) x 50mm(H)x 110mm (D)
Weight	380g approx.

Input / output	
Live video output	CVBS 1.0Vp-p, 75 ohm, BNC connector
Audio input / output	Mono, 1.98Vp-p, 3.5mm phone jack
Alarm input / output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA), Terminal Block

Video streaming	
Video compression	H.264 High/Main Profile, Motion JPEG
Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4 configurable streams in H.264 and Motion JPEG, configurable frame rate and bandwidth
Bitrate	128Kbps – 12Mbps Frame rate and bit rate controllable on-the-fly VBR / CBR / GOP supported Fixed bitrate

Network security	
User accounts	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption / Digest
IP address filter	Yes
RTSP Authentication	On / Off

Integration	
Mobile application	Supports LILIN mobile app (LILIN Viewer) in both iOS and Android versions
Video management	ONVIF Profile S LILIN Navigator Enterprise 1.0 and 2.0 Third party VMS through LILIN HTTP API
SD card recording	Support Micro SD/SDHC/SDXC (up to 128GB) card for circular recording (card is not included)
Web browser	Microsoft® Internet Explorer® 9.0 and later
Firmware	Firmware upgrade via HTTP, and IP Scan
Alarm event triggers	Motion/Tamper/Audio/Alarm/Network lost detection
Alarm event actions	FTP, SMTP, HTTP post, SD card, SAMBA
Intelligent Video Surveillance	Advanced motion detection, Tripwire detection, Semaphore + Tripwire detection, Object counting

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

Video resolutions (H x V)	
1080p	1920 x 1080
1280x960	1280 x 960
720P	1280 x 720
D1	720 x 480, 720 x 576
VGA	640 x 480
CIF	352 X 240
Maximum frame rate	H.264: up to 30 FPS @ 1920 x 1080, MJPEG: up to 30 FPS @ 1920 x 1080
Alarm weighted mode	Yes

Video functions	
Day/Night (IR-cut filter)	Color (Day), Monochrome (Night), Auto, Schedule, External control
Scanning system	Progressive scan
Adjustable picture setting	Contrast, Brightness, Saturation
White balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2
Shutter	1/30(1/25) s to 1/30000s
Back light compensation	On / Off
2D WDR	Off / Auto / x2 / x3 / x4 (in normal mode)
High dynamic range	Up to 100dB (in HDR mode, 2 shutter line interleave)
3D noise reduction	Off / 1 to 32 selectable
Privacy masking	Off / On (4 independent areas)
Sense Up	Off / 1 frame / 2 frames
Sense Up+	Yes
Auto gain control	42 dB variable gain
D/N quality setting	Yes
Other functions	Sharpness, Hue, Image flip, Image mirror

Network	
Ethernet	10Base-T / 100Base-TX, RJ-45
Connectivity	ONVIF Profile S / LILIN API (CGI)
Users	10 simultaneous users
OSD	Text over date, time, and camera name
CPU, Memory	Embedded SoC ARM Cortex-A9, 600MHz, 256MB DDR3, 256MB flash memory
Video display	LILIN Universal ActiveX, LILIN Java Applet & HTML5
OS	Embedded Linux 3.10
2-way audio supported	G.711 / PCM (Built-in microphone)
Protocols	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, SIP, MQTT, QoS, SNMP, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP, Bonjour
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese
Multi IP address	Yes

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