LGNXDO12IRHEM

12.MP Fisheye Network Camera



NDAA Compliant

12MP

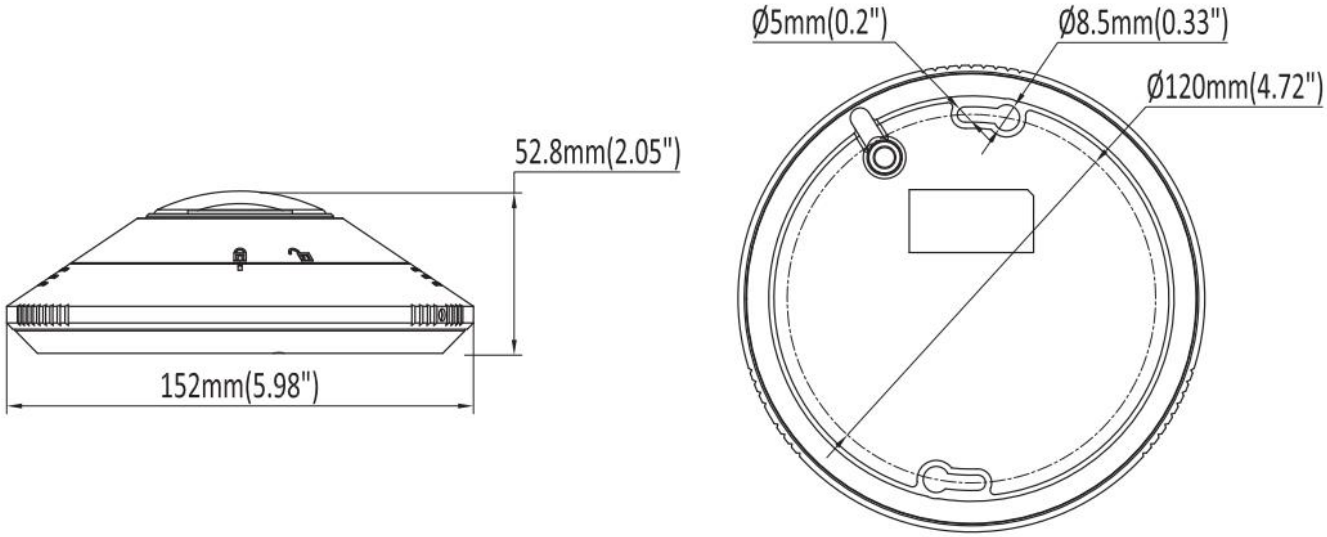
IP67

Built-in Mic & Speaker

In Short

This 12MP fisheye camera delivers high-resolution 360-degree video from a single vantage point with multiple dewarp display modes for flexible monitoring. It includes H.265+ compression, audio and alarm interface support, 15 m IR illumination, smart events, people counting, heat map, onboard storage up to 512GB, RS-485, and IP66-rated protection.

Dimensions



*Design and specifications are subject to change without notice - Version 2026-05-22

TECHNICAL SPECIFICATIONS

Ordering Information	
Part Number	LGNXDO12IRHEM
Camera	
Image Sensor	1/1.6” 12 MP Progressive Scan CMOS
Minimum Illumination	Colour: 0.03 Lux @ F2.0, AGC ON; 0 Lux with IR
Illumination Distance	15 m IR light
Strobe Light	N/A
Smart IR	Smart IR supported
Pan / Tilt / Rotation	N/A
Shutter	Auto / Manual, 1/3 s to 1/100000 s
Day/Night	IR cut filter
WDR	DWDR
Digital Noise Reduction	3D DNR
Lens	
Focal Length	2.3 mm
Aperture	F2.0
Field of View	Horizontal: 180°; Vertical: 180°
Mount	M12
Compression	
Video Compression	H.265+ / H.265 / H.264+ / H.264 / MJPEG
H.265 Codec Profile	Main Profile
H.264 Codec Profile	Base / Main / High Profile
Video Bit Rate	11 Kbps to 16 Mbps
Multiple Streams	N/A
Audio Compression	G.711A, G.711U
Audio Bit Rate	64 Kbps
Image	
Maximum Resolution	3504 x 3504
Main Stream	
Fisheye: 3504 x 3504, 3024 x 3024, 2560 x 2560, 2048 x 2048 | ***180° Panoramic:*** 3072 x 2304, 2048 x 1536 | ***180° Dual Panorama:*** 3072 x 1152 | ***Panoramic:*** 3072 x 2304, 2048 x 1536 | ***4 PTZ:*** camera 01 / camera 02 / camera 03 / camera 04 at 1600 x 1200 | ***Fisheye + 3PTZ:*** camera 01 at 2560 x 2560, 2048 x 2048, 1280 x 1280, camera 02 / camera 03 / camera 04 at 1600 x 1200 | ***4PTZ Fusion:*** 3200 x 2400, 2048 x 1536	

*Design and specifications are subject to change without notice

TECHNICAL SPECIFICATIONS

Sub Stream
Fisheye: 720 x 720, 480 x 480 | ***180° Panoramic:*** 640 x 480, 320 x 240 | ***180° Dual Panorama:*** 640 x 480, 320 x 240 | ***Panoramic:*** 640 x 360, 320 x 240 | ***4 PTZ:*** camera 01 / camera 02 / camera 03 / camera 04 at 640 x 480, 320 x 240 | ***Fisheye + 3PTZ:*** camera 01 at 720 x 720, camera 02 / camera 03 / camera 04 at 640 x 480, 320 x 240
Third Steam
N/A

Image Settings	
Parameters	Brightness / Contrast / Saturation / Hue / Sharpness
BLC	Backlight compensation supported
HLC	Highlight compensation supported
ROI	N/A

Smart Features	
Basic Events	Motion detection, video tampering
Smart Events	Line crossing, area intrusion, region entrance, region exiting, unattended object, object missing, blurred detection, scene change detection, audio exception detection

Network	
Storage	NAS (NFS, SMB/CIFS), ANR
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, IGMP, UPnP, SMTP, UPnP-TM, P2P
Compatibility	ONVIF Profile S, Profile G, Profile T; SDK
Security	Password protection, complex password support, HTTPS encryption, IP address filtering, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE, and digest authentication for ONVIF
Users	Up to 40 users
Browsers	Plug-in required live view: IE 10, IE 11; Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari; Local service: Chrome 57.0+, Firefox 52.0+
Mobile	iOS, Android

Interface	
Network	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
On-board Storage	Up to 512GB
Microphone	Built-in microphone
Speaker	Built-in Speaker
Audio Input / Output	1 input / 1 output
Alarm Input / Output	2 inputs / 2 outputs
Reset Button	Reset button supported; RS-485 supported

*Design and specifications are subject to change without notice

TECHNICAL SPECIFICATIONS

General	
Operating Conditions	-40°C to 60°C (-40°F to 140°F)
Humidity	95% or less, non-condensing
Power Supply	12V DC ± 25%
PoE	PoE IEEE 802.3af
Power Consumption	12.5 W
Protection	IP66
Material	Metal
Dimensions	Ø152 x 53 mm (Ø5.98” x 2.08”)
Weight	724 g (1.6 lb)

*Design and specifications are subject to change without notice

TECHNICAL SPECIFICATIONS

Accessories



XLGNXLB12D - Junction box, 170 mm x 153.6 mm x 70 mm



XLGNXLB07C(B) - Wall mount, Ø136 x 120 x 208 mm



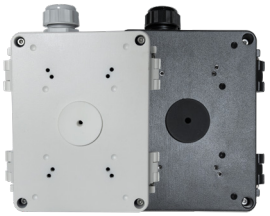
XLGNXPM03 - Pole mount, Ø170 x 135.8 x 43.7 mm



XLGNXCM700 - Pendant mount, Ø116 x 734.5 mm



XLGNXPC1B5 - Corner Mounting Bracket, 194 x 183 x 104 mm



XLGNXJB17(B) - Junction box with doors and hinges for XLGNXLB-07C(B) and XLGNXLB14C(B), 170 x 153.6 x 70 mm

*Design and specifications are subject to change without notice