Summary

The Luma X20 Fisheye Camera is an excellent solution for any surveillance project requiring wide area coverage and a broad viewing angle. Featuring an impressive 12MP image sensor, this camera is ideal for capturing even the smallest details in picture-perfect quality.
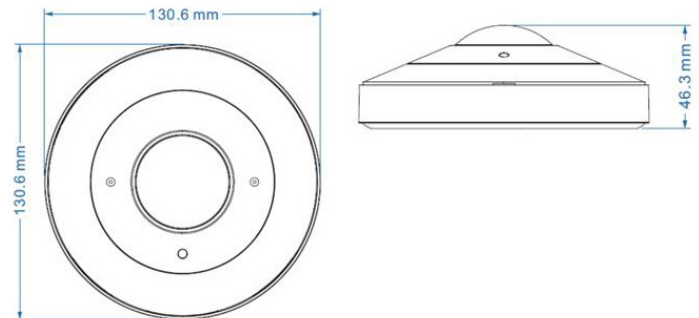
When paired with a Luma X20 NVR, the camera supports up to five independent video streams at different resolutions and aspect ratios, making it a great addition to any installation needing to cover multiple key areas with a single device.

Dimensions

Unit: mm

Specifications

Product	LUM-1220-IP-FE-W
Image Sensor	12MP 1/1.7" Progressive Scan CMOS
Maximum Resolution	4000 x 3000
Frame Rate	Max 15FPS
Shutter Speed	1/3s ~ 1/100000s
Lens	1.65mm @ F2.0
Minimum Illumination	0.01 lux@F2.0, AGC ON; 0 lux with IR
Aperture	F2.0
Field of View	Horizontal (wall mounting): 180° Horizontal (ceiling mounting): 360°
Focus	Fixed
IR Range	IR range: 10 - 20m (32 - 65ft)
Smart IR	Yes
WDR	Digital WDR
Backlight Compensation	Yes
Highlight Compensation	Yes
DNR	3D DNR
S/N Ratio	≥50dB
Smart Alarm	Motion detection, sensor alarm, SD card error, SD card full, IP address conflict, cable disconnection
Recording Trigger	Ceiling mounting: (Human) region intrusion/region entrance/region exiting/line crossing/target counting by line, crowd density detection, heat map Wall mounting or desktop: Region intrusion/region entrance/region exiting/line crossing/target counting by line (human/motor vehicle/non-motor vehicle classification), crowd density detection
AI Event	Human, Vehicle & Non-motor Vehicle Detection
Motion Detection	Yes
Image Snapshot	Yes
Streams	Main stream: H.265+ / H.265/ H.264+ / H.264 Sub stream: H.265+ / H.265/ H.264+ / H.264 MJPEG
Main Stream	Fisheye view: 3000×3000/2160×2160/1080×1080 (50Hz: 1-15fps; 60Hz:1-15fps) Panoramic view: 4000×3000/3840×2160/3200×1800/2560×1440 (50Hz:1-15fps; 60Hz: 1-15fps) 3PTZ view: (1280×720) * 3 (50Hz:1-15fps; 60Hz: 1-15fps)

Product	LUM-1220-IP-FE-W
Sub Stream	Fisheye view: 640x640 (50Hz: 1-15fps; 60Hz:1-15fps) Panoramic view: 640x480 (50Hz:1-15fps; 60Hz: 1-15fps)
Supported Resolutions	4000×3000, 3840×2160, 3000×3000, 3200×1800, 2160×2160, 2560×1440, 1280×720, 1080×1080, 640×640, 640×480
Bit Rate	128Kbps - 16Mbps (VBR / CBR)
Audio Compression	G711A / U
Microphone	2CH built-in microphone
SD Card Support	Built-in micro SD card slot; up to 256GB
Speaker	No
Audio Input/Output Connectors	1CH audio input; 1CH audio output
Alarm Contact Inputs/Outputs	No
CVBS Output	CVBS output (BNC × 1)
Reset Button	Yes
Network / Ethernet Desc.	RJ-45 10M/100M self-adaptive Ethernet port
Power over Ethernet	IEEE802.3af PoE
Network Protocol	UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTCP, RTMP, SNMP, PPPoE, DDNS, 802.1x, SMTP, FTP, UPnP, HTTPs, HTTP, QoS, P2P, HTTP POST
Interface Protocol	ONVIF
Browser Support	Chrome, Firefox, Safari, Edge, IE Mode in Edge
Power Consumption	DC12V/PoE, < 10.5W
Outdoor Rating	IP67
Protection Rating	IK10
Certifications	ETL Listed, CE, FCC, UKCA, NDAA Compliant, ONVIF Conformance
Operating Temperature	-22°F - 140°F (-30°C - 60°C)
Operating Humidity	95% or less (non condensing)
Storage Temperature	-30°C to 65°C (-22°F to 149°F)
Dimensions (W x H x D)	Φ 5.14 × 1.82in (Φ 130.6 × 46.3mm)
Weight	1.13 lbs (0.51 Kg)