(Radar) AI LPR 4X/12X Pro Bullet Plus Network Camera

Milesight

3D Radar

AF Lens

3D Radar | | AI | H.265⁺ HEVC | Starlight | Super WDR

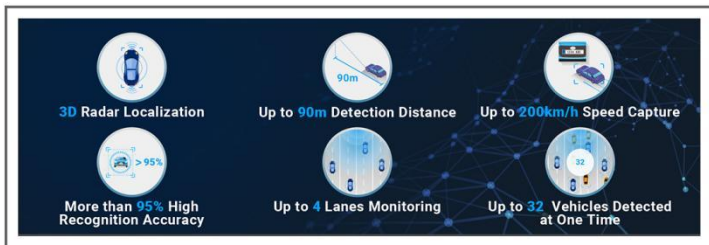IR | 3-Axis | SDXC | GQST Onvif | PoE | Weather-proof

DATASHEET

KEY FEATURES

▶ Smart IR II (Combining the High Beam and Low Beam to adjust IR intensity to fit different lighting conditions.)

▶ 0.002Lux Starlight (Deliver high detailed color images even in low light environment reaching 0.002Lux.)

▶ 1/2" Image Sensor (Top-notch STARVIS sensor to achieve excellent video quality even in low-light environments reaching 0.001Lux.)

▶ HLC (High Light Compensation. Improving image visibility under strong light sources.)

▶ Defog (Defog technology. Restoring clear images in hazy and foggy weather.)

▶ Integrated Cable Management (Combining the power interface, PoE port, and other interfaces in the base neatly.)

▶ 256G (Supporting ultra-large external microSD/SDHC/SDXC card storage up to 256G.)

▶ Smart Stream (Bandwidth, storage and bit rate are saved with Smart Stream On, eg, H.265⁺ saves 70%~80% bandwidth that of H.264.)

Advanced 3D Radar Technology (Optional)

The 3D radar can locate the vehicle position and direction with high accuracy. Verified by AI-powered LPR algorithm, the 3D radar technology can precisely identify detection distance, speed capture and flow control, greatly optimizing traffic monitoring, and ensuring the safety of public transport.
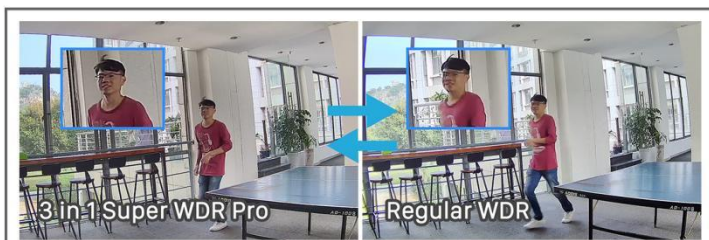
AI-powered LPR Algorithm

Based on AI algorithm, the LPR function provides value-added data via a pre-trained deep learning model, which can not only recognize vehicle plates in real time with high accuracy, but also identify more vehicle features, like vehicle type, color, etc., generating powerful security and traffic insights.

3D Radar Localization | Up to 90m Detection Distance | Up to 200km/h Speed Capture | More than 95% High Recognition Accuracy | Up to 4 Lanes Monitoring | Up to 32 Vehicles Detected at One Time

- Color: White
- Vehicle type: Car
- Plate: TL001H
- Speed: 80km/h
- Direction: Approch
- Count: +1

3 in 1 Super WDR Pro - 140dB

The upgraded 3 in 1 Super WDR Pro outputs three frames each line, which is able to bring more details especially moving subjects. What's more, it greatly improves image quality for reducing smear and noisy points. The ratio that the brightest light signal values divided by the darkest light signal values is up to 140dB.

100fps

With the industry leading frame rate reaching 100fps, the cameras can easily catch images with no latency despite of the high-speed movement, which is the best choice for the demanding requirements especially for intelligent cameras.

3 in 1 Super WDR Pro | Regular WDR

30fps@1080P | 100fps@1080P

(Radar) AI LPR 4X/12X Pro Bullet Plus Network Camera

	Model	MS-C2866-X4TL(V)PC (2MP)	MS-C2966-X12R(T)L(V)PC (2MP)
Camera	Image Sensor	1/2" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on
	WDR	140dB Super WDR Pro	140dB Super WDR (Super WDR Pro is optional for T Series)
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 180m	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
Lens	Lens	8~32mm, 4X Optical Zoom	5.3~64mm, 12X Optical Zoom
	Field of View	H44°~H13°/D51°~D15°/V25°~V7°	H61°~H5°/D69°~D5°/V36°~V2°
	Mount	Φ14	
	Focus Control	Auto/Manual	
	Aperture	F1.6~F1.7	F1.6~F2.8
	Iris Control	Auto	
LPR	Max. Vehicle Speed	200km/h	
	Recognition Accuracy	>95%	
	Coverage	Support simultaneous detection of 4 regions	
	White/Black List	Up to 1000 records inside the camera	
	Smart Traffic Detection	License Plate Recognition, Plate Type Recognition, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition, Vehicle Direction Detection, Speed Detection, Traffic Flow Detection	
Radar (Optional)	Working Frequency	60GHz, 61~62GHz	
	Capture Rate	>99% (Traffic jam >95%)	
	Lane Coverage	1~4 Lanes (Recognition ≥95% individually)	
	Tracking Target	Up to 32	
	Speed Detection Range	±5km/h~±200km/h	
	Speed Detection Accuracy	±0.36km/h	
	Detection Distance	Up to 90m	
	Distance Detection Accuracy	±0.4m	
	Angle Measurement Accuracy	±0.5°	
	Installation Height	2~7m	

Video	Max.Image Resolution	1920x1080
	Primary Stream	60Hz: **100fps@(1920x1080)(Optional for T Series),** 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: **100fps@(1920x1080)(Optional for T Series),** 50fps@(1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)
	Privacy Masking	Up to 28 areas(24 mask areas and 4 mosaic areas)
	ROI	Up to 8 areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1
	Alarm I/O	1/1
Network	Network Storage	NAS(Support NFS, SMB/CIFS), ANR
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL
Audio	Audio Compression	G.711/AAC/G.722/G.726
	Audio Sampling Rate	8/16/32/44.1/48KHz
	Audio Bit Rate	16~256kbps
	Two-way Audio	Support
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256G
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	Event Trigger	Black/White List, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc
	System Compatibility	ONVIF Profile G & Q & S & T, API
General	Working Temperature	-40℃~60℃
	Working Humidity	5~90%(Non-condensing)
	Power Supply	PoE (802.3at) / DC 12V±10%
	Power Consumption	8W MAX 14W MAX (With IR on)
	Weather Proof	Up to IP67-rated for Weather-resistant Performance
	Housing	Vandal-proof IK10-rated Metal Housing (Without Radar Module)
	Surge Protection	4KV
	Weight	1445.8g 1447g 1623g (With radar module) 1625g (With radar module)
	Dimensions	320mmX134mmX126mm 320mmX134mmX171mm (With radar module)
	Warranty	3/5 Years

	Model	MS-C5366-X12L(V)PC (5MP)
Camera	Image Sensor	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on
	WDR	120dB Super WDR
	Shutter Time	1/100000s~1s
	IR Distance	Up to 180m
	Day/Night Mode	Day/Night/Auto/Customize/Schedule
	S/N	>55dB
Lens	Lens	5.3~64mm, 12X Optical Zoom
	Field of View	H57°~H4°/D69°~D5°/V44°~V1°
	Mount	Φ14
	Focus Control	Auto/Manual
	Aperture	F1.6~F2.8
	Iris Control	Auto
LPR	Max. Vehicle Speed	200km/h
	Recognition Accuracy	>95%
	Coverage	Support simultaneous detection of 4 regions
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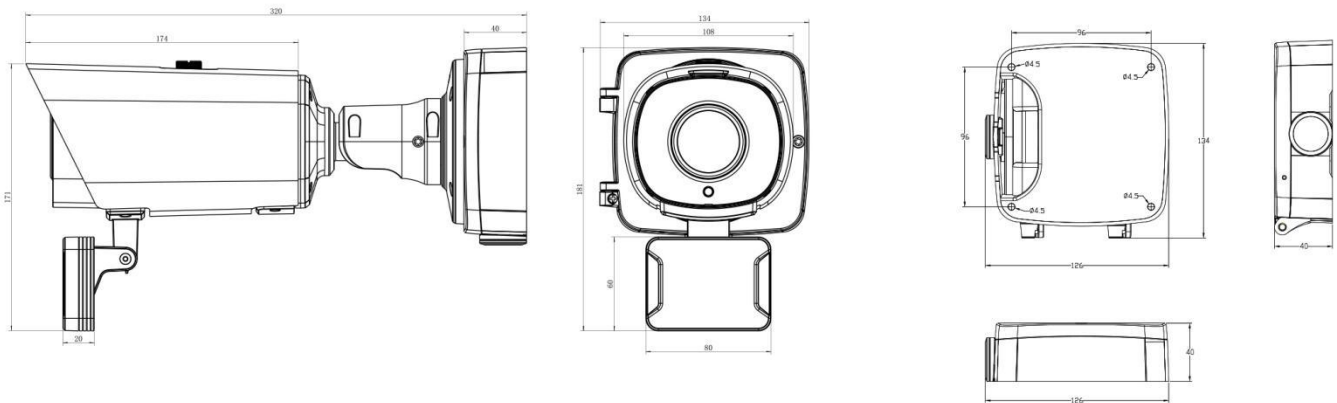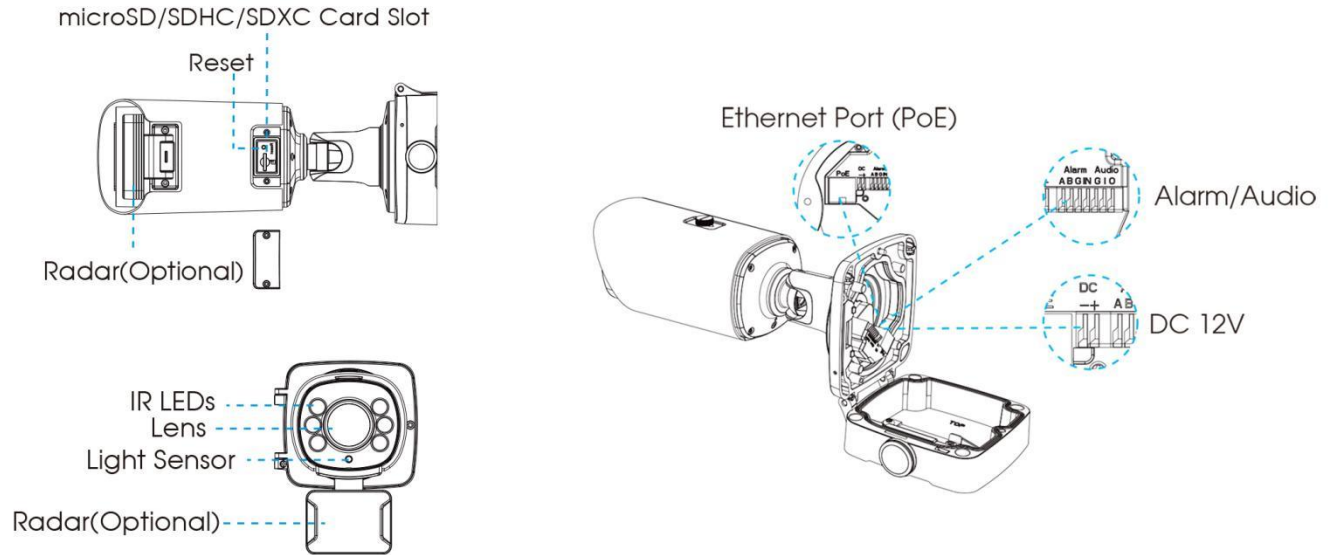
Video	Max.Image Resolution	2592x1944
	Primary Stream	60Hz: 30fps@(2592x1944), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(2592x1944), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720, 704x576)
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	Two-way Audio	Support
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256G
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
	SIP/VoIP Support	Yes, Voice & Video-over-IP
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	Power Supply	PoE (802.3at) / DC 12V±10%
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	Housing	Vandal-proof IK10-rated Metal Housing (Without Radar Module)
	Surge Protection	4KV
	Weight	1447g 1625g (With radar module)
	Dimensions	320mmX134mmX126mm 320mmX134mmX171mm (With radar module)
	Warranty	3/5 Years

Structure Diagrams

microSD/SDHC/SDXC Card Slot

Reset

Radar(Optional)

IR LEDs
Lens
Light Sensor

Radar(Optional)

Ethernet Port (PoE)

Alarm Audio
A B GN G IO

Alarm/Audio

DC
− + A B

DC 12V

320

174

40

171

134
108

181

60

80

96

96

Ø4.5   Ø4.5

Ø4.5   Ø4.5

134

126

40

126

40

20

Units: mm

Accessories Support

A62 Junction Box(Default)

Weight: 510g
Dimensions: 134*126*40mm

A01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm

A03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm