





AI LPR Series-NDAA


Datasheet

	Name	AI LPR Motorized Bullet Network Camera
Camera	Appearance	
	Model	MS-C2964-TF(I)LPA (2MP)
	Image Sensor	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.002Lux@F1.2 Color: 0.005Lux@F1.4 B/W: 0Lux with IR on
	WDR	120dB Super WDR
	Shutter Time	1/100000s~1s
	IR Distance	Up to 50m
	Day/Night Mode	Day/Night/Auto/Customize/Schedule
	S/N	>55dB
	Lens	Lens
Field of View		H111°~H34°/D130°~D39°/V60°~V19°(2.7~13.5mm) H100°~H33°/D115°~D38°/V54°~V18°(3~10.5mm) H42°~H17°/D48°~D19°/V24°~V9°(7~22mm)
Mount		Φ14
Focus Control		Auto/Manual
Iris Control		Auto/Manual (Optional for I Series)
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
Video	Max. Image Resolution	1920x1080
	Primary Stream	60Hz/50Hz: 90fps@(1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz/50Hz: 90fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x180)
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 20x180) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 20x180)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)
	Privacy Masking	Up to 24 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 (Multi-interface Version)
	Alarm I/O	1/1 (Multi-interface Version)
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	Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, 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, etc.
	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.
	License Plate Recognition	Support
	System Compatibility	ONVIF Profile G & Q & S & T, API
General	Working Temperature	-40°C~60°C
	Working Humidity	0~90%(Non-condensing)
	Power Supply	PoE (802.3af) / DC 12V±10%
	Power Consumption	8W MAX 10W MAX(With IR on)
	Weather Proof	Up to IP67-rated for Weather-resistant Performance
	Housing	Vandal-proof IK10-rated Metal Housing
	Weight	825g
	Dimensions	Φ76mmX239.5mm
	Warranty	3/5 Years

	Name	AI LPR Motorized Pro Bullet Plus Network Camera
Camera	Appearance	
	Model	MS-C2966-TF(I)LPA (2MP)
	Image Sensor	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.002Lux@F1.2 Color: 0.005Lux@F1.4 B/W: 0Lux with IR on
	WDR	120dB Super WDR
	Shutter Time	1/100000s~1s
	IR Distance	Up to 65m(3.0~10.5mm/2.7~13.5mm) Up to 100m(7~22mm)
	Day/Night Mode	Day/Night/Auto/Customize/Schedule
	S/N	>55dB
	Lens	Lens
Field of View		H113°~H33°/D130°~D38°/V60°~V18° (2.7~13.5mm) H104°~H34°/D120°~D39°/V57°~V19° (3.0~10.5mm) H45°~H17°/D53°~D20°/V25°~V9° (7~22mm)
Mount		Φ14
Focus Control		Auto/Manual
Iris Control		Auto/Manual (Optional for I Series)
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
Video	Max. Image Resolution	1920x1080
	Primary Stream	60Hz/50Hz: 90fps@(1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz/50Hz: 90fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x180)
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 320x180) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 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 24 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	Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, 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.
	License Plate Recognition	Support
	System Compatibility	ONVIF Profile G & Q & S & T, API
General	Working Temperature	-40°C~60°C
	Working Humidity	0~90%(Non-condensing)
	Power Supply	PoE (802.3af) / DC 12V±10%
	Power Consumption	7.5W MAX 14W MAX(With IR on)
	Weather Proof	Up to IP67-rated for Weather-resistant Performance
	Housing	Vandal-proof IK10-rated Metal Housing
	Weight	1630g
	Dimensions	320mmX134mmX126mm
	Warranty	3/5 Years

	Name	(Radar) AI LPR 4X/12X Pro Bullet Plus Network Camera	
Camera	Appearance		
	Model	MS-C2866-X4TL(V)PA (2MP)	MS-C2966-X12TL(V)PA (2MP)
	Image Sensor	1/2" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.001Lux@F1.2 Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.002Lux@F1.2 Color: 0.005Lux@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	8~32mm, 4X 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	
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/50Hz: 90fps@(1920x1080, 1280x960, 1280x720, 704x576)	
	Secondary Stream	60Hz/50Hz: 90fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x180)	
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 320x180) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 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 24 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	Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, 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°C~60°C	
	Working Humidity	5~90%(Non-condensing)	
	Power Supply	PoE (802.3at) / DC 12V±10%	
	Power Consumption	7.5W MAX 14.5W MAX(With IR on)	7.5W MAX 15W 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 1623g (With radar module)	1447g 1625g (With radar module)
	Dimensions	320mmX134mmX126mm 320mmX134mmX171mm (With radar module)	
	Warranty	3/5 Years	

	Name	AI LPR 20X PTZ Bullet Plus Network Camera
Camera	Appearance	
	Model	MS-C2867-X20TLPA (2MP)
	Image Sensor	1/2" Progressive Scan CMOS
	Min. Illumination	Color: 0.001Lux@F1.2 Color: 0.002Lux@F1.7 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	6.4~128mm, 20X Optical Zoom
	Field of View	H60°~H3°/D67°~D4°/V37°~V1°
	Zoom Speed	Approx 5s (Wide-Tele)
	Focus Control	Auto/Semi-Auto/Manual
	Minimum Working Distance	1000/1500mm (Wide/Tele)
	Aperture	F1.7~F2.1
	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
PTZ	Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~60°/s, Pan Preset Speed: 60°/s
	Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s
	Proportional Zoom	Support
	Preset Quantity	300
	Patrol	8 Patrols, up to 48 presets each patrol
	Pattern	4 Patterns
	Auto Tracking	N/A
	Power Off Memory	Support
	Other Function	Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position

Video	Max. Image Resolution	1920x1080
	Primary Stream	60Hz/50Hz: 90fps@(1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz/50Hz: 90fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x180)
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 320x180) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240, 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 24 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	Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, 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.
	License Plate Recognition	Support
	System Compatibility	ONVIF Profile G & Q & S & T, API
General	Working Temperature	-40°C~60°C
	Working Humidity	0~90%(Non-condensing)
	Power Supply	PoE (802.3at) / DC 12V/3A±10%
	Power Consumption	12W MAX / 23W MAX (With IR on)
	Weather Proof	Up to IP66-rated for Weather-resistant Performance
	Housing	N/A
	Weight	2.9Kg
	Dimensions	110mmX337mmX220mm
	Warranty	2 Years / 3 Years (Optional)