AI LPR 23X/36X
Speed Dome Network Camera
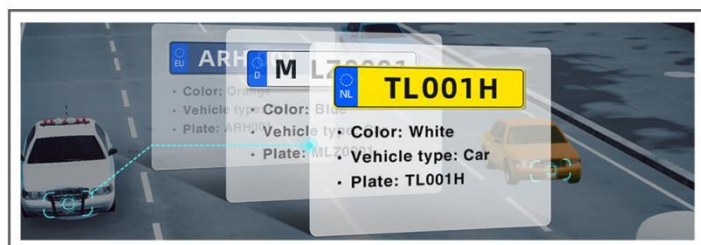
Milesight

IP66

DATASHEET

KEY FEATURES

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

▶ 140dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 140dB.)

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

▶ Smart PTZ Motion Detection (Pan and tilt to the position of motion detected area automatically and zoom in synchronously.)

▶ IR Distance up to 300m (Enabling 300 meters distinct images at night with IR LEDs.)

▶ 300 Preset Positions (The user can easily control the lens position via mouse to monitor interested area and set up to 300 preset positions for patrolling.)

▶ Keyboard Control (Shortcut keys for PTZ control via Keyboard.)

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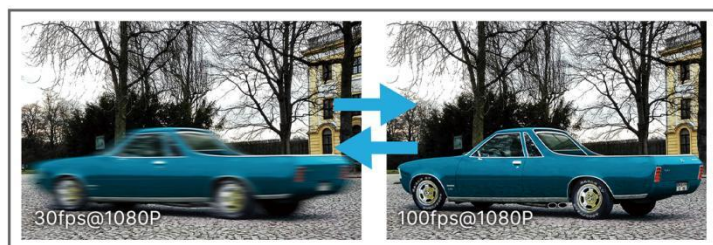
AI-powered LPR Algorithm

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.
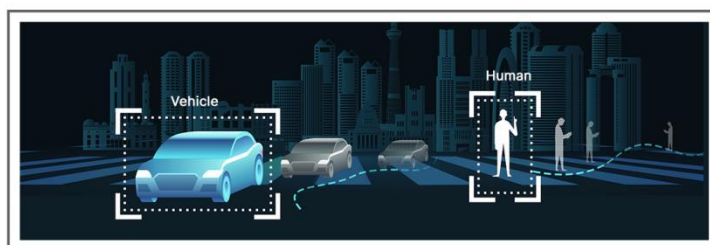

100fps

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.

30fps@1080P   100fps@1080P

Intelligent PTZ Auto Tracking

With AI detection, the Network Camera could leverage motor mechanism to perform Pan/Tilt/Zoom to track the moving human or vehicle automatically and adjust zoom status flexibly according to the target distance with the powerful optical zoom capability.

Up to 36X Optical Zoom

Embedded with optical zoom lens, the cameras' resolution is up to 36X optical zoom which allows the user to zoom up to distant objects while still maintaining the clarity and delivering high quality video over the entire zoom range.

Up to 36X Optical Zoom

AI LPR 23X/36X Speed Dome Network Camera

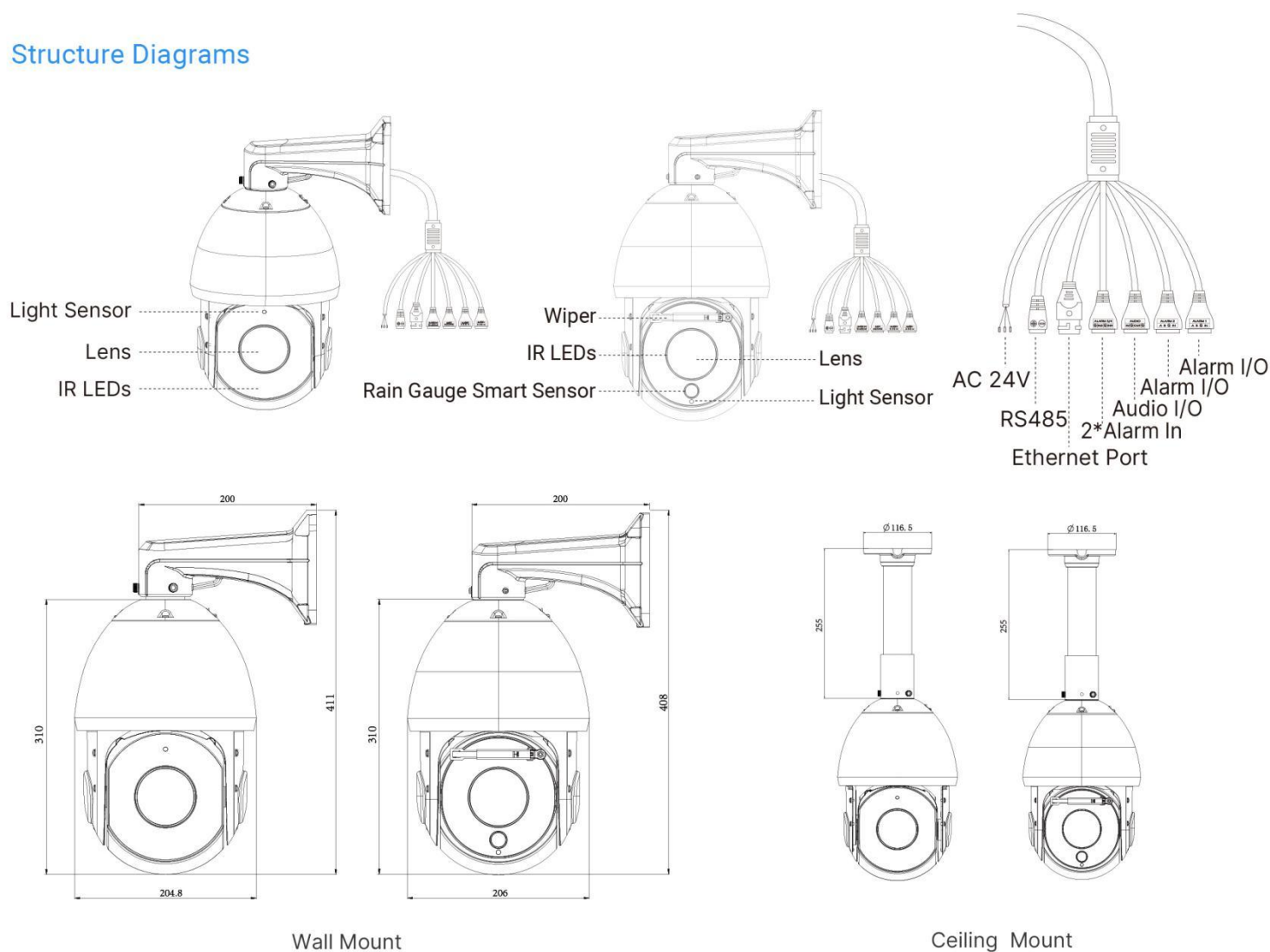|	Model	MS-C2841-X36TLPC (2MP)	MS-C2941-X23TLPC (2MP)
Camera	Image Sensor	1/2" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.002Lux@F1.55 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on
	WDR	140dB Super WDR Pro	
	Shutter Time	1/100000s~1s	
	Digital Zoom	16X	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
Lens	Focal Length	5.7~205.2mm, **36X** Optical Zoom	5~117mm, **23X** Optical Zoom
	Zoom Speed	Approx 7s (Wide-Tele)	Approx 6s (Wide-Tele)
	Field of View	H63°~H3°/D69°~D3°/ V38°~V1°	H60°~H3°/D69°~D4°/ V35°~V2°
	Focus Control	Auto/Semi-Auto/Manual	
	Minimum Working Distance	1500/1500mm (Wide/Tele)	100/1500mm (Wide/Tele)
	Aperture	F1.55~F4.8	F1.5~F3.5
	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 Classification, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition	
PTZ	Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s	
	Tilt Range/Tilt Speed	-5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s	
	Proportional Zoom	Support	
	Preset Quantity	300	
	Patrol	8 Patrols, up to 48 presets each patrol	
	Pattern	4 Patterns	
	Auto Tracking	Support	
	Power Off Memory	Support	
	Other Function	Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position	
IR	IR Distance	Up to 300m	Up to 200m
	IR Angle	Auto/Manual	
Video	Max. Image Resolution	1920x1080	
	Primary Stream	60Hz/50Hz: 100fps@(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)	

AI LPR 23X/36X Speed Dome Network Camera

Video	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	4/2
	RS485	Support
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, PTZ Motion, HTTP Notification, etc.
	System Compatibility	ONVIF Profile G & Q & S & T, API
General	Working Condition	Temperature: -40℃~60℃ / Humidity: 0~90%(Non-condensing)
	Power Supply	PoE (802.3at) / AC 24V/3A±10%
	Power Consumption	13W MAX / 23W MAX (With IR on)　　　　12W MAX / 24W MAX (With IR on)
	Weather Proof/Housing	Up to IP66-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing(Optional)
	Heater	Support
	Wiper (Optional)	Support　　　　　　　　　　　　　-
	Surge Protection	6KV
	Dimensions/Weight	Φ205mmX308mm/4Kg
	Warranty	2 Years / 3 Years (Optional)

Structure Diagrams

Light Sensor
Lens
IR LEDs

Wiper
IR LEDs
Rain Gauge Smart Sensor
Lens
Light Sensor

AC 24V
RS485
Ethernet Port
2*Alarm In
Audio I/O
Alarm I/O
Alarm I/O

200
411
310
204.8

200
408
310
206

Ø116.5
255

Ø116.5
255

Wall Mount

Ceiling Mount

Units: mm

Accessories Support

A41 Wall Mount (Default)

Weight: 400g
Dimensions: 200*129*100mm

A01 Pole Mount

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

A03 External Corner Bracket

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

A42 Pendant Mount

Weight: 650g
Dimensions: 116.5*255mm

A42-L Extension Lever

Weight: 325g
Dimension: 57*255mm

A43 Junction Box

Weight: 1000g
Dimensions: 195*164*80mm