ALCON
LINK™
BE SMART, BE SECURE

PREMIUM

AL-5001-MPC-HD212XIRDKLPRMS

2MP 60FPS RADAR AI ANPR AF 12X MOTORIZED BULLET CAMERA

Ultra Super WDR 140dB, IR Distance 150m

| PoE | 60 Frames PER SECOND | IP67 | OPTICAL ZOOM | WDR 140dB | Onvif 2.4 | STARLIGHT | SD CARD | SPEED DETECTION | LPR | S+265 HEVC | PRIVACY MASKING |

OVERVIEW

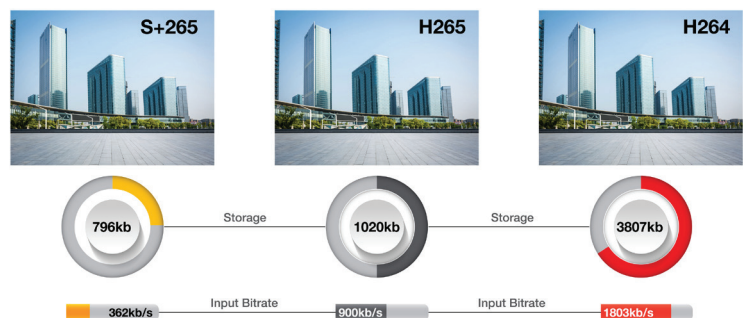**Alcon 2MP Smart ANPR & Speed Detection Camera**

The Alcon AL-5001-MPC-HD212XIRDKLPRMS Camera with Starlight Low Light Technology, Built in ANPR, Speed detection, Ultra Super WDR (140db) and H.265+ Video Compression with Dual ICR is, in true sense of an Ultra Smart IP Camera that provides high resolution images for round-the-clock surveillance over IP networks. It supports H.265+/H.264, MPEG-4, and JPEG compression formats and delivers excellent picture quality in 2MP resolutions. It is also equipped with a mounting bracket that conceals all cables within for easy management and waterproofing. Furthermore, the IP67-rated housing protects against rain and dust and ensure stable operation under extreme weather conditions. IR-Cut filter & built-in IR illuminators enables the camera to provide colour (0.002Lux) video in low light condition and black/white clear video in extreme dark conditions. The inbuilt white light LED enables to scare off offenders from the scene. It supports flexible power supply options of either Power-Over-Ethernet or adapter power. It is an ideal solution for outdoor and indoor traffic monitoring & management applications such as smart city, highway, roads, parking areas, entry/exit gates etc.

FEATURES

- 2MP, Starlight 0.002lux
- Motorized 5.3~64mm, 12x Optical Zoom
- 1080P, 1920x1080@60fps
- H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
- Ultra Super WDR 140dB, IR Distance 50m
- Micro SD Card Support Up to 256GB
- Built in ANPR & Vehicle speed detection.
- Max vehicle speed 200km/h
- IR distance up to 150m
- NAS(Support NFS, SMB/CIFS)
- Lane Coverage 1~4 Lanes (Recognition ≥95%)
- Alarm I/O: 1/1 & Audio I/O: 1/1
- Surge Protection 4kv
- Up to IP67-rated for weather-resistant performance

LATEST COMPRESSION H.265+ TECHNOLOGY

ALCON cameras and NVRS are coming with H.265+ can save approximate 70% bitrate than H.264 technology 100:30….70% less storage another new gen technology circuit making it extremely durable and best suitable for Industrial type installations.

| S+265 | H265 | H264 |

| 796kb | Storage | 1020kb | Storage | 3807kb |

| 362kb/s | Input Bitrate | 900kb/s | Input Bitrate | 1803kb/s |

S+265 can save approximate 50% bitrate than H.265 technology, saves 70%-80% bandwidth compared with H.264

AUTO FOCUS

Alcon autofocus Camera is an ideal choice for surveillance and monitoring when the field of view encompasses large differences in distances of the target or the target is moving and often changes its distance to the camera. Alcon autofocus Camera lenses are zoom lenses; a variation of this type of lens is a vari-focal lens which can vary its focal length by manual adjustment and can zoom upto 12x Remotely.

WithOut Zoom Lens

Autofocus Zoom Lens

STARLIGHT TECHNOLOGY

ALCON starlight 0.002Lux (Starlight) series is most advance product with low light scenario with Cristal clear and color picture on Night.

Normal mode ON

Starlight (0.002Lux) mode ON

ULTRA SUPER WDR (140dB)

Commonly used Digital WDR (D-WDR), which is a software-based technique to enhance image by adjusting the gamma value to enhance dark areas is responsible for image deterioration (i.e. the image being washed out). Alcon sensor-based WDR technology allows the camera to record greater scene details with true color reproduction even under the extreme back light and high contrast conditions. The ratio that the brightest light signal values divided by the darkest light signal values is up to 140dB.

WDR OFF

120dB WDR ON

140dB SUPER WDR ON

TRIPLE STREAMING

The Alcon all Camera Series supports 3 simultaneous streams. Stream 1 for Local Recording and Viewing at full resolution, stream 2 for Remote viewing and recording over the internet and stream 3 for special applications, Smart Phones and hand held devices. Keeping in mind the growing trend of video analytics and Smart Phone applications, this feature enhances analytics and mobile viewing experience over conventional IP Camera having Dual Stream only.

1 MAIN STREAM

2 Second STREAM

3 Third STREAM

PRIVACY MASKING

Privacy masking is a feature found in many IP cameras which is used to protect personal privacy by concealing parts of the image from view with a masked area. Examples of this use would be masking windows of domestic properties

Privacy Masking ON

Privacy Masking OFF

HIGH LIGHT CONTROL

Alcon HLC function is designed to allow camera capture vehicle plate license. HLC stands for Hight-light compensation, this technology is designed to optimize the brightness of images through using digital signal processing.

ADVANCED 3D RADAR TECHNOLOGY

The Alcon 3D radar technology can locate vehicle position & direction with maximum accuracy. Based on AI-Powered ANPR algorithm this 3D radar technology can identify vehicle distance, speed detection & flow control, professionally optimizing traffic monitoring & the safety of public transport.

60FPS

Alcon Super Starlight Camera offers super high frame rate up to 1920x1080@60fps resolution which is double the number of frames offered by conventional HD network cameras. This technology enables the camera to capture stable and latency free clear images on fast moving objects.

DIGITAL NOISE REDUCTION

Digital Noise Reduction (DNR) is a method by which the camera's imager digitally removes noise from the image. 3D DNR is an advancement of this technology which enables noise to be filtered even more effectively from the image, even in low light conditions.

ANPR SOLUTION (LPR CAMERAS)

(Automatic number-plate recognition) can be used to store the images captured by the cameras as well as the text format of license plate with a photograph of the driver. Alcon provides 99-100% accuracy on standard license plate as per RTO. Alcon ANPR systems commonly use to allow the camera to take the picture at any time of day and night. Alcon providing single dashboard solution of ANPR with Speed violation, Face Detection and RLVD (Red Light Violation detection).
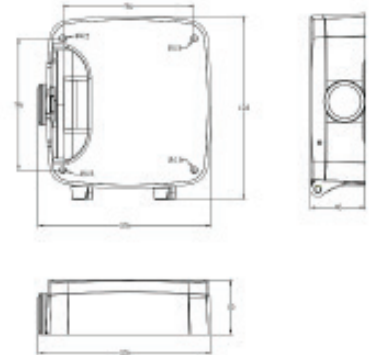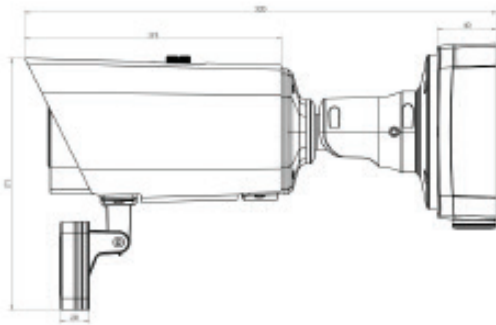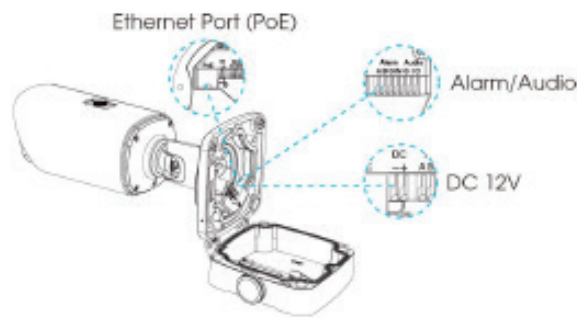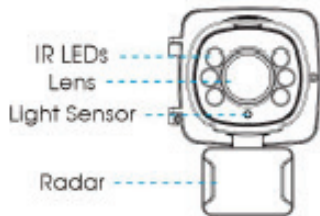
SPECIFICATION

Model	AL-5001-MPC-HD212XIRDKLPRMS
Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002Lux @F1.2, Color: 0.005Lux @ F1.6, B/W: 0Lux with IR on
WDR	140dB Super WDR
Shutter Time	1/100000s~1s
Day/Night Mode	Day/Night/Auto/Customize/Schedule
IR Distance	Up to 150m
S/N	>55dB

Lens	
Lens	5.3~64mm, 12X Optical Zoom
Field of View	H61°~H5°/D69°~D5°/V36°~V2°
Mount	Ø14
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
White/Black List	Up to 1000 records inside the camera
Smart Traffic Detection	License Plate Recognition, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition, Vehicle Direction Detection, Speed Detection

Radar	
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
Frame Rate	60fps@(1920x1080, 1280x960, 1280x720, 704x576)
Secondary Stream	60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)
Tertiary Stream	30fps@(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 24 areas
ROI	Up to 8 areas
Image Settings	Saturation/Brightness/Contrast/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(Optional)
Network Protocols	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, UPnP, Bonjour, SIP, SNMP, 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, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
SIP/VoIP Support	Yes, Voice&Video-over-IP
Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, 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°C60°C
Working Humidity	0~90%(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
Surge Protection	4KV
Weight	1447g/ 1623g (With Radar module)
Dimensions	320mmX134mmX126mm/ 320mmX134mmX-171mm (With Radar module)
Warranty	2 Years
Certifications	CE, FCC, IEC

DIMENSIONS
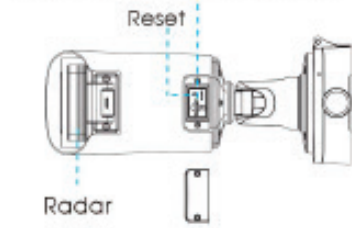
ORDERING INFORMATION

AL-5001-MPC-HD212XIRDKLPRMS	2MP 60fps Radar AI ANPR AF 12X Motorized Bullet Camera