

**AL-5001-MPCT-HD2FRUDK**

# 4MP THERMAL & OPTICAL BI-SPECTRUM NETWORK BULLET CAMERA

Alcon's Stylish Super Starlight Low Illumination (0.0004lux) technology  
Super WDR (120dB)



## OVERVIEW

### 4MP Thermal & Optical Bi-spectrum Network Bullet Camera

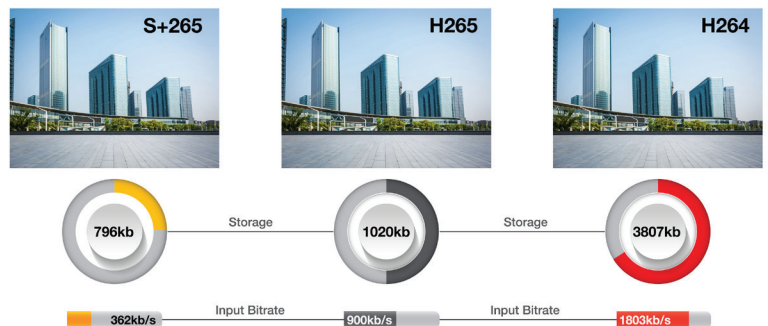
The Alcon AL-5001-MPCT-HD2FRUDK Thermal Temperature Screening Camera with Super Starlight Low Light Technology, Super WDR (120dB), S+265 Video Compression & dual IR LED Illuminator is, in true sense of an Ultra Smart IP Camera that provides Clear & thermal images for round-the-clock surveillance over IP networks. It supports S+265/ H.265/ H.264/ MPEG-4 and JPEG compression formats which delivers excellent picture quality in 4MP resolution. It is also equipped with IP67-rated housing protects against rain and dust and ensures stable operation under extreme weather conditions. But, you are suggested to use this solution in indoor environment for better accuracy. IR-Cut filter and built-in IR-illuminators enables the camera to provide color (0.0004 Lux) video when there is minimum light source or black/white clear video in extreme dark environment. 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 surveillance applications such as Government or private offices, Schools buildings, Shopping malls, exhibition centers, railway and airports etc.

## FEATURES

- Supports optical and thermal bi-spectrum image
- Vanadium Oxide Uncooled Focal Plane Arrays
- Thermal Resolution 256×192
- output resolution up to 1280×960@25fps
- Measure Accuracy ±0.5°C, (±0.3°C with blackbody)
- Optical Resolution up to 2560×1440@25fps
- Optical Min. illumination Color: 0.0002Lux@F1.0
- Face Mask detection & Face capture
- Eearly Warning, POE, IP67
- Face Mask & high temperature warning
- , Built-in Mic, Speaker & White light LED
- Super WDR 120dB, Support ANR
- Built-in MicroSD card slot, up to 256 GB
- ONVIF (PROFILE S), SDK, CGI, P2P
- CE & FCC

## LATEST COMPRESSION S+265 TECHNOLOGY

ALCON cameras and NVRs are coming with S+265 technology the compression ratio with H.264 technology 100:20....80% less storage another new gen technology circuit making it extremely durable and best suitable for Industrial type installations.



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



## BODY TEMPERATURE SCANNER

Alcon **Thermal & Optical Bi-spectrum Camera** can be used as a very effective mass human body temperature scanner, allowing organizations to simultaneously monitor the temperature of human body up to 65 persons in areas in which there is a constant flow of peoples. Comprising of a thermal imaging camera and Vanadium Oxide Uncooled Focal Plane Arrays, our human Body Temperature System can provide temperature information in real time & accuracy up to 99% , preventing the spread of the virus to potentially unlimited numbers of peoples, other key workers, stuffs, members & public.

## FACE MASK DETECTION

There is currently no vaccine to prevent corona virus disease 2019 (COVID-19). The best way to prevent illness is to avoid being exposed to this virus. Facemask is one of the most effective ways to cut down the route of infection according to experience. Based on deep learning algorithm mask detection camera could detect face and recognize, that whether this face is covered by face mask. If camera recognized one person without wearing facemask, then built-in speaker will display voice warning and white light will flash for warning.



## SUPER STARLIGHT

ALCON Super Starlight 0.0002Lux (DARK KNIGHT) series is most advance product with low light scenario with Cristal clear and color picture on Night.

## SUPER WDR (120DB)

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 120dB.

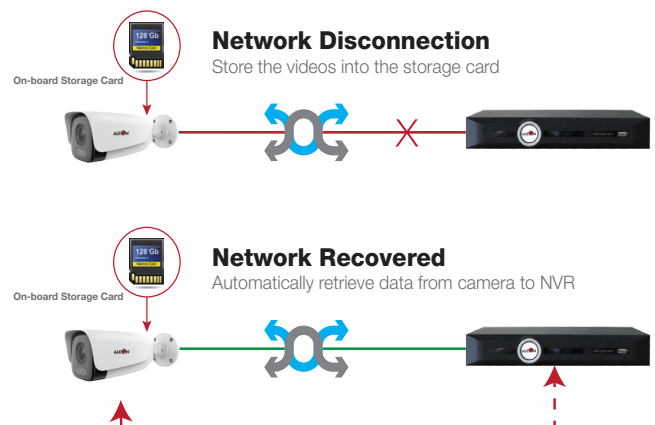


## HIGH LIGHT CONTROL

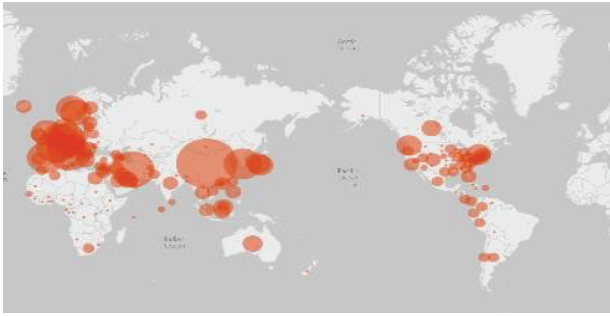
Alcon HLC function is designed to allow camera capture vehicle plate license. HLC stands for Hight-light compensation, this technology is designed to optimize the brightness of images through using digital signal processing.

## ANR FEATURES

NVRs (Network Video Recorders) with the ANR (Automatic Network Replenishment) function can automatically store video data on the IPC (Internet Protocol Camera) storage card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.







## PANDEMIC

COVID-19 spreads worldwide, it is infecting people and spreading easily from person-to-person, because there is little to no pre-existing immunity against this new virus. On March 11, the COVID-19 outbreak was characterized as a pandemic by WHO

## SYMPTOM

Fever, cough, and difficulty breathing are the most common symptoms of COVID-19. Detection fever is an effective way to know suspected case and take action in time.

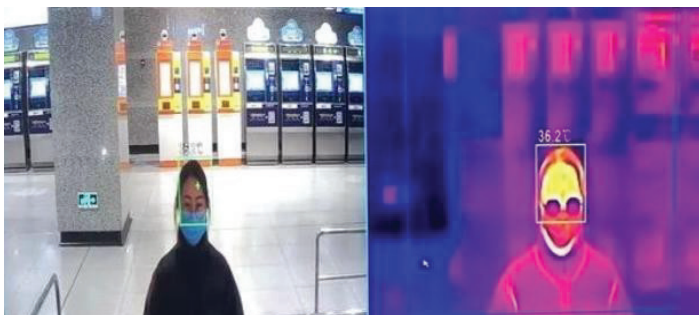


## BORDER CONTROL

Pandemic of COVID-19 brings a huge challenge to border control for every country. Strict border control is necessary in order to avoid coronavirus spreading from foreign.

## PUBLIC PLACE CONTROL

Fever detection plays an important role in During outbreak everyone should be tested skin surface temperature in order to protect everyone's health before enter in border control process. public place, such as metro, bus, shopping mall, railway station or airport.



## BI-SPECTRUM

Camera supports optical and thermal bi-spectrum image, which allow system detecting temperature and check situation at the same time.

## NON CONTACT

Thanks to the thermal technology non-contact temperature measurement could be realized, which not only ensures public safety, also the staffs who are on duty at the same time



## FLEXIBLE INSTALLATION

Suitable for different brackets, easy to install for different scenarios.

## KEY FEATURES

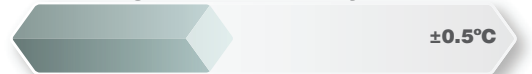


**FEVER DETECTOR**

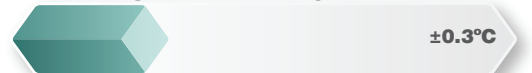
### Accuracy



### Error range without Blackbody



### Error range with Blackbody



### Detection Range



### Detection Distance



### NETD



## APPLICATION



**Airport**



**Railway Station**



**Shopping Mall**



**Office Building**

## FLEXIBLE INSTALLATION

### Temporary control

It could be easy to install with the help of Tripod

### Fixed installation

Camera should be installed above the path for passenger detection shouldn't be more than 10



## SOLUTION FEATURES

### LOCAL MANAGEMENT

Solution structure and installation Live view temperature and optical view at web interface or UI

### QUICK DETECTION

Camera could detect up to 60 person per minute

### VOICE WARNING

Voice warning could be set at camera. It helps staff know abnormal situation immediately

### FACE CAPTURE

Automatic capture face from video stream  
Temperature overlay on face picture

### ALARM MANAGEMENT

When camera detects fever, alarm will be triggered via alarm output and speaker

### STATISTIC

On NVR could do statistics about temperature detection

### GOOD COMPATIBILITY

Integrated with third-party platform or device via SDK or CGI.

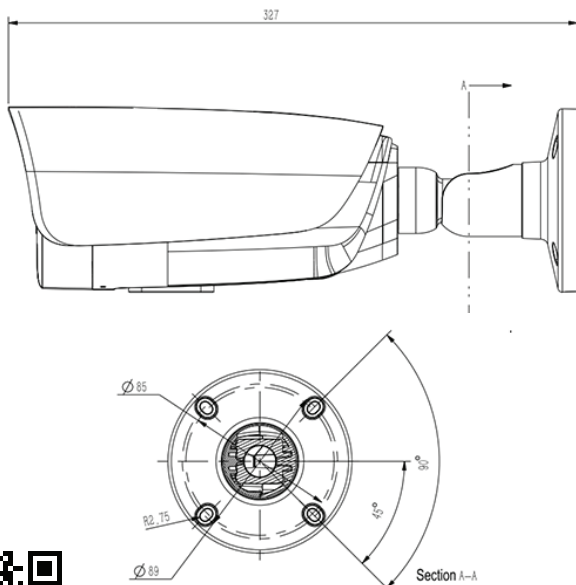




## SPECIFICATION

MODEL (THERMAL MODULE)		AL-5001-MPCT-HD2FRUDK
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	
Max. Resolution	256 192	
Pixel Interval	12µm	
Response Waveband	8 µm to 14 µm	
Focus	3.2mm	
NETD	50mK@25 , F1.1, 25Hz	
Measurement Range	30°C (86°F) to 45°C (113°F)	
FOV	Horizontal field of view: 51°	
Measurement Accuracy	±0.5	
Measurement Distance	0.5m~3m	
OPTICAL MODULE		
Image Sensor	1/1.8" CMOS	
Signal System	PAL/NTSC	
Min. Illumination	Color: 0.0002Lux@ (F1.0, ACG ON), B/W: 0Lux with IR	
Shutter Time	1s to 1/100,000s	
Day & Night	Dual IR Cut Filter with Auto Switch	
Wide Dynamic Range	120dB	
LENS		
Lens Type	Fixed	
Focus	4mm	
Lens Mount	M12	
Aperture	F1.0	
FOV	Horizontal field of view: 90°	
ILLUMINATOR		
White LEDs	1	
COMPRESSION STANDARD		
Video Compression	S+265/H.265/H.264/M-JPEG	
Video Bit Rate	32 Kbps to 16 Mbps	
Audio Compression	G.711A/G.711U/ADPCM/AAC	
Audio Bit Rate	8K~48Kbps	
FEATURE		
Alarm Trigger	Event Input, Event Output, Motion Detection, Mask Alarm, Disk Full, Disk R/W Error, IP Address Conflict, MAC Address Conflict, FTP Server Exception	
Video Analytics	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Video Abnormal, Audio, Abnormal	
Early Warning(EW)	Yes	

## DIMENSIONS



\*Product specifications and availability are subject to change without notice.

IMAGE	
Max. Resolution	2560×1440
Main Stream	PAL: 25fps (2560×1440, 1920×1080, 1280×720, 704×576), Thermal: 25fps (1280×960, 1024×768, 640×480, 256×192)
Sub Stream	NTSC: 25fps (2560×1440, 1920×1080, 1280×720, 704×576), Thermal: 25fps (1280×960, 1024×768, 640×480, 256×192)
Third Stream	PAL: 25fps (704 576, 640 360, 352 288) NTSC: 25fps (704 576, 640 360, 352 288)
Image Setting	Saturation, brightness, contrast, sharpness, adjustable by client software or web browser
Image Enhancement	BLC/3D DNR/HLC
ROI	Support 7 fixed region of coding
OSD	16 16, 24 24, 32 32, 48 48, 64x64, 96x96, adaptable size, Letters Such as Week, Date, Time, Total 5 Regions
Picture Overlay	Yes
Private Mask	Yes
Smart Defog	Yes
NETWORK	
ANR	Yes, auto store video in SD card when NVR disconnected, and upload video to NVR when resumed connection (Only Support Alcon ANR NVR)
Protocols	TCP/IP, ICMP, HTTP, HTTPS, DHCP, DNS, DDNS, MULTICAST, UPnP, FTP, IPV4, NTP, RTSP, SMTP, IGMP, 802.1X, QoS, PPPoE
System Compatibility	ONVIF (PROFILE S), SDK, CGI, P2P
Remote Connection	7
Client	Alcon Smart Surveillance
Web Version	Web6
INTERFACE	
Communication Interface	1 RJ45 10M/100M self adaptive Ethernet port
Audio	1/1, Mic in
Alarm	2/1
Reset Button	Yes
On-board storage	Built-in MicroSD card slot, up to 256 GB
GENERAL	
Web Client Language	15 languages(English, Russian, Spanish, Korean, Italian, Turkish, Simple Chinese, Traditional Chinese, Thai, French, Polish, Dutch, Hebrew, Farsi, Arabic)
Operating Conditions	10~30°C
Power Supply	DC12V±20%/PoE
Power Consumption	MAX: 8W
Protection	IP67, Lightning protection, surge protection and voltage transient protection meets EN 55035:2017
Heater	N/A
Dimensions	224×114×107 mm (8.81×4.49×4.21 inch)
Weight	1.3kg (2.87lb)
Certification	CE & FCC

## ORDERING INFORMATION

AL-5001-MPCT-HD2FRUDK  
4MP S+265 Super Starlight Thermal Fever Detection Camera