

technical specifications

VK-IPC-B581-AS-LI



8 MP
2.8 mm



warm light 50 m
built-in IR 50 m



face detection
people counting
heat map



IP67
metal case

Camera

Image sensor	1/1.8" CMOS
Max. resolution	8MP, 3840 (H) × 2160 (V)
Electronic shutter	Auto/Manual 1/3 s - 1/100000 s
Min. illumination	0.0008 Lux (Color) 0.0004 Lux (B/W) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination distance	warm light 50 m / built-in IR 50 m
Illuminator control	Auto/Manual

Lens

Lens type	Fixed-focal
Focal length	2.8 mm
Max. aperture	F/1.6
Field of view	H: 107° / V: 56° / D: 127°
Iris type	Auto

Video

Compression	H.264H/H.264M/H.264B/H.265
Smart compression	H.264H+/H.264M+/H.264B+/H.265+
Video frame rate	Main Stream: 8MP (1 fps~25/30 fps) Sub Stream: D1 (1 fps~25/30 fps) Third Stream: 1080P (1 fps~25/30 fps)
Bit rate control	CBR/VBR
Video bit rate	H.264: 3 Kbps~16384 Kbps H.265: 3 Kbps~16384 Kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
AWB	Yes
AGC	Auto/Manual
WDR	140 dB
Motion detection	OFF/ON (4 areas, rectangular)

Noise reduction	3D NR
Image rotation	180°
Mirror	Yes

Intelligence

Smart motion detection	Yes
Perimeter protection	Intrusion, tripwire (Support the classification of Vehicle / Human / Non-Motor)
Loitering detection	Yes
People gathering	Yes
Parking detection	Yes
Face detection	Yes
Object detection	Abandoned object, missing object
People counting	Yes
Heat map	Yes
AI Search	Work together with NVR
Video metadata	Detection and attributes: motor vehicle, non-motor, face and human body.

Audio

Built-in mic	Yes
Built-in speaker	Yes
Audio compression	G.711a/G.711Mu/G.726/G.726ASF

Alarm

Sound and light alarm	Yes
Arming / disarming	Yes
Alarm event	network disconnection; IP conflict, no SD card, capacity warning, SD card error

Network

Network	RJ-45 (10/100 Base-T)
SDK and API	Yes

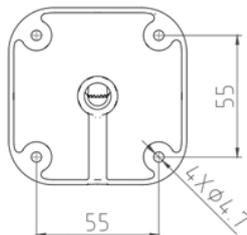
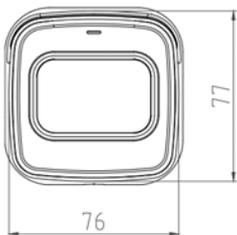
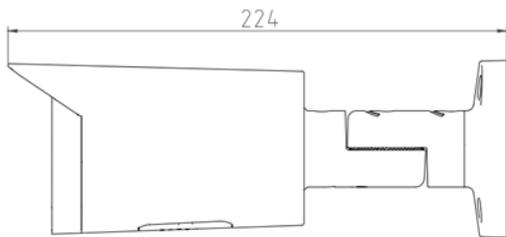
Network protocol	TCP/IP, UDP, HTTP, IGMP, ICMP, DHCP, RTP/RTSP, DNS, DDNS, FTP, NTP, PPPOE, UPNP, SMTP
Interoperability	ONVIF, CGI, P2P (Q2 2025)
User/Host	16 (total bandwidth: 80 M)
Storage	FTP, micro SD card (support max. 256G)
Browser	IE8 and later Chrome Firefox
Mobile client	iOS, Android

Port

Audio input	1 channel (RCA port)
Audio output	1 channel (RCA port)
Alarm input	1 channel
Alarm output	1 channel
RS485	Support

General

Power supply	12V DC ($\pm 30\%$) / PoE (802.3af)
Power consumption	Basic: 2.5W / Max.: 5.2W
Operating conditions	-30°C to $+60^{\circ}\text{C}$ / Less than 95% RH
Storage conditions	-40°C to $+60^{\circ}\text{C}$
Protection grade	IP67
Casing	Metal
Dimensions	224 mm \times 77mm \times 76mm



Accessories (not included):



VK-BOX-B3

Available models:
VK-IPC-B581-AS-LI