



technical specifications

VK-IPC-T181-AS-L



8 MP
2.8 mm



smart dual light
IR and white light



SMD
human detection



IP67
metal & plastic case

Camera

Image sensor	1/2.7" CMOS
Max. resolution	8MP, 3840 (H) x 2160 (V)
Electronic shutter	Auto / Manual 1/3 s - 1/100,000 s
Min. illumination	0.007Lux (Color) / 0.0007Lux (B/W) 0Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination distance	IR light 40 m / white light 40 m
Illuminator control	Auto/Manual

Lens

Lens type	Fixed-focal
Focal length	2.8 mm
Field of view	Horizontal: 107°; vertical: 56°; diagonal: 127°
Max. aperture	F/1.6
Iris type	Auto

Video

Compression	H.264H/H.264M/H.264B/H.265
Video frame rate	Main Stream: 8MP (1 fps–20 fps) Sub Stream: D1 (1 fps–25/30 fps) Third Stream: 720P (1 fps–25/30 fps)
Bit rate control	CBR/VBR
Video bit rate	H.264: 3 Kbps–20480 Kbps H.265: 3 Kbps–20480 Kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
AWB	Yes
AGC	Auto/Manual
WDR	DWDR
Motion detection	OFF/ON (4 areas, rectangular)
Noise reduction	3D NR
Image rotation	180°
Mirror	Yes
Privacy masking	4 areas

Intelligence

Smart motion detection	Yes
Human detection	Support

Audio

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

Alarm

Alarm event	network disconnection; IP conflict; no SD Card; capacity warning; SD card error
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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	20 (Total bandwidth: 80 M)
Storage	FTP; Micro SD card (up to 256GB) IOS; Android
Mobile Client	IE8 and later; Chrome; Firefox

General

Power supply	12V DC (±30%) / PoE (802.3af)
Power consumption	Basic: 2.1 W; Max: 4.2W
Operating conditions	–30°C to +60°C / Less than 95% RH
Storage conditions	–40°C to +60°C
Protection grade	IP67
Casing	cover ring: plastic / case: metal
Dimensions	∅ 110 mm x 97 mm

Available models:
VK-IPC-T181-AS-L
VK-IPC-T181-AS-L-B