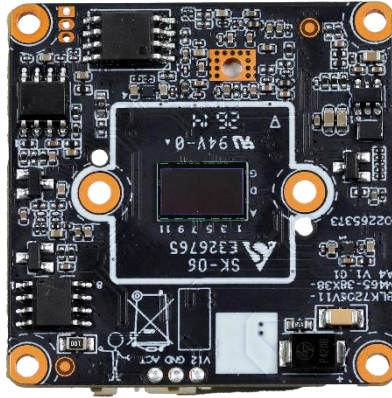


IVG-K8 Module Specification

Version:20260605



Introduction

IVG-K8 is an 8MP AI smart network camera module. It delivers 4K images with low noise, black-light full-color technology, enhanced night vision, and clearer facial details. The module supports human detection, face detection, vehicle detection, people counting, and absence detection. It features H.265 AI encoding and is primarily used in high-definition night vision surveillance cameras.

Main Features



4K



H.265AI



AI black light



Human Detection



Face detection



vehicle detection



absence detection



people counting,



Lightning Protection

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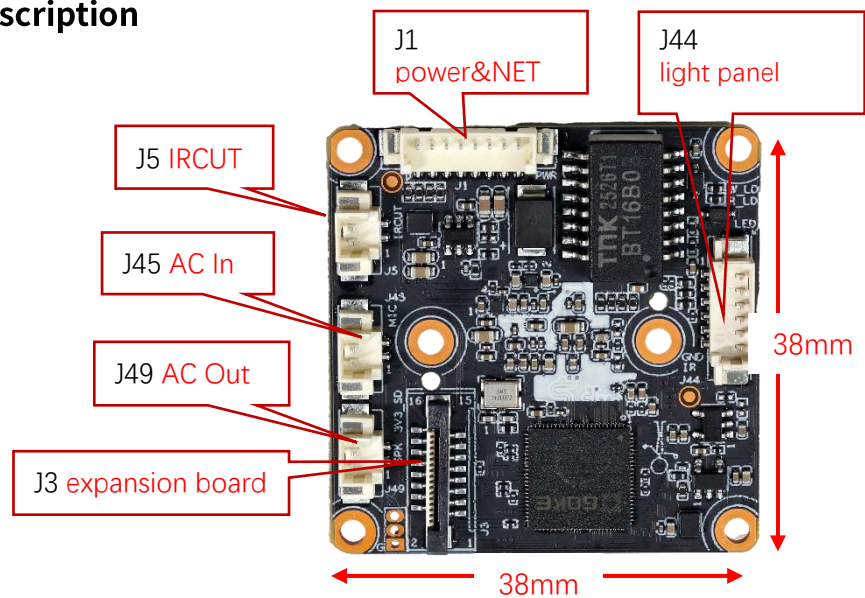
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1. Product Parameters

	Model	IVG-K8
Module	System structure	Embedded Linux,dual-core 32bit DSP,pure hard compression ,watch dog
	Sensor	1/1.8" CMOS sensor, color 0.0005 Lux@F1.2
	Video compression	H.265AI(Compatible with H.265/H.264), support dual stream, AVI;0.1M~10Mbps variable;1~30f/s variable
	Image output	Main stream: 4K(Default) 3840*2160@25fps; 6MP 3200*1800@25fps; 5MP 2880*1616@25fps; 4MP 2688*1520@25fps; 3MP 2304*1296@25fps; 2MP 1920*1080@25fps; 720P 1280*720@25fps; sub-stream: HD1(Default) 800*448@25fps; D1 704*576@25fps; QVGA 640*360@25fps; CIF 352*288@25fps;
	Shutter	1/50(1/60) s to 1/10,000s
	Lens	No
	Day and night	Night vision full-color
Image	Noise reduction	Support 2D/3D
	Wide dynamic	Support digital
	Auto iris	N/A
Interface	Audio compression	G.711, support bidirectional talk,audio&video synchronization
	Audio interface	1 audio input, MIC: Selection range -28dB~-36dB, -33dB is recommended. 1 audio output, speaker: recommended to use 8 Ω 2W specification
	Network interface	1*RJ45 10/100M adaptive Ethernet port; support RTSP/FTP DHCP/NTP/UPnP etc
	Extension interface	Support for expanding SD&WIFI card slots
	Motor interface	N/A
	Alarm I/O	0/1 (Supports alarm output and alarm linkage,Supports 3.3V output)
	WIFI interface	None (extension supports)
	Reset interface	Supports (configurable as alarm input)
	SD Card	None (extension supports)
Other function	Other function	Support WEB,OSD,live video transmission, motion detect and IO alarm, front-end storage/playback/download, and center reminder and image linkage, support FTP capture;united remote client monitoring software、MYEYE;perfect SDK;
	ONVIF	Support
	Mobile monitoring	Support multiple mobile monitoring (iOS, Android)
Intelligence	Intelligence analysis	Supports human detection, face detection, vehicle detection, people counting, and absence detection.,support customization of other intelligent functions
General	Reliability	Comprehensive lightning protection, 7 * 24 hours -10°C~65°C high temperature stable and reliable testing
	Power	DC12V/2A input, power consumption: ≤3W
	Dimension	38mm*38mm
	Other	Support POE power supply

2. Interface Description



Socket	Specific No	Interface Description	Function
J5	1	IR-CUT	IR-CUT Drive
	2	IR-CUT	IR-CUT Drive
J44	1	W_LED_GPIO0_4	White light control
	2	R_LED_GPIO2_0	Infrared light signal control
	3	LED/GPIO6_5	Alarm output/indicator light
	4	GND	GND
	5	IRIN	Hard photosensitive input signal
	6	IO/GPIO6_4	Reset (configurable as alarm input)
J1	1	ETH_LINK_ACT_LED	Indicator light
	2	ETH_LINK_STA_LED	Indicator light
	3	ETHTX+	ETHTX+
	4	ETHTX-	ETHTX-
	5	ETHRX+	ETHRX+
	6	ETHRX-	ETHRX-
	7	GND	GND
	8	12V	12V input
J45	1	MICN	Audio input(-)
	2	AC_IN	Audio input(+)
J49	1	SPKN	Audio output(-)
	2	SPKP	Audio output (+)
J3	1	GND	GND
	2	SD0_CLK/BOOT_SEL0	SD 卡时钟
	3	GND	GND
	4	SD_DATA0	SD card data DATA0
	5	SD_DATA1	SD card data DATA1
	6	SD_DATA2	SD card data DATA2
	7	SD_DATA3	SD card data DATA3

	8	SD_CMD	Command
	9	GND	GND
	10	DETECT	SD Card Detect
	11	WIFI_PDN	Wi-Fi Power Control Signal
	12	WIFI_DN	Wi-Fi Signal -
	13	WIFI_DP	Wi-Fi Signal +
	14	GND	GND
	15	WIFI_POWER	Wi-Fi Power
	16	3V3_SD	3.3V

3. Electrical Parameters

3.1 Absolute Electrical Parameters

Parameter	Description	Min	Max	Unit
Ts	Storage temperature	-40	150	°C
VCC	Power supply voltage	9.6	14.4	V
Static electricity discharge voltage (Air)	TAMB-25°C	-4	4	KV
Static electricity discharge voltage (Contact)	TAMB-25°C	-4	4	KV

3.2 Working Conditions

Parameter	Description	Min	Max	Unit
Ta	Working temperature	-20	65	°C
VCC	Power supply voltage	10.8	13.2	V