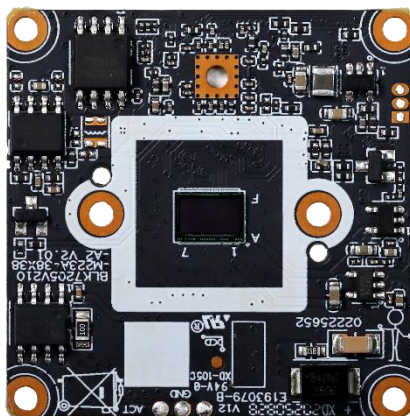


IVG-G4J Module Specification

Version:20260629



Introduction

IVG-G4J is a 4MP HD AI Intelligent IP Camera Module, 4MP image, Low noise, double light full color, improved night vision, clearer faces, support human detection, Face detection, support H.265AI coding, mainly used in night vision HD video surveillance camera.

Main Features



CMOS



H.265AI



AI Noise Reduction



Human Detection



Face detection



Lightning Protection



Automatic ICR



NPU

Content

1.Product Parameters.....3

2. Interface Description 4

3. Electrical Parameters.....4

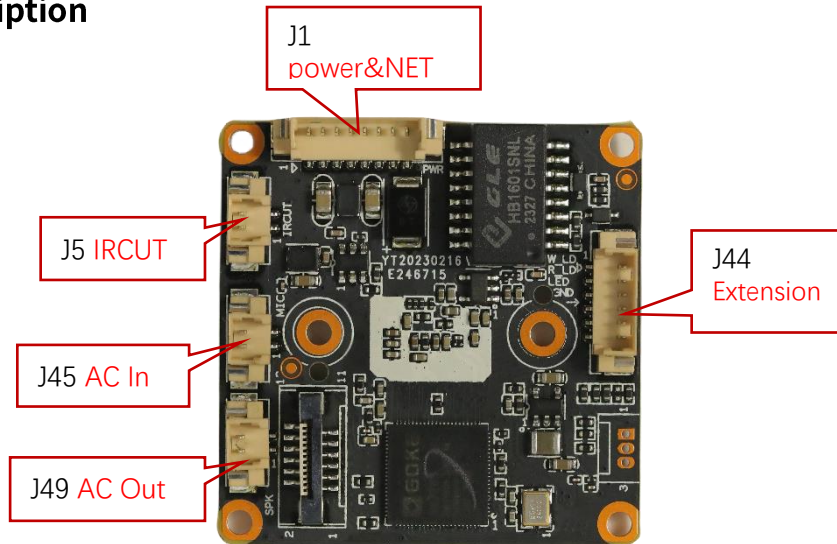
 3.1 Absolute Electrical Parameters.....4

 3.2 Working Conditions.....5

1. Product Parameters

	Model	IVG-G4J
Module	System structure	Embedded LINUX,dual-core 32bit DSP,pure hard compression ,watch dog
	Sensor	1/2.9" CMOS sensor, color 0.01Lux@F1.2, black/white 0.001Lux@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: 4MP(Default) 2560*1440@25fps,3MP 2304*1296@25fps,2MP 1920*1080@25fps,720P 1280*720@25fps; sub-stream: HD1 800*448@25fps, D1 704*576@25fps;
	Shutter	1/50(1/60) s to 1/10,000s
	Lens	No (12v standard voltage supply)
	Day and night	Support IR-CUT, IR-CUT coil has an internal resistance of 20 ohms, the power-on time is less than 200ma, Recommended use: 5V standard voltage IR-CUT
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, no amplifier module, requires an external amplifier to drive the speaker
	Network interface	1*RJ45 10/100M adaptive Ethernet port; support RTSP/FTPDHCP/NTP/UPnP etc
	Extension interface	N/A
	Singal interface	One photo resistance interface,one IR-CUT interface ,support photo resistance signal and IR-CUT links to IR
	light panel interface	1*infrared & white light control interface
	Motor interface	N/A
	Alarm I/O	0/1 (Supports alarm output and alarm linkage,Supports 3.3V output)
	WIFI interface	N/A
	Reset interface	Supports (configurable as alarm input)
	SD Card	N/A
Intelligence	Intelligence analysis	Support human detection and face detection,support customization of other intelligent functions
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)
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(-)

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℃	-4	4	KV
Static electricity discharge voltage (Contact)	TAMB-25℃	-4	4	KV

3.2 Working Conditions

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