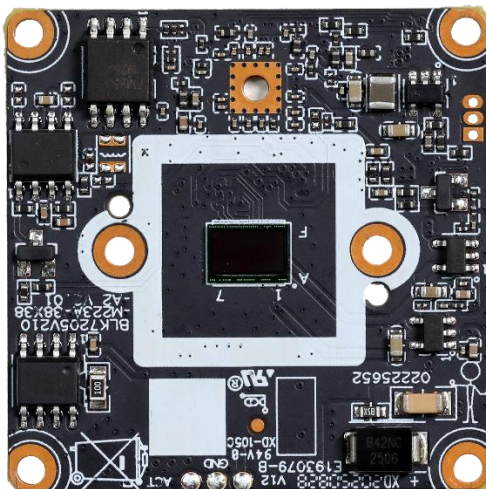


IVG-G5J Module Specification

Version: 20260117



Introduction

IVG-G5J is a 5MP HD AI Intelligent IP Camera Module, 5MP image, all noise free, full color at night, support human shape detection, face detection, support H.265AI coding, mainly used in night vision Ultra HD video surveillance camera.

Main Features



CMOS



H.265AI



AI Noise Reduction



Human Detection



Face Detection



Lightning Protection



Automatic ICR



NPU

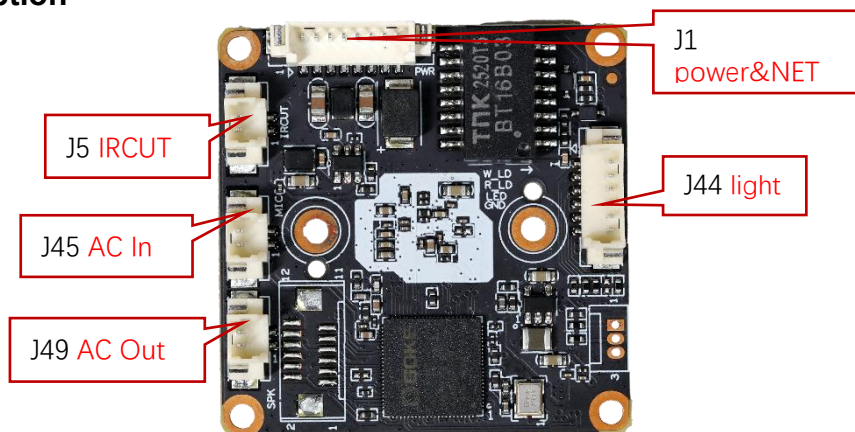
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1. Product Parameters

	Model	IVG-G5J
Module	System structure	Embedded RTOS,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: 2880*1616@15fps,2560*1440@20fps,2304*1296@20fps,1920*1080@25fps; sub-stream: 800*448@25fps;
	Shutter	1/50(1/60) s to 1/10,000s
	Lens	N/A
	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 input, MIC: Selection range -28dB~-36dB, -33dB is recommended. 1 Output, Speaker: 8Ω2W is recommended.
	Network interface	1*RJ45 10/100M adaptive Ethernet port; support RTSP/FTP DHCP/NTP/UPnP etc
	Extension interface	N/A
	Singal interface	One IR-CUT interface
	PTZ	N/A
	Motor interface	N/A
	Alarm I/O	0/1
	WIFI interface	N/A (Extended support)
	Reset interface	N/A
	SD Card	N/A (Extended support)
Intelligence	Intelligence analysis	supports human detection, face detection, and can be customized for other smart features.
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℃ ~ 65℃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
	2	IR-CUT	IR-CUT
J44	1	W_LED_GPIO0_4	White light control
	2	R_LED_GPIO2_0	Infrared light signal control
	3	LED/GPIO6_5	LED control
	4	GND	GND
	5	IRIN	IRIN
	6	IO/GPIO6_4	Reserved IO
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	
J49	1	SPKN	Audio output
	2	SPKP	

3. Electrical Parameters

3.1 Absolute Electrical Parameters

Parameter	Description	Min	Max	Unit
Ts	Storage temperature	-40	150	℃
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