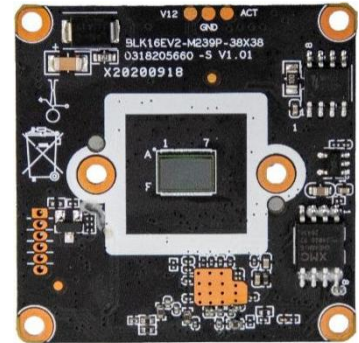# IVG-G4
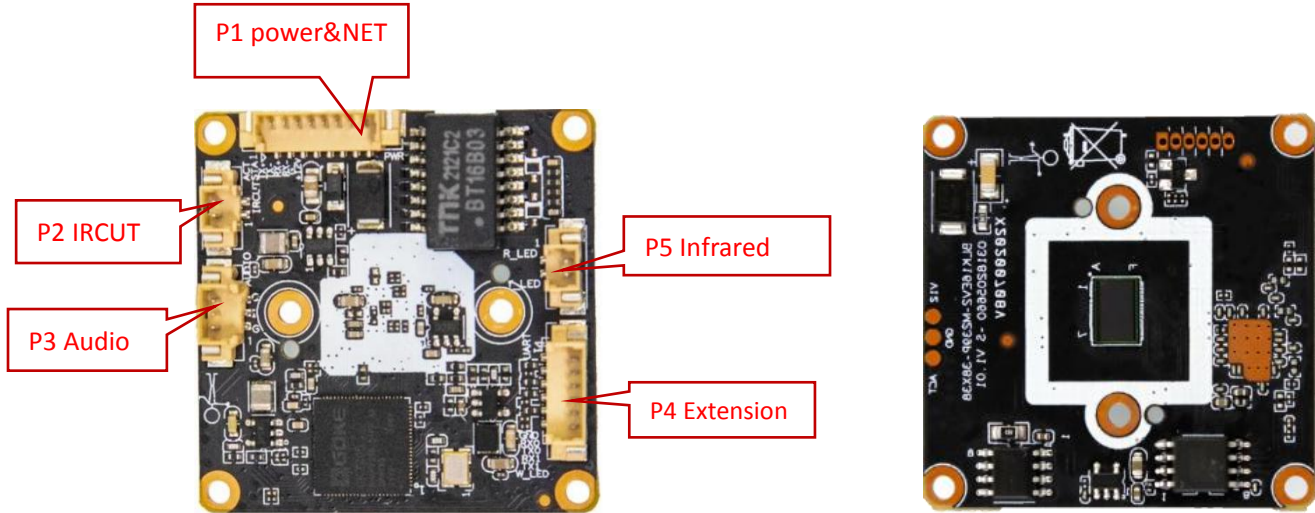## 4.0M Low illumination H.265 AI IP Camera Module

Features:

➢ Supporting human detection, face detection, and support to customize other intelligent functions

➢ 4.0MP HD Black light illumination resolution,clear and fine images;

➢ Support 2D/3D noise reduction,digital wide dynamic;

➢ Advanced H.265+ (Compatible with H.265/H.264) video compression,Super low rate,high definition quality of image;

➢ Professional anti-lightning,conform to GB/T17626.5 and IEC61000-4-5。

➢ Support ONVIF;access third party;

➢ Support various mobile monitoring(iPhone,Android);

➢ Provide web、CMS、center platform management software MYEYE,provide SDK development

➢ Support cloud technology,easy to achieve network penetration,fro in-line and alarm information pushed

Parameters：

Model	IVG-G4
System structure	Embedded RTOS,dual-core 32bit DSP(GK7205V210),pure hard compression ,watch dog
Sensor	4.0M 1/2.8"SC5239S Low illumination CMOS sensor,color 0.01Lux@F1.2,black/white 0.001Lux@F1.2
Video compression	H.265 +(Compatible with H.265/H.264) support dual stream,AVI;0.1M~8Mpbs variable;1~30f/s variable
Image output	Main stream:2560*1440@18fps, 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, and the voltage is 3.5V-6V
Noise reduction	Support 2D/3D
Wide dynamic	Support digital Wide dynamic
Auto iris	N/A
Audio compression	G.711,support bidrectional talk,audio&video synchronization
Audio interface	1ch input,level:2Vp-p,impedance:1kΩ,support sound pick-up input;1ch output,impedance:16Ω,30mw,support microphone
Network interface	1*RJ45 10/100M adaptive Ethernet port; support RTSP/FTPDHCP/NTP/UPnP etc
Extension interface	Support external audio power amplifier, white light signal control, UART to expand other functions
Singal interface	One photo resistance interface,one IR-CUT interface ,support photo resistance signal and IR-CUT links to IR
PTZ	N/A
Motor interface	N/A
Alarm I/O	N/A
WIFI interface	N/A
Reset interface	N/A
SD Card	N/A
Reliability	Comprehensive lightning protection, 7 * 24 hours 65 ℃ high temperature stable and reliable testing
Intelligence analysis	Supporting human detection, face detection, and support to customize other intelligent functions
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 JPEG capture；united remote client monitoring sofaware、MYEYE;perfect SDK;
ONVIF	Support
Mobile monitoring	Support multiple mobile monitoring（iOS，Android）
Power	DC12V/2A input, power consumption:≤3W,
Dimension	38mm*38mm
Other	Support POE power supply, not support any custom,The drive voltage of the light board is at 3.3V

P1 power&NET

P2 IRCUT

P3 Audio

P5 Infrared

P4 Extension

sign	Socket	Specific No	Interface Description	Function
P1	J1	1	ACT_LED	Indicator light
		2	STA_LED	Indicator light
		3	ETHTX+	ETHTX+
		4	ETHTX−	ETHTX−
		5	ETHRX+	ETHRX+
		6	ETHRX−	ETHRX−
		7	GND	GND
		8	+12V	12V input
P2	J5	1	IR−CUT	IR−CUT
		2	IR−CUT	IR−CUT
P3	J40	1	GND	GND
		2	AC_IN	Audio input
		3	AC_OUT	Audio output
P4	J44	1	GND	GND
		2	UART0_RXD	Debug Serial port accept
		3	UART0_TXD	DebugSerial port send
		4	UART1_RXD	Serial port accept
		5	UART1_TXD	Audio IO port
		6	W_LED	White light control
P5	J41	1	R_LED	Infrared light signal control
		2	Y_LED	Infrared light control