

HM50C01 GK7205V300+335















The HM50C01 is a cost-effective 5MP surveillance network camera module designed for both indoor and outdoor use. It features a 1/2.8" Sony IMX335 STARVIS sensor and is powered by the GOKE GK7205V300 SoC, equipped with 1Gb of RAM. It support network video and analog video synchronous output. In terms of extended I/O capabilities, it supports dual light source illumination, as well as microphone and speaker connections, enabling two-way audio and additional interfaces.

For secondary development, the HM50C01 includes two set UART interfaces and provides SDK for Windows, Linux, and Android. It also supports the ONVIF standard protocol, along with OpenIPC and FPV firmware. This makes it highly convenient for secondary development and allows for quick integration into your projects.

Key Features:

- 1/2.8" 5MP CMOS Sony IMX335
- Maximum resolution up to 2592x1944@30fps
- True Day/Night, 3D DNR, Digital WDR
- Supports network and CVBS analog video output
- Support humanoid detection, motion detection
- Support the Tuya P2P on Android, IOS(Not Default)
- Support two way audio, Built-in audio amplifier function
- Support ONVIF and HIK/XM protocol
- Support TCP/IP/HTTP/NTP/DHCP/SMTP/RTSP
- Open SDK(Linux, Windows), CGI, easily to be integrated with other digital systems
- Support OPENIPC development

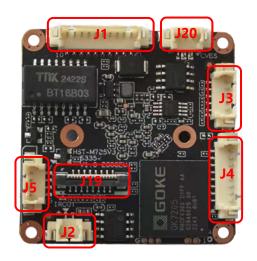


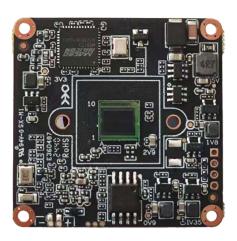
Technical Specifications:

Image Sensor			
Sensor	1/2.8" 5MP Sony IMX335 CMOS		
Maximum Resolution	2592x1944@30fps		
Minimum Illumination	0.02lux @F1.0(Color) / 0.01 lux@F1.0 (B/W)		
Camera			
AGC	Auto/Manual		
S/N Ratio	≥50dB (AGC OFF)		
Shutter Speed	1/2 - 1/20 ,000s,Slow shutter support		
Wide Dynamic Range	Digital WDR≥73.7dB		
Exposure Mode	Auto/ Manual/shutter mode		
AWB	Yes		
Day & Night	External control(IR Cut Filter)		
Light Control	Support IR/White/dual light, three mode independent control		
Compression			
Video Compression	H.265/H.264 Main Profile /M-JPEG		
Audio Compression	G711U, G711A,PCM		
Image Resolution			
Main Stream	2592x1944/1920x1080@30fps		
Sub Stream	640x480/640x360@30fps		
General Protocol			
Network Protocol	TCP/IP/HTTP/NTP/DHCP/SMTP/RTSP/P2P		
ONVIF protocol	Yes		
Compatibility	Support HIK/XM protocol		
P2P			
Support TUYA APP	Support for Tuya APP (Android, IOS) (Not Default)		
Function	Support for Taya Art (Anarola, 105) (Not Beladit)		
Web Configuration	Yes		
OSD	Yes (Web OSD)		
Motion Detection	Yes		
Humanoid Detection	Yes		
Reset	Support cable reset button(optional)		
Amplifier	Built-in amplifier		
Interface			
Wired	1ch 10/100 Base Ethernet,RJ45 interface		
CVBS	Support		
Audio	Microphone input/output		
Alarm	2 ports input, 2 ports output		
UART	Support		
USB	Support		
TF Card	Optional and max. 512G (reserved extended SD slot)		
Other			
Power Supply	12VDC		
Size/Weight	38x38mm /10g		
Operation Temperature	-30°C~60°C		
Working Humidity	≤90%RH(non-condensing)		



Interface Pin Definition:





Interface	pin	Pin name	Functional parameter
J1	1	12VDC	DC power input, voltage range 9V-13.8V
	2	GND	GND
	3	ACT_LED	Network indicator light interface
	4	SYS_RST	Restore factory settings LOW valid
	5	PWR_TD+	Adaptive network interface, physically
			receiving/transmitting signals (differential +)
	6	PWR_TD-	Adaptive network interface, physically
			receiving/transmitting signals (difference -)
	7	PWR_RD+	Adaptive network interface, physically
			receiving/transmitting signals (differential+)
	8	PWR_RD-	Adaptive network interface, physically
			receiving/transmitting signals (difference -)
	9	UART1_TXD	Serial communication, sending TX
	10	UART1_RXD	UART1, receive RX
J2	1	IR-CUT+	IRCUT signal +
	2	IR-CUT —	IRCUT signal-
	1	Alarm_in1	Alarm input 1
	2	Alarm_in2	Alarm input 2
J3	3	GND	GND
	4	Alarm_out1	Alarm relay output 1
	5	Alarm_out2	Alarm relay output 2
	1	MIC+	MIC+
	2	MIC-	MIC-
J4	3	SPK+	SPK+
	4	SPK-	SPK-
	5	GDS_IN	Hard light sensitive infrared
	6	IO_WL	Soft photosensitive white light
	7	IO_IR	Soft photosensitive infrared
	8	GPIO	8 preview GPIO (PWM not supported)
	1	3.3V	3.3V power supply
	2	USB_DM	data D-
J5	3	USB_DP	data D+
	4	GND	GND
J19	1-16	Expand	Expand TF card storage,RS485,Reset function
J20	1	CVBS	CVBS analog video output
	2	GND	GND
	3	DC 12V	DC power input, voltage range 9V-13.8V (reserve)