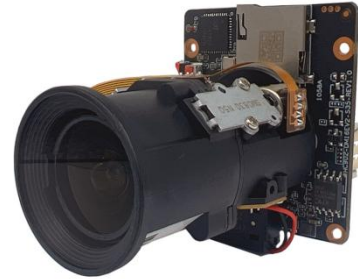


## IM50Z35W-5X 5MP 5X Automatic zoom WIFI network module



The IM50Z35W-5X 5 million 5x WIFI module is based on the HiSilicon embedded coding platform and adopts a 1/2.8 "low illumination 5 million CMOS image sensor, which has good low illumination effect and wide dynamic effect, and the maximum output resolution can reach 2592X1944@20fps. The image is clearer and more delicate. Suitable for scenes that require high-definition image effects.

Support wireless WIFI or wired RJ45 networking, convenient and fast.

Support graffiti or Denghong APP for remote viewing of videos anytime, anywhere, safe and easy to use.

This product has good protocol compatibility, supports standard ONVIF2.4 protocols, Hikvision, Xiongmai protocols, etc., and can provide standard SDKs for quick integration by customers.

Support wireless WIFI or wired RJ45 networking, convenient and fast.

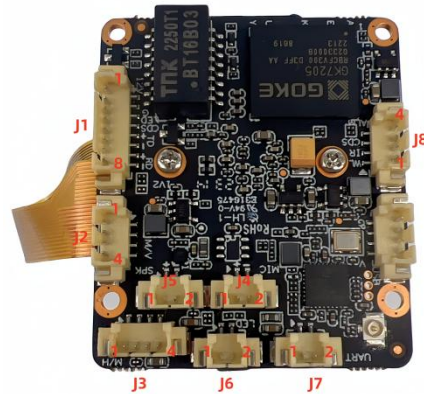
Support graffiti or Denghong APP for remote viewing of videos anytime, anywhere, safe and easy to use.

This product has good protocol compatibility, supports standard ONVIF2.4 protocols, Hikvision, Xiongmai protocols, etc., and can provide standard SDKs for quick integration by customers.

- 1/2.8 "5.0M IMX335 CMOS image sensor;
- Minimum illumination 0.05Lux@F1.2 Colorful, 0.01Lux@F1.2 Black and white;
- 5x optical synchronous focusing, with clear images throughout the zoom process;
- Two sets of motor drives, capable of directly driving a 12V motor
- Built in audio amplifier, can be directly connected to the speaker, and supports bidirectional voice
- Supports multiple night vision modes with dual light sources/single infrared light
- Intelligent 2D and 3D noise reduction algorithms, AE exposure algorithms, clean and refreshing night scenes;
- Support H.265 Main profile/H.264 Main profile/M-JPEG encoding, achieving lower bitstream high-definition image quality;
- Maximum resolution achievable 2592X1944@20fps
- Supports 1 mobile detection area and 4 privacy areas;
- Support for mobile detection and SMTP and FTP alarm functions
- Supports P2P access on Android and iOS mobile phones, allowing users to view images anytime, anywhere
- Supports SD card storage, with a maximum scalability of 128GB;
- Supports standard ONVIF 2.4 protocol, RTSP protocol, HIKVISION, and XM private protocols;
- Seamless integration with PC software platforms such as HIKVISION IVMS-4200, XM CMS, TOPSEE, and NVR backend;
- An open system that provides Linux, Windows SDK development kits, and CGI protocol for rapid secondary development.

## Technical specifications:

<b>Image sensor</b>	
Sensor	1/2.8" 5MP Pixel Progressive Scan CMOS
Maximum resolution	2304x1296@20fps
Minimum illumination	0.05Lux@F1.2(Color mode);0.01Lux@F1.2(Black and white)
<b>Shot</b>	
Focal length	2.8-12mm, F1.7-F3.0;
Viewing angle	135°(nearfocus)~34°(farfocus)
<b>Audio frequency</b>	
Input	Passive MIC
output	Built in amplifier for direct speaker connection
<b>Function</b>	
Lamp control mode	Infrared/White/Dual lamp mode
Support	AI humanoid detection/Motion detection/human detection
Alarm push	Mobile app/SMTP/FTP alarm push
P2P	Android and iOS
Reset	Support hardware reset and unbinding P2P function
<b>Local storage</b>	
Storage	TF card storage ( up to 128GB )
Local Storage	High definition/standard definition options
Recording method	Manual recording, alarm recording
View recording	Support remote video play back
<b>General Protocol</b>	
Network protocol	TCP/IP, HTTP, NTP, DHCP, UDP, SMTP, RTP, RTSP,ARP
ONVIF protocol	Standard ONVIF
Compatibility	Support access to platforms such as Hikvision,XM CMS,
<b>Network Interface</b>	
Wred	10/100M RJ45 network interface
WIFI	2.4G, IEEE802.11 b/g/n protocol, supporting WEP, WPA, WPA2
<b>Other</b>	
Power supply	12VDC@0.20A
Specifications	Encoding motherboard: 38x44mm, overall height: 60mm
Operation temperature	-30°C~60°C
Working humidity	0% -90% RH (non condensing)



Interface	pin	Pin name	Functional Parameter
J1	1	12VDC	12Vpower input
	2	GND	Power supply ground
	3	LED	PWK connected to 4G board
	4	RST	RESET
	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 -)
J2	1	ZB+_V	Vertical motor interface
	2	ZB-_V	
	3	ZB+_V	
	4	ZB-_V	
J3	1	ZB+_H	Horizontal motor interface
	2	ZB-_H	
	3	ZB+_H	
	4	ZB-_H	
J4	1	MIC+	Mic connector, connecting the positive electrode of the microphone
	2	MIC-	Mic head interface, connecting to Mic head ground
J5	1	SPK+	Horn positive pole
	2	SPK-	Horn negative pole
J6	1	GPIO3_5	(Connected to 4G control PWER KEY)
	2	GPIO3_4	(Connected to 4G control PWER KEY)
J7	1	UART1_RXD	Infrared laser lamp (high beam) control pin
	2	UART1_TXD	
J8	1	WLED_EN	White light control enable foot output
	2	IR-LED_EN	Infrared light control enable pin output
	3	CDS	Photosensitive, high and low level input
	4	Alarm LED	Warning light