

SPECIFICATIONS

IP ZOOM CAMERA

4K(8MP)

H.265 / H.264



85Z21IP6

1. MODULE DIMENSION



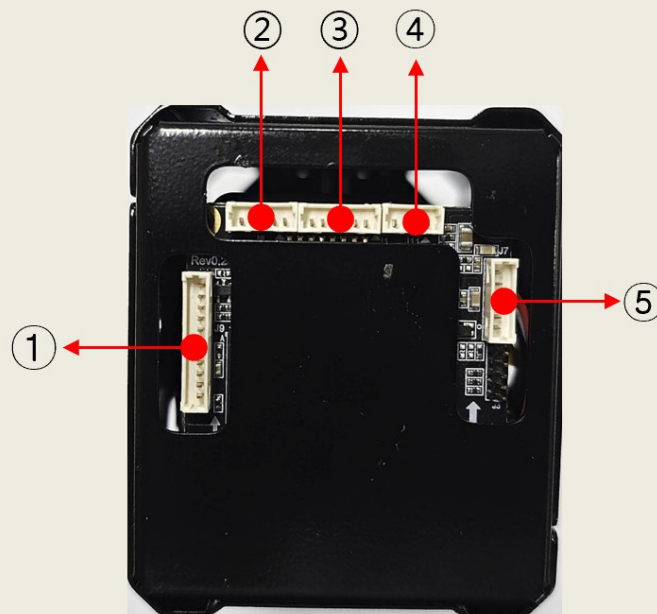
① 11p Connector: SD
J9 : Molex, P/N : 53047-1110

② 5p Connector: Audio_IO / Alarm_IO
J8 : Molex, P/N : 53047-0510

③ 6p Connector: Power & Ethernet
J1 : Molex, P/N : 53047-0610

④ 4p Connector: DC12V_OUT / IR_LED
J11 : Molex, P/N : 53047-0410

⑤ 6p Connector: UART3 / EXT_UART
J7 : Molex, P/N : 53047-0610



2. CONNECTOR SPECIFICATIONS

J9 : SD, Molex P/N : 53047-1110		
Pin No.	Pin Name	Description
1	DAT2	SD data2
2	DAT3	SD data3
3	CMD	Command signal
4	PWR	Power +3.3V
5	CLK	Clock signal
6	GND	GND
7	DAT0	SD data0
8	DAT1	SD data1
9	CD	Card Detect signal
10	WP	Write Protection signal
11	FACTORY SWITCH	Factory reset signal input

J8 : AUDIO/ALARM, Molex P/N : 53047-0510		
Pin No.	Pin Name	Description
1	AUDIO_IN	Audio Line_In signal
2	AUDIO_OUT	Audio Line_Out signal
3	GND	GND
4	ALARM_IN_1	Alarm In_1 signal
5	ALARM_OUT_1	Alarm Out_1 signal

J1 : POWER & ETHERNET, Molex P/N : 53047-0610		
Pin No.	Pin Name	Description
1	+12V	DC +12V input
2	PHY_TX+	Ethernet TX+ signal output
3	PHY_TX-	Ethernet TX- signal output
4	PHY_RX+	Ethernet RX+ signal input
5	PHY_RX-	Ethernet RX- signal input
6	GND	GND

J11 : IR_LED, Molex P/N : 53047-0410		
Pin No.	Pin Name	Description
1	DC +12V	DC +12V Power output
2	IR_LED_INPUT	IR_LED CDS signal input from IR board
3	GND	GND
4	IR_LED ON/OFF OUTPUT	IR_LED_On/Off TTL signal output to IR board

J7 : UART, Molex P/N : 53047-0610		
Pin No.	Pin Name	Description
1	FACTORY SWITCH	Factory reset signal input
2	UART3 TX	UART3_Tx signal
3	UART3 RX	UART3_Rx signal
4	EXT_UART TX	EXT_UART_Tx signal
5	EXT_UART RX	EXT_UART_Rx signal
6	GND	GND

3. MODULE SPECIFICATIONS

SENSOR	
Image Sensor	Sony IMX778-AQR1-C, 1/2.8", RGB Bayer Array CMOS Sensor
Total Number of Pixels	3856(H) x 2228(V) approx. 8.59M pixels
Scanning Mode	Progressive Scan
LENS	
Focal Length	5.33 ~ 107.00 mm±5%(21X Zoom)
F No.	F1.65(Wide) ~ F3.8(Tele)±5%
Image Format	1/2.8" inch
Field of View	H54.26(Wide) ~ H2.66(Tele)
	V41.26(Wide) ~ V2.00(Tele)
	D66.42(Wide) ~ D3.30(Tele)
CAMERA	
High Dynamic Range	DOL HDR
Day and Night Mode	Automatic, Day, Night, External Sync
Noise Reduction	2D-NR, 3D-NR
Auto Exposure Mode	Automatic, Manual
Shutter Speed Control	Min. 1/100,000 sec ~ Max. 1/2 sec
Gain Control	Min. 1.0 ~ Max. 72
Auto White Balance Mode	Automatic, Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Manual
On Screen Display	On/Off
Back Light Compensation	On/Off
High Light Compensation	On/Off
Image Effect	Mirror, Flip
Privacy Mask	Max.8 Area Selection
Tamper	On/Off
Video Motion Detection	Max.4 Area Selection
Corridor Format	90°/270°
Lens Distortion Compensation	On/Off
<i>Artificial Intelligence (Optional)</i>	<i>LPR, Person, Vehicle, Motorcycle (Tentative)</i>
NETWORK	
Video Compression	H.265 Main profile, H.264(High, Main, Base line profile), MJPEG
Video Resolution	3840x2160, 2592x1944, 2560x1920, 2048x1536, 1920x1440, 1600x1200, 1280x960, 800x300, 640x480, 480x360
Video Frame Rate	Up to 30fps@3840x2160p
Video Streaming	Simultaneously H.265 and MJPEG (Multi Streaming) or Simultaneously H.264 and MJPEG (Multi Streaming) Independent Frame Rate and Bandwidth Control, VBR/CBR Mode
Audio Streaming	Two way(G.711)
FTP Uploading	MJPEG Still Image
Event In	Onboot/Trigger/Network Loss/Tampering/Motion
Event Out Notification	E-mail, FTP
Login Authority	Administrator, Operator, Guest
Event Buffering	FTP : Pre/Post Event Time: 0~10sec, FPS: 1~2 fps
Manual Trigger	Still Image Capture
Security	Multi User Authority, IP Filtering, HTTPS
Network Time Sync	Synchronize Computer/NTP Server, Manual

Software Reset	Restart, Reset, Factory Default
Auto Recovery	Backup, Restore
Remote Upgrade	Using Web Browser
Protocols	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf
Client Software	Built-In Web, ONVIF Compatible 3rd Party VMS
Max. User Connection	10 Users
SDK Support	API, ONVIF Profile S/T Compliant
EXTERNAL IN/OUT	
Ethernet Tx/Rx	RJ-45(10/100Base-T)
IR_LED Control	IR_LED Control On/Off
Day & Night Control	IR_Cut_Filter Exchange
Iris Control	DC-Iris
Alarm Control	Alarm-In 1/Alarm-Out 1
SD Card	SDHC/SDXC
Audio	Line-In/Line-Out
UART	Uart Tx/Rx
OPERATION ENVIRONMENTS	
Operating Humidity	0~90% (non-condensing)
Operating Temperature	0°C~ +50°C
Power Supply	DC12V
Power Consumption	TBD
Dimension	TBD
Weight	TBD