



skoopia



**23Z36IP5-LL**



## 1. DIMENSION

1 2p Connector: Power  
J6 : Molex, P/N : 53261-0210

2 8p Connector: Gigabit Ethernet  
J1 : Molex, P/N : 53261-0810

3 9p Connector: USB/UART  
J11 : Molex, P/N : 53261-0910

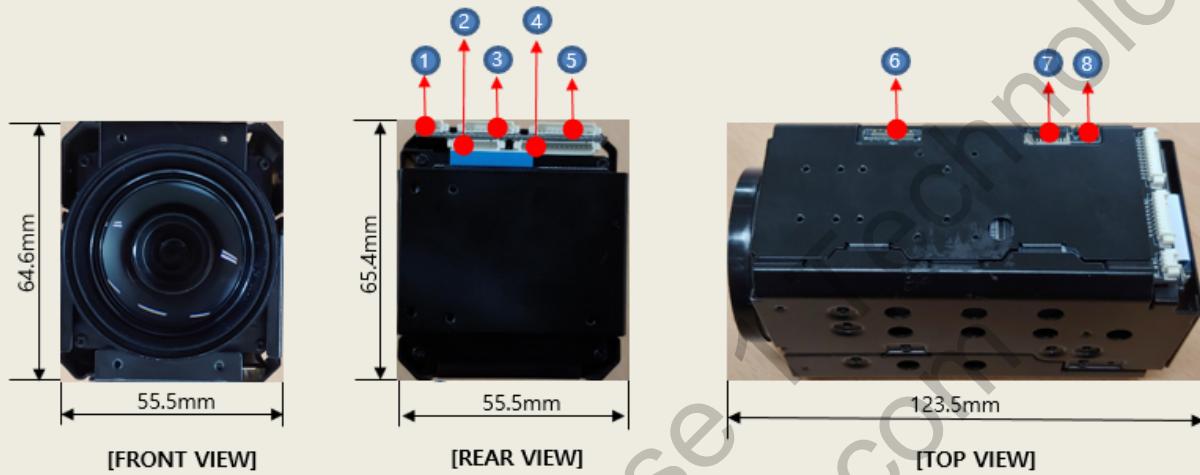
4 14p Connector: IR\_LED/Alarm/Audio  
J10 : Molex, P/N : 53261-1410

5 11p Connector: SD  
J8 : Molex, P/N : 53261-1110

6 30p Connector: Reserved  
CN2 :

7 J9 : SD\_Card\_Socket

8 J4 : 5p Header/Debugging



**2. CONNECTOR SPECIFICATIONS**

<b>J6 : POWER, Molex P/N : 53261-0210</b>		
<b>Pin No.</b>	<b>Pin Name</b>	<b>Description</b>
1	GND	GND
2	DC +12V	DC +12V Power input
<b>J1 : Network, Molex P/N : 53261-0810</b>		
<b>Pin No.</b>	<b>Pin Name</b>	<b>Description</b>
1	MDIP0	1000Base-T: BI_DA+, 10/100Base-T: TX+ signal output
2	MDIN0	1000Base-T: BI_DA-, 10/100Base-T: TX- signal output
3	MDIP1	1000Base-T: BI_DB+, 10/100Base-T: RX+ signal input
4	MDIN1	1000Base-T: BI_DB-, 10/100Base-T: RX- signal input
5	MDIP2	1000Base-T: BI_DC+, 10/100Base-T: open
6	MDIN2	1000Base-T: BI_DC-, 10/100Base-T: open
7	MDIP3	1000Base-T: BI_DD+, 10/100Base-T: open
8	MDIN3	1000Base-T: BI_DD-, 10/100Base-T: open
<b>J11 : USB/UART, Molex P/N : 53261-0910</b>		
<b>Pin No.</b>	<b>Pin Name</b>	<b>Description</b>
1	VSUB	USB power output DC5V
2	USB_DM	USB data -
3	USB_DP	USB data +
4	GND	GND
5	UART1_RX	Serial data_RX_1
6	UART1_TX	Serial data_TX_1
7	UART2_RX	Serial data_RX_2
8	UART2_TX	Serial data_TX_2
9	GND	GND



<b>J10 : IR_LED/ALARM/AUDIO, Molex P/N : 53261-1410</b>		
<b>Pin No.</b>	<b>Pin Name</b>	<b>Description</b>
1	DC +12V	DC +12V Power output
2	IR_LED_INPUT	IR_LED CDS signal input from IR board
3	IR_LED ON/OFF OUTPUT1	IR_LED_On/Off TTL signal output to IR board_1
4	IR_LED ON/OFF OUTPUT2	IR_LED_On/Off TTL signal output to IR board_2
5	GND	GND
6	ALARM_IN1	Alarm In signal_1
7	ALARM_IN2	Alarm In signal_2
8	ALARM_OUT1	Alarm Out signal_1
9	ALARM_OUT2	Alarm Out signal_2
10	AUDIO_IN	Audio Line_In signal
11	AUDIO_OUT	Audio Line_Out signal
12	LED	Link/Act indication output
13	CVBS	Composite signal output
14	GND	GND
<b>J8 : SD, Molex P/N : 53261-1110</b>		
<b>Pin No.</b>	<b>Pin Name</b>	<b>Description</b>
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 signal



**3. SPECIFICATIONS**

<b>LENS</b>	
Focal Length	6.0 ~ 210 mm±5%
F No.	F1.5±5%(Wide) ~ F4.8±5%(Tele)
Image Circle	1/1.8" inch
Type	36x Day & Night Zoom Lens
Field of View	H56.5°(W) ~ V33.6°(W)
<b>IMAGE</b>	
Image Sensor	Sony IMX385LQR, 1/2" 2.17Megapixel RGB Bayer Array CMOS Sensor
Number of Effective Pixels	1945(H) x 1097(V) approx. 2.13M pixels
Scanning Mode	Progressive Scan
<b>CAMERA</b>	
High Dynamic Range	DOL HDR (Digital Over Lab High Dynamic Range)
Day and Night Mode	Automatic, Day, Night
Noise Reduction	2D-NR, 3D-NR
Auto Exposure Mode	Automatic (Priority: Frame rate/Low noise), Manual
Shutter Speed Control	Automatic: Min. 1/135,000 sec ~ Max. 1/60 sec Manual: Min. 1/10,000 sec ~ Max. 1/10 sec
Gain Control	Automatic: Min. 1.2dB ~ Max. 54dB Manual: Min. 1.2dB ~ Max. 54dB, Default 1.2dB
Auto White Balance Mode	ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual
Digital Zoom	16x
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°
Defog	On/Off
Lens Distortion Compensation	On/Off
Digital Image Stabilization	On/Off
Video Content Analysis	Line Cross / Field Intrusion / Appear / Disappear



<b>NETWORK</b>	
Video Compression	H.265 Main profile, H.264(High, Main, Base line profile), MJPEG
Video Resolution	1920x1080(Full-HD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA)
Video Frame Rate	Up to 60fps@1920 x 1080p
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: 0~30sec, 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 Compliant
<b>EXTERNAL IN/OUT</b>	
Ethernet Tx/Rx	RJ-45(10/100/1000Base-T)
IR_LED Control	IR_LED Control On/Off
Day & Night Control	IR_Cut_Filter Exchange
Iris Control	DC-Iris
Alarm Control	Alarm-In 2/Alarm-Out 2
SD Card	SDHC/SDXC
Audio	Line-In/Line-Out
USB	USB 2.0
CVBS	NT/PAL Composite Out



<b>OPERATION ENVIRONMENTS</b>	
Operating Humidity	0~90% (non-condensing)
Operating Temperature	0°C~ +50°C
Power Supply	DC+12V
Power Consumption	5W(without IR_LED)
Dimension	55.5(W) x 65.4(D) x 123.5(H)mm
Weight	395g

Compliments of Phase 1 Technology  
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