

3. CONNECTOR SPECIFICATIONS

J10 : DAY & NIGHT, Molex, P/N : 53047-0210

Pin No.	Pin Name	Description
1	Motor -	Night Mode : Active Low
2	Motor +	Day Mode : Active High

J16 : DC IRIS, Molex, P/N : 53047-0410

Pin No.	Pin Name	Description
1	Drive -	Normally connect to GND
2	Drive +	Iris motor drive
3	Control -	Iris motor control -
4	Control +	Iris motor control +

J20 : IR_LED, Molex, P/N : 53047-0310

Pin No.	Pin Name	Description
1	DC +12V	DC +12V Power output
2	IR_LED_INPUT	IR_LED_On/Off TTL signal input from IR board
3	GND	GND

J21 : ZOOM/FOFUS, Molex, P/N : 53047-0810 (Optional)

Pin No.	Pin Name	Description
1	Focus A-	Focus In-

2	<i>Focus A+</i>	<i>Focus In+</i>
3	<i>Zoom A-</i>	<i>Zoom In-</i>
4	<i>Zoom A+</i>	<i>Zoom In+</i>
5	<i>Zoom B+</i>	<i>Zoom Out+</i>
6	<i>Zoom B-</i>	<i>Zoom Out-</i>
7	<i>Focus B-</i>	<i>Focus Out-</i>
8	<i>Focus B+</i>	<i>Focus Out+</i>

J1 : Network, Molex, P/N : 53047-0810

Pin No.	Pin Name	Description
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

J17 : 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 signal

J12 : 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	Alarm In signal
5	ALARM_OUT	Alarm Out signal

J19 : NT/PAL, Molex, P/N : 53047-0210

Pin No.	Pin Name	Description
1	NT/PAL	NT/PAL composite output signal
2	GND	GND

J22 : USB, Molex, P/N : 53047-0410

Pin No.	Pin Name	Description
1	VSUB	USB Power +5.0V Out for USB Device
2	DM	USB Data -
3	DP	USB Data +
4	GND	GND

J24 : POWER, Molex, P/N : 53047-0210

Pin No.	Pin Name	Description
1	GND	GND
2	DC +12V	DC +12V Input

4. MODULE SPECIFICATIONS

LENS (Optional)

Focal Length 4.06~10.02mm±5%

F No. 1.82~2.7±5%

Image Format 1/1.8"

Dimension(mm) Φ 46.79 x 44.92 mm

Field of View H90° x V49.4° ~ H37.6° x V21.5°

IMAGE

Image Sensor Sony IMX226CQJ-C 1/1.7" 12.76Megapixel
RGB Bayer Array CMOS Sensor

Number of Effective Pixels Mode 1/1.7(12M): 4,072(H) x 3,046(V)
approx. 12.40M pixels 4:3 Mode
1/1.9(4K2K): 4,152(H) x 2,174(V) approx.
9.03M pixels 17:9

Scanning Mode Progressive Scan

CAMERA

Wide Dynamic Range DOL True-WDR

Day and Night Mode Automatic, Day, Night, External

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

Auto Focus (Optional) One Push, Manual, (Automatic)

Optical Zoom (Optional) Motorized 2.46x

Optical Zoom Speed (Optional) 1~6 Steps

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

NETWORK

Video Compression H.265 Main profile, H.264(High, Main, Base line profile), MJPEG

Video Resolution 4000x3000(12M), 4096x2160(4K2K),
2592x1944(5M), 2048x1536(QXGA),
1920x1080(Full-HD), 1280x1024(SXGA),
1280x720(HD), 704x480(4CIF/NT),
704x576(4CIF/PAL), 640x480(VGA),
352x288(CIF), 320x240(QVGA)

Video Frame Up to 30fps@3840x2160p

Rate

Video Streaming Simultaneously H.265 and MJPEG (Triple Streaming) or Simultaneously H.264 and MJPEG (Triple 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 E-mail, FTP Notification

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 Synchronize Computer/NTP Server, Manual Sync

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

EXTERNAL IN/OUT

Ethernet Tx/Rx RJ-45(10/100/1000Base-T)

IR_LED Control IR_LED Control On/Off

Day & Night Control IR_Cut_Filter Exchange Control

Iris Control DC-Iris, Fixed

Alarm Control Alarm-In 1/Alarm-Out 1

SD Card SDHC/SDXC

Audio Line-In/Line-Out

Zoom Control Max. 2.46x

Focus Control One Push, Manual, (Automatic)

NT/PAL NT/PAL composite Out

USB USB 2.0

POWER DC +12V Input

OPERATION ENVIRONMENTS

Operating Humidity 0~90% (non-condensing)

Operating Temperature 0°C~ +50°C

Power Supply DC12V

Power Consumption 7W(without IR_LED)

Dimension 42.0(W) x 42.0(D) x 7.3(H)mm

Weight 15g

Specifications are subject to change without notice in advance.

