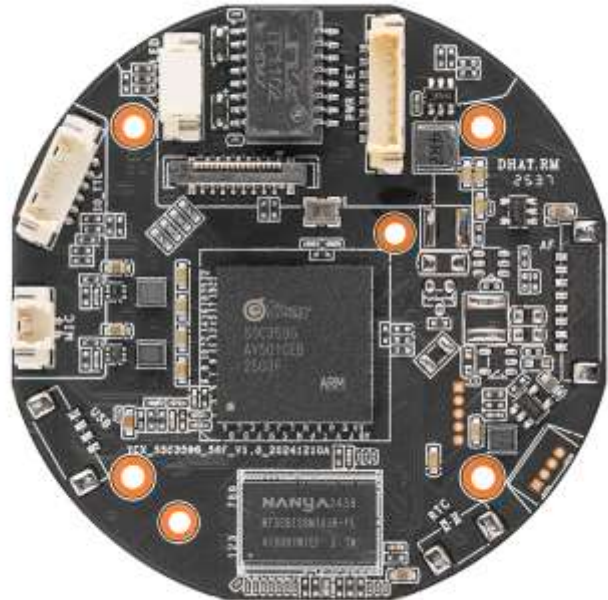
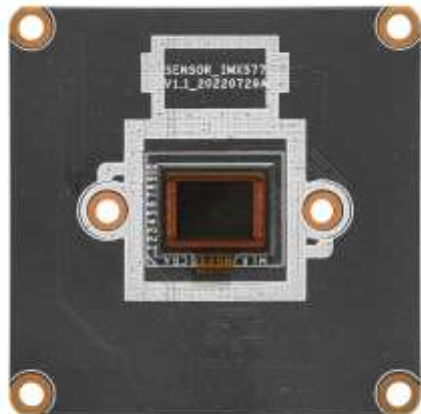


DataSheet

12MP AI IP Camera Module (Two boards)

Model NO.: N1200(SSC359G+IMX577)



Specifications



Model	N1200
Camera	
Image Sensor	1/2.3" 12MP Sony IMX577 CMOS
Soc Chip	Sigmastar SSC359G
Effective Pixels	4000(H)×3000 (V)
Exposure Shutter	AUTO/Manual: 1/10s ~ 1/8000s, Max Shutter speed adjustable
Day/Night	Auto(Active/passive/schedule)/Day/Night, switch threshold, sensitivity, anti-flicker(Auto/50Hz/60Hz)
Image Adjust	Brightness,Saturation,Sharpness,Contrast,Denoise (0-100%) adjustable
White Balance	AWB/MWB
WDR	No
Light Mode	Smart(dual-light) / IR / White light, adjustable

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Light Control	Auto/Manual, Brightness level (0-100%) adjustable
DNR	2D/3D DNR
Encode	
Video Standard	H.264/H.265/MJPEG
Video Resolution	Main Stream: 30fps@12MP(4000x3000)(default25fps)/8MP(3840x2160)/5MP(2592x1944)/4MP(2560x1440)/3MP(2304x1296)/1080P/720P Sub stream: 30fps@720P/30fps@D1(704x576)(default25fps)/(720x480)/VGA(640x480)/QVGA(640x360) *Third stream: 10fps@720P(default),30@D1(704x576)/(720x480)/VGA(640x480)/QVGA(640x360) -- (when third stream customized enabled, Face Detection and Perimeter protection will be disabled) (*Note:MJPEG max 1080P)
Video Bitrates	Sub stream: 64kbps-12Mbps Sub stream: 64kbps-2048kbps VBR/CBR , quality(1-9), GOP(1-128)
Snapshot	Main stream(HD)/Sub Stream(SD) snapshot
Image Rotation	0 / 90 / 180 / 270 degree adjustable
Border Crop	X crop, Y crop
Image Mirror	horizon / vertical / horizon&vertical adjustable
OSD Overlay	Font size(1-4), position,Time, Title, AM/PM, Color, User OSD, Alarm OSD
Privacy Mask	4 areas
Region of Interest	ROI: Each stream support 8 areas
Audio Standard	G.711-u/G.711-a/AAC, AEC
Mic	Yes
Speaker	No
Led	
IR Led	Yes
White Led	Yes
Smart Control	Yes
Lens	
Focal length	fixed Lens/AF Lens
IR-CUT fixed position	L= 20mm, ID=2.0mm
Language	
English, simplified Chinese, Chinese Traditional, Japanese, Korean, German, Polish, Italian, Turkish, Ukraine, Russian, etc.	
Smart Detection	
Motion Detection	Yes
Digital IO Alarm	1 pair Alarm-in/Alarm-out, normally open/normally close (optional)
Human Vehicle Detection	Yes, (2-20 meters)
Cross Line Detection	Yes, 4 lines
Perimeter protection	Yes, 4 areas
Face Detection	Yes, (1-5 meters)

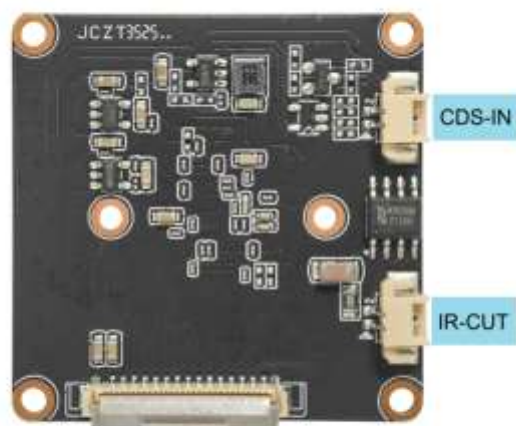
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Target Detection Type	Human Shape, vehicle, non-motor vehicle, Pet, Face (12px-1000px)
Trigger Action Linkage	Snapshot, Record, Relay(Red-blue Led flash) optional, White LED Flash, Voice siren, Micro-SD, Email, FTP, NAS storage (NFS)
Simultaneous Detection	Maximum 16 targets simultaneous detection
Storage Type	Schedule/Trigger: Micro-SD(512G) , Email, FTP, NAS(NFS)
Reset Button	Yes (with reset voice)
Network Services	
Protocol	HTTP(s)/RTSP/FTP/SMTP/DHCP/NTP/DST/RTP/RTMP/P2P/HiK/IPv4/IPv6/NFS/DDNS
IP Address Filtering	Yes (Allow list, Deny list)
P2P Mobile APP	Android, IOS
Web Access	IE, Firefox, Chrome, Edge, Safari, etc. (Windows/Linux/Mac/Chromebook/Tablet/Mobile phone)
PC Tool	Windows, Mac
ONVIF	23.12 compatible (profile S G T M)
General	
Network Port	1-RJ45, 100Mbps, POE
Power Supply	12 VDC $\pm$ 10%
Power Consumption	< 2 W
Operating Temp.	-20°C-(+60)°C, 10%-90%RH
Suggest users	5
Optional Peripheral Equipment	
IR-CUT	5-12V, 25-60Ω, ID:2.0mm
Condenser Mic	28 - 30 dB
Fill-in Led	IR/White , pwm control
Red&blue Alarm light	IO-out control
Reset button	Yes (Active Low)
AF Lens Control	Yes
Extend Board	Alarm-in/Alarm-out/Memory card/Reset

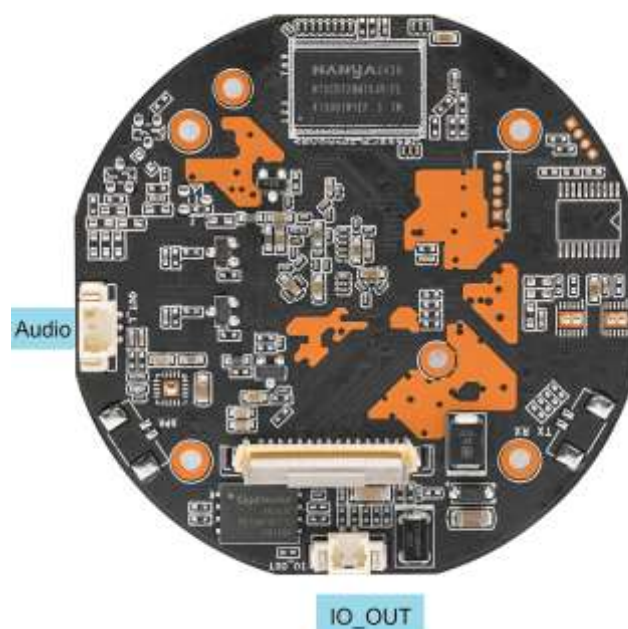
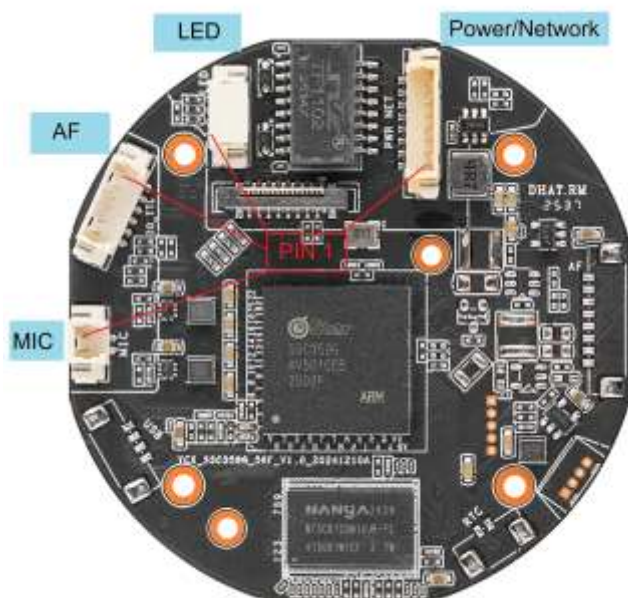
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Connection Diagram Details

Sensor board:



Encode Board:



*Connector pin pitch: 1.25mm

Connector Definition and Description

Functions	Index	Pin definition	Description
CDS-IN	1	IR_DET	CDS in (passive mode, 1.5V-12V)

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	2	GND	GND
IR-CUT	1	AOUT	IR-CUT+ (5-12V,25-60Ω)
	2	BOUT	IR-CUT- (5-12V,25-60Ω)
Power/Network	1	DC 12V+	DC 12V+ (9.5V-15V)
	2	GND	GND
	3	RJ45_6	Network_RJ6
	4	RJ45_3	Network_RJ3
	5	RJ45_2	Network_RJ2
	6	RJ45_1	Network_RJ1
	7	Reset	Reset (Active Low)
	8	LED1	Link active (3.3V)
Mic	1	MIC+	Mic (Condenser Mic)
	2	MIC-	
IO_OUT	1	IO_OUT	Red&Blue Led (3.3V)
	2	GND	GND
LED board	1	+12V	12Vout
	2	GND	GND
	3	PWM1	IR led control (0-3.3V)
	4	PWM0	White led control (0-3.3V)
Audio out	1	GND	GND
	2	L_OUT	Audio out
	3	SPK_EN	Amplifier IO (3.3V)
AF Lens	1	GND	GND
	2	UART_TX	UART_TX
	3	UART_RX	UART_RX
	4	NC	
	5	NC	
	6	SPK_EN	Amplifier IO (3.3V)
Extend Board	1	IOOUT	IO Output
	2	IOINPUT	IO Output
	3	SD_DET	SD detect
	4	SD_D1	
	5	SD_D0	
	6	GND	
	7	SD_CLK	
	8	GND	GND
	9	SD_CMD	
	10	SD_D3	
	11	SD_D2	
	12	VDD	3.3V
	13	RESET	Reset
	14	V3.3	V3.3
	15	V3.3	V3.3
	16	V3.3	V3.3

DataSheet
