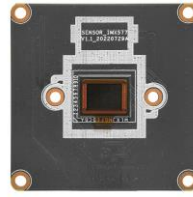
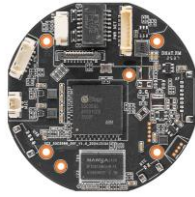


N1200

IP Camera Module — Product Specification



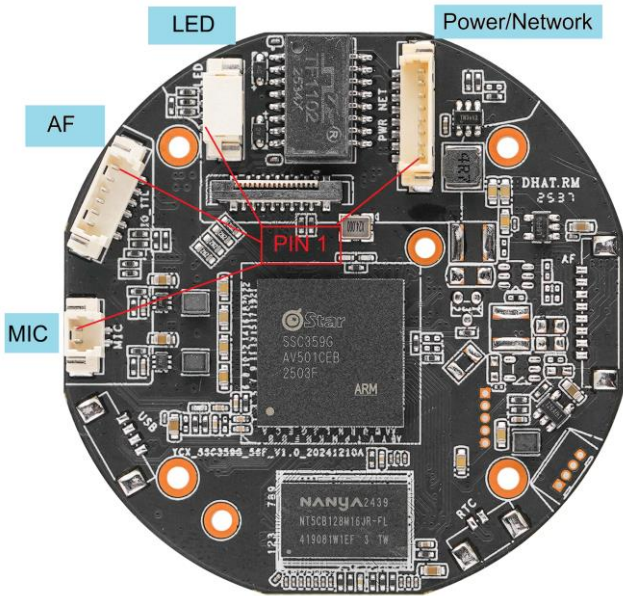
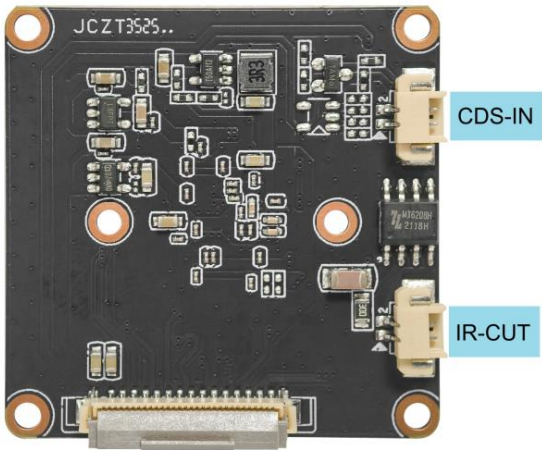
Specifications

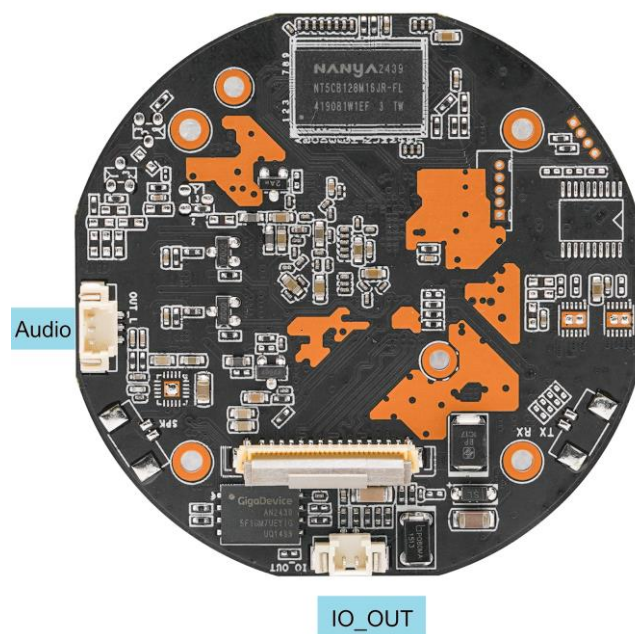
Model	N1200
Camera	
Image Sensor	1/2.3" 12MP Sony IMX577 CMOS
Soc Chip	SigmaStar SSC359G
Effective Pixels	4000(H)×3000 (V)
Exposure Shutter	AUTO/Manual: 1/10s ~ 1/8000s, Max Shutter speed adjustable
Day/Night	Auto(Active/passive/schedule)/Day/Night, switch threshold, sensitivity, anti-flicker(Auto/50Hz/60Hz)
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
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)/640x360 *Third stream: 10fps@720P(default),30@D1(704x576)/(720x480)/VGA(640x480)/640x360 -- (when third stream customized enabled, Face Detection and Perimeter protection will be disabled) (*Note:MJPEG max 1080P)
Video Bitrates	Main 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	horizontal / vertical / horizontal & 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
Led	
IR Led	External light board supported (not included)
White Led	External light board supported (not included)
Smart Control	Yes
Lens	
Focal length	fixed Lens/AF Lens
IR-CUT fixed position	L= 20mm, ID=2.0mm
Language	
Languages 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)
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	100 Mbps Ethernet via external cable; PoE requires an external PoE board
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
Microphone Interface	Supports an external microphone (not included)
Speaker Interface	No onboard speaker
External Accessories	Network cable, PoE board, microphone and speaker are external accessories and are not included with the bare module

Connection Diagrams & Pin Definitions





Connector pin pitch: 1.25 mm

Functions	Index	Pin definition	Description
CDS-IN	1	IR_DET	CDS in (passive mode, 1.5V-12V)
CDS-IN	2	GND	GND
IR-CUT	1	AOUT	IR-CUT+ (5-12V,25-60Ω)
IR-CUT	2	BOUT	IR-CUT- (5-12V,25-60Ω)
Power/Network	1	DC 12V+	DC 12V+ (9.5V-15V)
Power/Network	2	GND	GND
Power/Network	3	RJ45_6	Network_RJ6
Power/Network	4	RJ45_3	Network_RJ3
Power/Network	5	RJ45_2	Network_RJ2
Power/Network	6	RJ45_1	Network_RJ1
Power/Network	7	Reset	Reset (Active Low)
Power/Network	8	LED1	Link active (3.3V)
Mic	1	MIC+	Mic (Condenser Mic)
Mic	2	MIC-	Mic (Condenser Mic)
IO_OUT	1	IO_OUT	Red&Blue Led (3.3V)
IO_OUT	2	GND	GND
LED board	1	+12V	12Vout
LED board	2	GND	GND
LED board	3	PWM1	IR led control (0-3.3V)
LED board	4	PWM0	White led control (0-3.3V)
Audio out	1	GND	GND
Audio out	2	L_OUT	Audio out

Audio out	3	SPK_EN	Amplifier IO (3.3V)
AF Lens	1	GND	GND
AF Lens	2	UART_TX	UART_TX
AF Lens	3	UART_RX	UART_RX
AF Lens	4	NC	
AF Lens	5	NC	
AF Lens	6	SPK_EN	Amplifier IO (3.3V)
Extend Board	1	IOOUT	IO Output
Extend Board	2	IOINPUT	IO Input
Extend Board	3	SD_DET	SD detect
Extend Board	4	SD_D1	
Extend Board	5	SD_D0	
Extend Board	6	GND	
Extend Board	7	SD_CLK	
Extend Board	8	GND	GND
Extend Board	9	SD_CMD	
Extend Board	10	SD_D3	
Extend Board	11	SD_D2	
Extend Board	12	VDD	3.3V
Extend Board	13	RESET	Reset
Extend Board	14	V3.3	V3.3
Extend Board	15	V3.3	V3.3
Extend Board	16	V3.3	V3.3