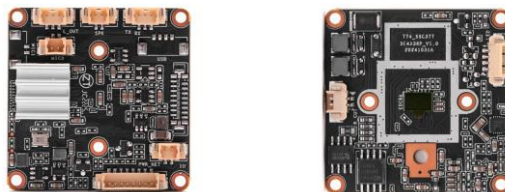


N501

IP Camera Module — Product Specification



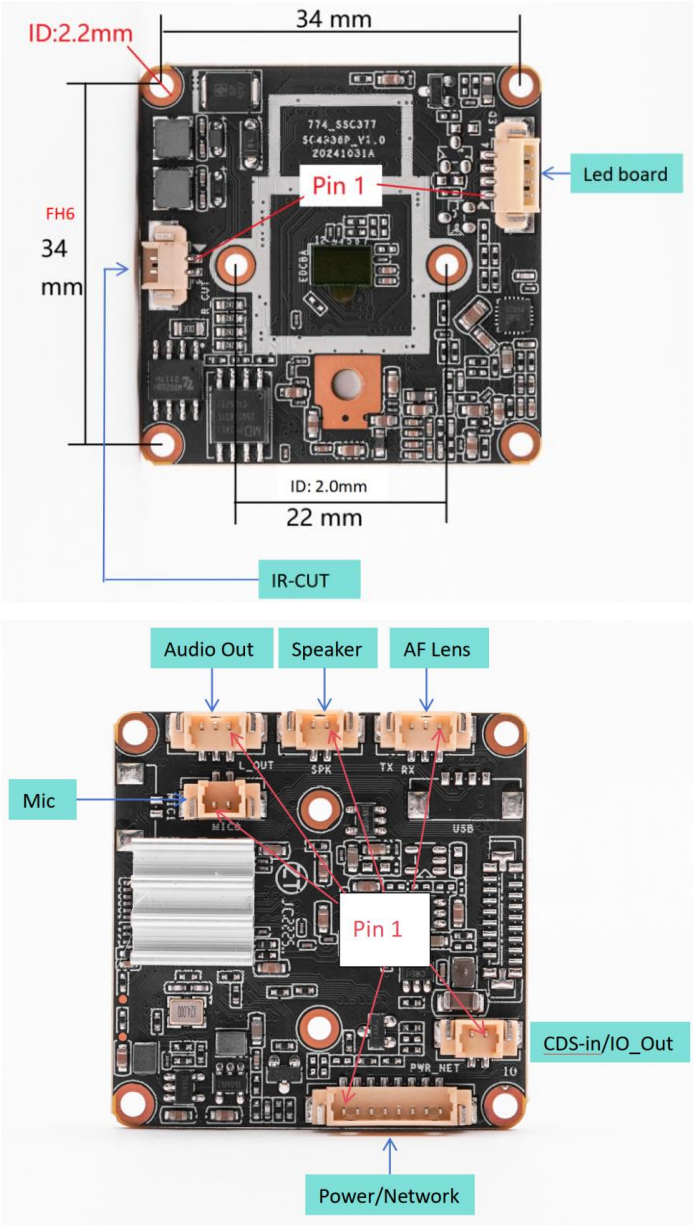
Specifications

Model	N501
Camera	
Image Sensor	1/3" SmartSens SC4336P CMOS
Soc Chip	SigmaStar SSC377
Effective Pixels	5MP
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
Video Resolution	Main Stream: 25 fps @ 5MP (default)/3MP(2304x1296)/1080P Sub stream: 30fps@640x360(default 25fps)/CIF(352x288)
Video Bitrates	Main stream: 64kbps-8Mbps Sub stream: 64kbps-2048kbps VBR/CBR , quality(1-9), GOP(1-128)
Snapshot	Sub Stream(SD) snapshot
Image Rotation	No
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
Human Vehicle Detection	Yes, (2-20 meters)
Cross Line Detection	Yes, 4 lines
Perimeter protection	Yes, 4 areas
Face Detection	No
Target Detection Type	Human Shape, vehicle, non-motor vehicle, Pet
Trigger Action Linkage	Snapshot, Record, (Red-blue Led flash) optional, White LED Flash, Voice siren, Email, FTP
Simultaneous Detection	Maximum 16 targets simultaneous detection
Storage Type	Schedule/Trigger: Email, FTP
Reset Button	Yes (with reset voice)
Network Services	
Protocol	HTTP(s)/RTSP/FTP/SMTP/DHCP/NTP/DST/RTP/RTMP/P2P/HiK/IPv4/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	2
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
Microphone Interface	Supports an external microphone (not included)
Speaker Interface	External speaker connection supported; speaker not included
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/IO_Out	1	IR_DET	CDS in (passive mode, 1.5V-12V)
CDS-in/IO_Out	2	IO_OUT	Red&Blue Led (3.3V)
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)
IR-CUT	1	AOUT	IR-CUT+ (5-12V,25-60Ω)
IR-CUT	2	BOUT	IR-CUT- (5-12V,25-60Ω)
Speaker	1	SPK+	Speaker+ (Max:2W)
Speaker	2	SPK-	Speaker- (Max:2W)
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