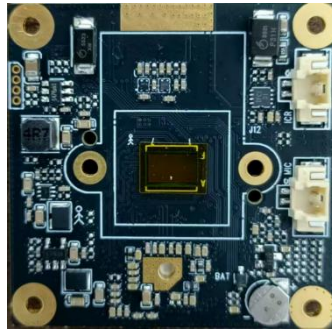


L42 4MP LPR license plate module



Features

Smart Related

Support Motion detection, alarm input and output functions

Built-in license plate algorithm detects the vehicle model and license plate , intelligently captures and saves the image, and displays it on the OSD (three car number displays) . Set up a blacklist or whitelist for license plates, and trigger alarms. I/O output expansion is also available.

Image Correlation

16:9 2560*1440 HD resolution, more stunning night vision effect;

Intelligently adjust the lighting and clearly capture the license plate ;

Support digital wide dynamic range;

Support image 2D and 3D noise reduction technology;

Support Extra-ISP night vision low-smear image algorithm;

Supports 3 image scene modes: transparent, bright, and standard, allowing you to switch image styles as you wish;

Nighttime "dark area perception algorithm " improves the visibility of dark objects in the image by 50 % without affecting the exposure of bright areas ;

Nighttime "Balanced Exposure Engine " balances exposure for near and far images when a car approaches ;

System Features

Supports H.265 intelligent encoding, which has higher encoding compression efficiency and lower bit rate while ensuring image quality;

Support Web-side operation;

Supports Onvif international standard protocol and can be connected to third-party backend/platform;

Support GB/T28181 national standard protocol;

Support GAT1400 protocol;

Interface related

Support 1-channel audio input, 1-channel audio output, and two-way voice intercom;

Intelligent soft photosensitivity, more accurate day and night switching, no photoresistor required;

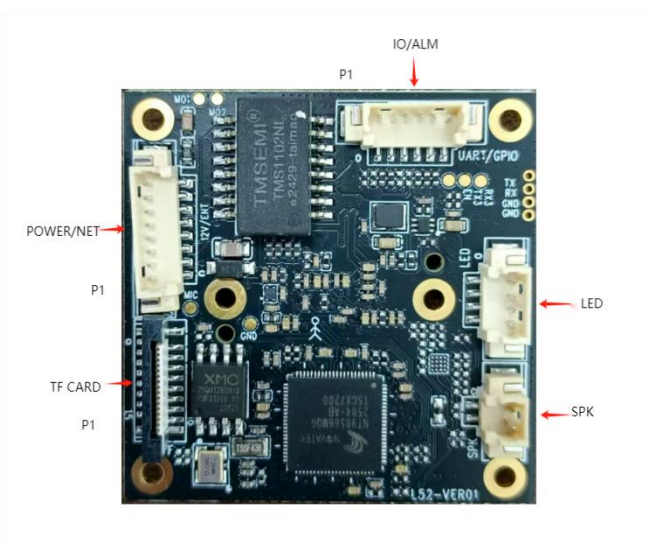
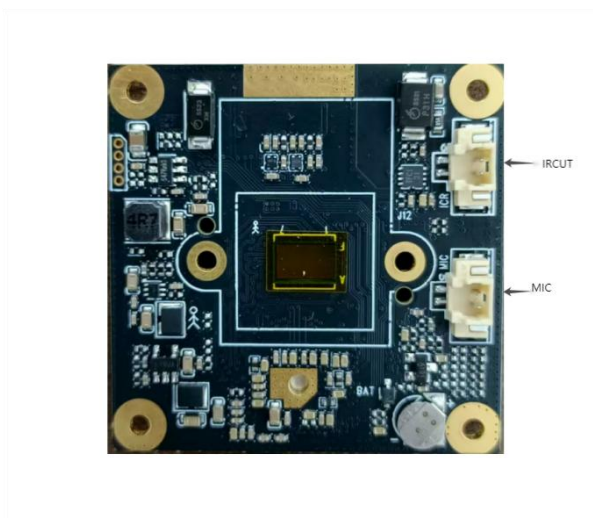
Support 10M/100M adaptive network port;

Product Specifications

Model No	L42		
Solution	NT98566+SC401AI 4MP back-illuminated CMOS 1 /2.7" target Sensor		
intelligent	describe		
License plate recognition and capture	support India , Iran, Russia , Turkey, Brazil, Japan, USA, EU, South Korea Over 50 Countries License Plate Recognition		
Motion Detection	support		
Sound and light alarm	When motion detection triggers an alarm, the alarm light board and voice alarm can be linked.	After license plate detection , you can set up a black and white license plate list linkage alarm light board and voice alarm.	
Image Video	describe		
Video Processing	H.264, H.265 video encoding; Support dual stream		
Resolution	Main stream: 2560*1440@25 (default), 2048*1536@25, 2304*1296@25, 1080P@25 Auxiliary stream: D1@25 (default), CIF@25		
OSD	Support time OSD , channel OSD settings		
Privacy Mask	support		
Wide dynamic range	Support digital wide dynamic range		
Noise reduction	Support 2D and 3D noise reduction		
software	describe		
Business Functions	Support web configuration Supports OSD configuration , image configuration and other services Supports multiple platform SDK development packages for secondary development Supports high-definition audio and video synchronous preview, two-way voice intercom		
Smart features	Supports intelligent functions such as motion detection, license plate intelligent recognition and snapshot.		
Lighting control	Support soft light-sensitive control, infrared model supports customized hard light-sensitive		
upgrade	Support local upgrade of WEB interface		
Audio	describe		
Audio Processing	Support G.711u and G.711a codec standards Support noise suppression		

Audio Output	Supports a maximum transmission rate of 64kbps		
network	describe		
IP acquisition method	DHCP, PPPoE, static IP address		
protocol	Support PPPoE, IPv4, IPV 6 , TCP, UDP, DHCP, RTP, RTSP, DNS, DDNS , NTP, port mapping and other network protocols;		
compatibility	Support ONVIF standard protocol to achieve video preview and recording of mainstream brand NVR Supports GB/T 28181 national standard protocol and can be connected to the national standard platform. Support GAT1400 view library		
Interface Characteristics	describe		
Network status indicator	support		
Alarm interface	Support 1 alarm input and 1 alarm output		
Audio Interface	Supports 1- channel MIC / Line input, 1-channel audio output, and is compatible with external audio amplifier boards		
Network interface	Support 10M/100M adaptive network port		
Fill light interface	Compatible with mainstream infrared light boards	Compatible with mainstream sensitive warm light panels	Compatible with mainstream dual-light panels
hardware	describe		
Plate thickness	1.6 mm		
weight	Net weight: approximately 0.05 kg (0.11 lb)		
Work Environment	- 30℃ ~ 60℃ (-22 ° F~140 ° F)		
Board size	38 mm* 38 mm		
power supply	DC12V±25% , supports anti-reverse connection, overvoltage, overcurrent protection, input short circuit protection		
reliability	7*24 hours -30℃-60℃ high and low temperature cycle test is stable and reliable The power port has 2KV lightning protection, and the network port has 4KV lightning protection, which complies with national and international standards.		

Port definition (dot is the first pin)



Interface pin definitions

Silkscreen number	Pin Number	Interface Definition	Functional Description	Signal direction	Level	illustrate
J1	1	SPK_OUT	Speaker output /GND	Output	Output /2.54Vpp	Speaker jack
	2	GND				
J2	1	OUT_A	IR-CUT signal +	Output	4~7.2V	IR_CUT interface
	2	OUT_B	IR- CUT signal-	Output	4~7.2V	
J3	1	LED_LINK	Network connection indicator	Output	0/3.3V	Ethernet interface
	2	LED_ACT	Network data transmission	Output	0/3.3V	

			indicator			
	3	TRD0_P	Network data sends differential signal positive	Output	/	
	4	TRD0_N	Network data sends differential signal negative	Output	/	
	5	TRD1_P	Network data receiving differential signal positive	enter	/	
	6	TRD1_N	Network data receiving differential signal negative	enter	/	
	7	GND	Main power ground	GND	0 V	
	8	VDD12V	Main power input	enter	12 V	Power interface
J4	1	LUX_INPUT	Reserve	enter	1.81~ 3.3V	Infrared models can be customized with hard photosensitivity (hard photosensitivity control, high level (> 1.8V))
	2	IR_CTRL_OUT1	Photosensitive control output 1	PWM output	0/3.3V	Soft photosensitivity control
	3	IR_CTRL_OUT2	Photosensitive control output 2	PWM output	0/3.3V	
	4	GND	land	GND	0V	
J5	1	IO1	IO1 interface	enter	0/3.3V	Extension interface
	2	IO2	IO2 interface	Output	0/3.3V	
	3	UART1_TXD	UART data sending signal	Output	0/3.3V	
	4	UART1_RXD	UART data receiving signal	enter	0/3.3V	
	5	GND	land	GND	0V	
	6	RS485_EN	RS485 enable signal	Output	0/3.3V	
J8	1	MIC_IN_L	MIC input signal positive	/	0V	MIC1 analog input
	2	GND	land	GND	0V	