

H5AS - Global License Plate Recognition Camera

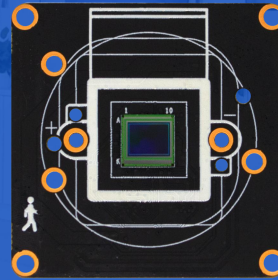
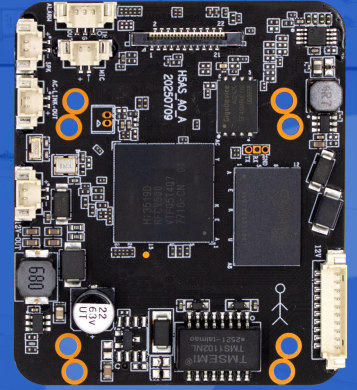
Support global license plate capture & recognition

2.5TOPS computing power chips, built-in large model algorithm

5MP resolution, support 512GB TF card storage

Support HTTP/HTTPS, MQTT, FTP protocol

Support alarm_in/out, switch quantity alarm output



Product Features

- 1/2.8 Sony IMX335 high sensitivity CMOS sensor
- High-end ISP and video encoding SOC, computing power up to 2.5TOPS@INT8
- 5MP/30FPS video, true WDR
- Support global license plate capture or recognition
- Support HTTP/HTTPS, MQTT, ONVIF, RTSP protocol
- Support alarm_in/out, can expand to switch quantity alarm output, PT, WiFi & 4G functions
- Support comprehensive structured analysis for human, vehicle, animal, behavior(Reserved, currently not supported)
- Built-in AI detection of large models, support text deployment and enabling multiple algorithms simultaneously(Reserved, currently not supported)

Product Functions

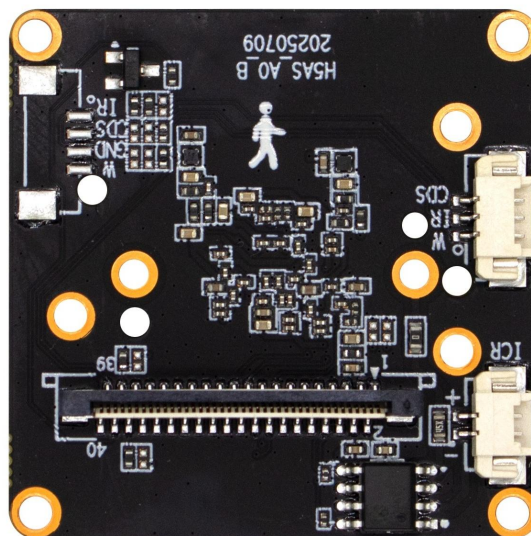
- Support H264, H.265 video compression
- Main Stream: 5MP(2592*1944)/4MP(2560*1440)/3MP(2304*1296)/2MP(1920*1080)
- Sub-Stream: 720P(1280*720)/448P(800*448)/360P(640*360) / CIF(352*288);
- Support dual stream simultaneous output
- Suggest to use 6mm HD lens for license plate version
- Support standalone working, blacklist & whitelist alarm linkage

- Work with Ruision NVR (N310B、N316B、N336A) enable to achieve license plate, database, blacklist & whitelist alarm linkage, recording function, etc.
- Support global license plate capture and recognition function
- Enable to recognize license plate number, vehicle color, vehicle model, vehicle traffic statistics
- Working mode auto switch: surveillance surrounding environment if no vehicle, will adjust lighting to recognize license plate if detect vehicle
- Enable to overlay license plate information to video screen after detection
- Support auto capture and manual capture mode, suitable for multiple application scenarios
- Support audio input & output, two-way-talk, alarm input & output
- Support FTP function to upload photo
- Support TF card, max 512GB
- Support OSD overlay and network time synchronization function
- Support remote control by APP (iOS/Android) and computer software

APP Download: 睿博士/HiEasy

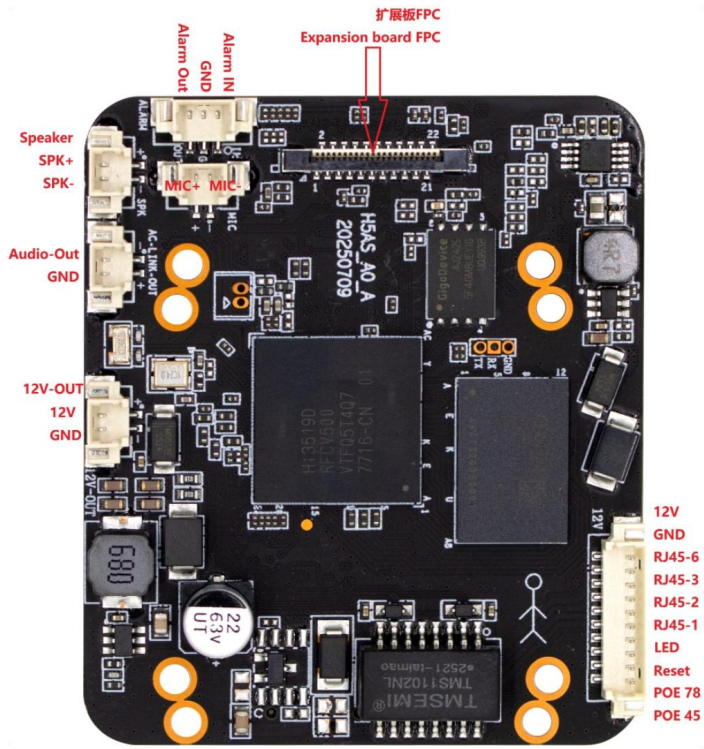


Wiring Diagram

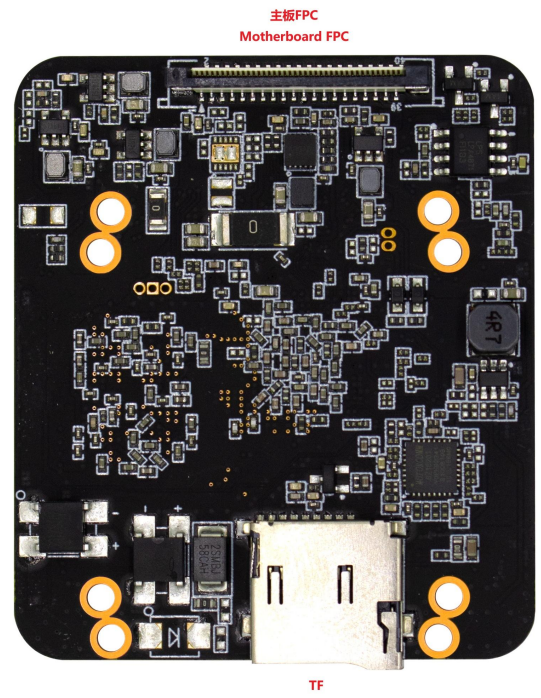


NC
双光源红外 Dual-Light(Infrared)
PWM

Sensor Board



PCB Front Side



PCB Back Side

Specifications

Function	
White Balance	Auto
Noise Reduction	3D-NR
WDR	True WDR (120db)
Privacy Masking	Support
OSD	Support OSD setting and dragging
Intelligent Function	
License Plate Recognition	
Recognition Mode	<p>Auto mode and manual mode optional</p> <p>Can balance monitoring & license plate recognition, surveillance surrounding environment if no vehicle, will shrink lighting if detect vehicle</p> <p>Manual mode can adjust vehicle speed for capture based on lighting environment</p> <p>Global license plate capture and recognition, multiple countries customization supported</p> <p>Enable expand to vehicle, license plate other functions</p>
Identifying Method	By License plate structured recognition algorithm

Output Information	License Plate Number, vehicle model & color, OSD overlay to display license plate details
Vehicle Speed	Day: below 120Km/h, Night: below 80Km/h
Recognition Distance	Suggested 6mm lens: 4-13 meters
Function Linkage	Voice broadcasting, alarm signal output, TF card photo capture and recording, FTP upload
Installation Requirement	<p>Need stable lighting environment, need additional LED lighting for vehicle body if environment not match requirement. The camera is located in the forward direction of the vehicle and can capture photos of the front license plate</p> <p>When the angle is large, only one or two lanes closest to the camera can be recognized; You can adjust area configuration</p>
Video	
Video Compression	H.264, H.265
Resolution	Main stream: 5MP(2592*1944)/4MP(2560*1440)/3MP(2304*1296)/2MP(1920*1080)
	Sub stream: 720P(1280*720)/448P(800*448)/360P(640*360)/CIF(352*288)
Frame Rate	5MP / 30 FPS
Network	
Ethernet	RJ-45 10M/100M self-adaptive
Protocols	ONVIF, P2P, CGI, RTSP, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS, FTP, MQTT, HTTP/HTTPS
Access Protocol	ONVIF/Private/CGI
Max Connection	3 x main stream, 3 x sub stream
Client	APP: 睿博士/HiEasy (iOS & Android), Computer Software: EasyVMS
Audio	
Audio Compression	G.711U、G711A
Audio_in	Support
Audio_out	1CH active output, 1CH amplifier output
Interface	
TF Card Slot	Max support 512G TF card
Alarm_in	Support
Alarm_out	Support 1CH
General	
Size	Main Board: 60mmx51mm Sensor Board: 38mmx38mm

Working Temperature	-30°C ~ +60°C
Power	DC12V