H5AI Intelligent AI Camera

Support face capture and face recognition

Support China LPR & global license plate capture

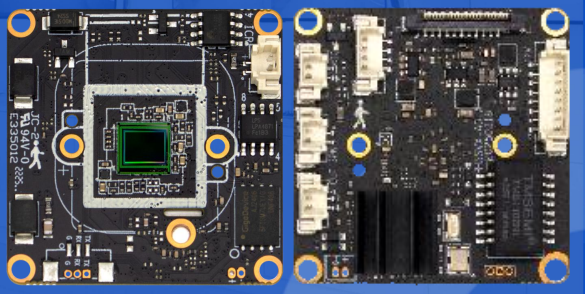
Human, Vehicle, Non-motorized vehicle detection

Multiple AI application

Support 512G TF card & BAT battery function

Can expend to alarm_in/out, Pan&Tilt, WiFi, 4G function

HTTP/HTTPS, MQTT, FTP, GB28181, ONVIF protocol



|Features

•1/2.8 Sony high sensitivity sensor

•Support H.265+、H.265、H.264 coding；dual stream simultaneous output;

Main-stream：5MP(2592*1944)/4MP(2560*1440)/3MP(2304*1296)/2MP(1920*1080)

Sub-stream：448P(800*448)/360P(640*360)/ CIF(352*288)；

•Support human, vehicle, non-motorized vehicle shape detection (need to activate license plate code)

----AI application：electric fence, cross border, people counting & statistics, traffics statistics;

•Support intelligent face recognition algorithm (Activated required) and License plate structured algorithm (Activated required)

•Face Recognition Structured Algorithm:

---Each frame support 6 people face detection and tracking

---Supports fast capture and quality capture, customized mode, face photo quality adjustable. Max Capture 6 people face simultaneously, minimum facial pixel size of 20 x 20

---Support face comparison function, white list, black list, visitor, stranger alarm

---Support people eigenvalue output：gender、age、with or without hat, mask, glass

---Support transfer face photo to device and configure alarm rules by EasyVMS and APP

•License Plate Recognition Structured Algorithm

---Support global license plate capture(need to close license plate number identification)

---Can recognize vehicle color, license plate number and overlay its information to video screen

---Working mode auto switch: surveillance surrounding environment if no vehicle, will adjust lighting to

recognize license plate if detect vehicle

---Support auto capture and manual capture mode, suitable for multiple application scenarios

---Support license plate deployment and distribute to device by EasyVMS

Support license plate follow, strange license plate, not green license plate, yellow license plate, no license plate deployment

•Suggest 6mm lens for face or LPR version completed camera;

•Support alarm_in/out, two-way-talk, on-board amplifier, can connect speaker directly

•Support alarm_in and extended to switch quantity alarm_out

•Support ONVIF, P2P, GB/T-28181、MQTT、HTTP/HTTPS, FTP, CGI, DNS protocols

•Support OSD overlay and channel name text input by global languages

•Support extend to TF card storage, max 512GB

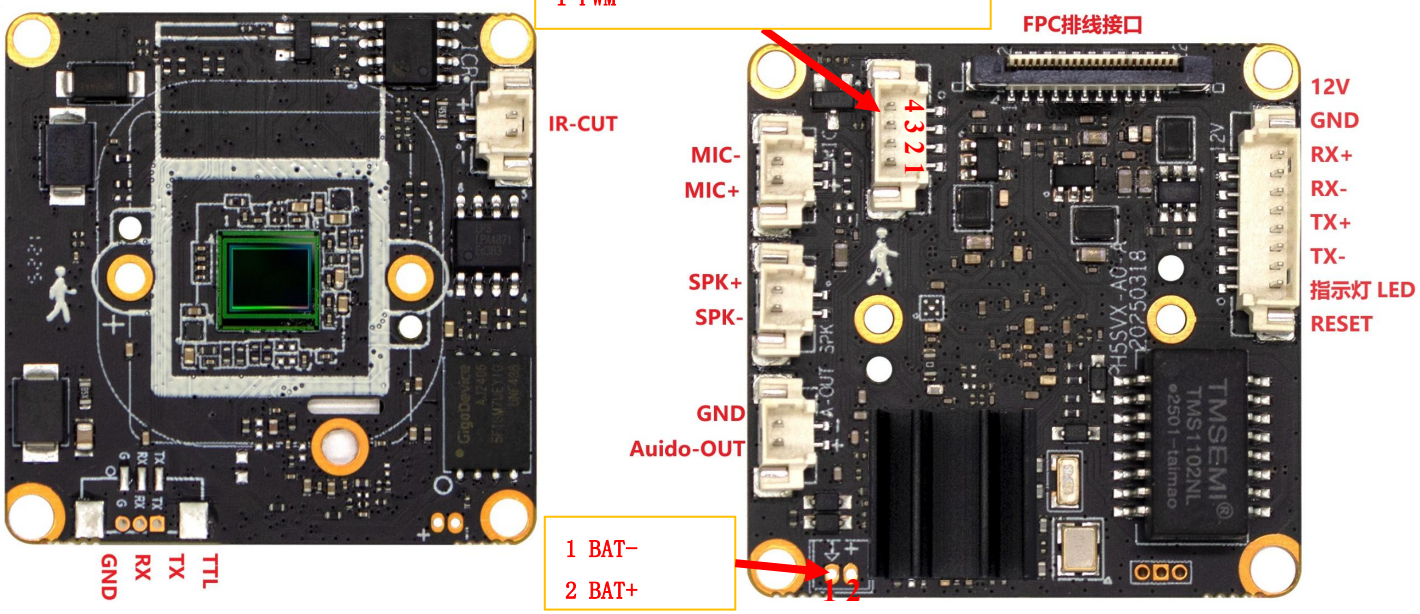
•WiFi (Wi-Fi 6 /2.4g+ Bluetooth function) and 4G version available

•Support screen occlusion,protect privacy area, NTP function

•Support APP (iOS/Android) and computer software remote control

|APP Download: 睿博士/HiEasy

|Wiring Diagram



Single light LED board：IR and warm light both connect to PWM pin；Dual light LED board：IR connect to dual light Infrared pin，warm light connect to PWM pin；

BAT pin support connect battery to save time, support extended to TF card, WIFI, 4G、PT function

Specifications

Function	
White Balance	Auto
Noise Reduction	3D-NR
WDR	WDR (120db)
Privacy Mask	Support
OSD	Support global OSD overlay, channel name support global languages input
Intelligent Functions	
Smart Detection	Can detect human/vehicle shape and push alarm. can support non-motorized vehicle detection（need to activate license plate code）
	Inclusive AI: electric fence, cross border, people counting & statistics, traffics statistics
Face Recognition	
Face Capture	Supports facial duplication, fast capture and quality capture, customized mode optional； Fast Capture: quick push facial images that appear Quality Capture: Push the best facial image in the period of facial appearance Facial quality adjustable , supporting 6 person face detection and tracking per frame； Capture 6 people simultaneously, minimum facial pixel size of 20 x 20； Support people eigenvalue output：gender、age、with or without hat, mask, glass,etc.
Face Comparison	Support white list, black list, visitor, stranger alarm setting, etc Support upload face database to device by EasyVMS、APP，support standalone version； Support configure alarm rule by EasyVMS、APP，support receive alarm event message；
Face Database	Max support 5000 face photo（Work with EasyVMS software & HiEasy APP）
Detection Distance	6mm lens：3-5 meters；
Functions Linkage	Support voice broadcast, alarm output, TF card photo capture、TF card recording、FTP upload Support MQTT, HTTP protocol report；

Install Requirement	Ensure camera can capture the positive face of all incoming or outgoing people Need stable lighting environment, too bright or too dark will cause error
License Plate Recognition	
Recognition Mode	Support auto mode and manual mode Can balance monitoring & license plate recognition, surveillance surrounding environment if no vehicle, will shrink lighting if detect vehicle Support global license plate photo capture, Chinese license plate recognition Support license plate deployment and distribute to device by EasyVMS Support license plate follow, strange license plate, not green license plate, yellow license plate, no license plate deployment
License Plate Database	Max support 5000 license plate photo（Work with EasyVMS software）
Output Content	License plate color, license plate number, support OSD overlay license plate number and color to video part
Vehicle Speed	Auto mode：60Km/h or below，Manual mode: speed adjustable
Detection Distance	6mm lens：4-13 meters；
Functions Linkage	Support voice broadcast, alarm output, TF card recording, FTP upload Support MQTT, HTTP protocol report Support alarm message push Work with AI NVR to realize license plate database, strange license plate record, white/black list alarm linkage, query recording by license plate. (N310B、N316B、N336A)
Install Requirement	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
Video	
Compression	H.264，H.265、H.265+
Resolution	Main：5MP(2592*1944)，4MP(2560*1440)，3MP(2304*1296)，2MP(1920*1080)
	Sub：448P(800*448)/360P(640*360)/ CIF(352*288)
Frame rate	5MP / 30fps
Network	
Ethernet	RJ-45 10M/100M self-adaptive
Network Protocol	ONVIF，P2P，CGI，HTTP，TCP/IP，IPv4，RTSP，UDP，NTP，DHCP，DNS，FTP，GB/T-28181，MQTT、HTTP/HTTPS
Access Protocol	ONVIF /Private/CGI/P2P

Max Connection	3x mainstream，3x sub-stream
Clients	APP: HiEasy(iOS & Android)、Computer: EasyVMS
Audio	
Code	G.711U、G711A
Audio_in	Support
Audio_out	Support 1CH active output, 1CH amplifier output
Other Interface	
TF Card	With expanded board support 512GB storage
Alarm_in	With expanded board support alarm input
Alarm_out	Support 1CH alarm output
General	
Size	38x38mm
Working Temperature	-30℃ ~ +60℃
Power	DC12V