

TSI4 - TSI98H-K970D

9MP AI Enforcement Camera



Features

- All-in-one design: including camera housing, optical processing mechanism, HD camera, integrated control module and other components, easy installation and commissioning, and reliable outdoor use.
- Shield fan-less cooling design: fully sealed internal working environment can avoid internal contamination caused by external dust intrusion.
- Advanced technologies enables consistent image quality for up to 18 months without requiring any maintenance.
- 9.0 Megapixel camera, 1 inch high performance image sensor.
- Embedded LED strobe lights with lateral adjustable angle can perfectly match with external shields, color temperature $\geq 5000\text{K}$, average power consumption $\leq 5\text{W}$, lifespan $> 50,000$ hours
- Efficient H.265 video compression algorithm, frame rate up to 30 fps, stream less than 16Mbps
- Support camera temperature and humidity detection
- Support internal pressure detection
- IP68 protection
- Built-in TSI ANPR engine, equipped with deep learning algorithm



TSI | RAM SERIES

Technical Parameters

Model	I TSI98H-K970D
Camera	
Image Sensor	9MP 1'' GS-CMOS high performance sensor
Lens	25mm, 35mm,50mm,70mm (Optional)
Lens Mount	C mount
Image resolution	4096*2176(H×V) (OSD black strip excluded)
Video resolution	Main stream: 4096*2176@30fps
	Second stream: 1080P@30fps
Video Frame	1~30fps(configurable)
Electronic shutter speed	Up to 1/62500s(Auto/Manual)
Video bit rate	32kbps~16Mbps
Video compression	H.265/H.264/MJPEG
Image encoding	JPEG (Picture quality can be configurable)
Capture mode	Front/Rear
White balance	Auto, Manual (red and blue gain)
Backlight compensation	Support
SNR	> 64db
Min. Illumination	Color:0.0011UX@ (F1.4, AGC ON)
	B/W:0.0011UX@ (F1.4, AGC ON)
Function	



Composite image	Support creating composite image with 1,2,3 or 4 images
Trigger mode	Loop Detector, Video, Radar
OSD overlay	Time, address (position of channel), lane (number, direction), plate (number and color), vehicle (speed, color, logo, brand, type), non-motor vehicle feature
Storage	TF card (up to 256G), NAS, FTP
Automatic network replenishment	Support, through FTP
Positioning function	Support, external GPS/Beidou
Time synchronization	Support, NTP/GPS
Image tampering prevention	Support
API	GB28181, SDK, ONVIF, CGI
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IPv6, UDP
Intelligence	
License plate recognition	Supports recognizing GCC plates in the baseline version; for other countries/regions, customization is required
Vehicle type detection	Supports recognizing large, medium-sized, and small vehicles, and motorcycles in the baseline version. For other vehicle types, customization is required
Vehicle color recognition	Supports recognizing white, orange, pink, black, red, yellow, gray, blue, green, purple, brown, and silver gray
Target detection	Supports detection of motor and non-motor vehicles
Face detection	Supports face detection of driver and the passenger next to driver



Illegal violation detection	No seat-belt, using mobile phone, speeding, beating red light, driving in wrong direction, illegal lane change, solid line driving, illegal U-turn, driving in wrong lane at intersection
Vehicle flow detection	Supports statistics (by lane and by time period) on vehicle flow, average speed, vehicle type, occupancy, average queue length, etc., and supports exporting reports
Video structuring	Motor vehicle: Plate, type, color, logo, and series of vehicle; unfastened safe belt; calling while driving
	Non-motor vehicle: Type (non-motor vehicle or pedestrian)
Target detection	Supports detection of motor, non-motor and pedestrian
Interface	
Ethernet port	1× 1000M self-adaptive RJ45 (Aviation plug)
Power supply port	1×power supply port
RS485 port	3×RS485 (Aviation plug)
Storage	2×TF card slot
Indicator light	1× Network connection indicator light
GPS	1×GPS port
Flash light port	4×flash light control port (Aviation plug)
Strobe light port	2× strobe light control port (Aviation plug)
General	
Power supply	DC12V (Aviation plug) *
	DC24V (Aviation plug)
	AC220V (Aviation plug)
Operating temperature	-40°C~+80°C



Operating humidity	10%-90% (non-condensing)
Protection grade	IP68 (10 m deep) It's filled with nitrogen at 2 atmospheres
Power consumption	< 25W
Dimensions(L×W×H)	500mm×185mm×180mm
Certification	CE/FCC
Net weight	≤7.5kg
MTBF	100000 hours
Installation	Universal joint installation

