

VANTAGE™ Intelligent Traffic Information System

Public Road Security and Law Enforcement

Automatic Number Plate Recognition (ANPR) is essential for traffic enforcement and safeguarding public roads. ANPR systems identify unique vehicle number plates and generate vital traffic statistics to help government agencies better monitor, maintain and manage traffic and road development.

VANTAGE™ Security Suite

TSI VANTAGE™ sets itself apart from competing ANPR systems with cutting-edge technology. Successfully implemented and proven in the world's largest auto market, VANTAGE™ boasts superior vehicle capture and recognition rates.

The suite of devices and software is completely customisable and easily integrates into a single platform, empowering agencies to upgrade traffic surveillance capabilities effectively and effortlessly.




VANTAGE™ Drive
Greater accuracy and reliability



VANTAGE™ hardware features a self-contained system with inbuilt ANPR that supports high capture rate (up to 99%), recognition rate (up to 96%), and detection of vehicles of speeds up to 250km/h.

VANTAGE™ Track
Advanced recognition features



Creates black/white lists and intelligently tracks the movement of suspicious vehicles.

VANTAGE™ Connect
Fully integrated system



VANTAGE™ devices and software easily combine with existing traffic surveillance equipment into a single application platform.



VANTAGE™ Control
Efficient traffic management



A host of automated systems to control traffic lights and monitor traffic violation for smoother and safer roads.

VANTAGE™ Real-Time
Detailed live data



Enables duty personnel to zoom in on critical sites for closer real-time traffic monitoring.

About Us

TSI is a leading security solutions provider with a global presence and proven track record in developing effective mission critical information systems. Our unique approach combines intelligent technology with extensive industry expertise—providing innovative solutions to suit your every security need.

Contact Us

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VANTAGE™ Hardware Specifications

RAM SERIES



SPECIFICATIONS (MAIN CAMERA)		
NAME		2.0/5.0/7.0 Megapixel 1/1.8" CCD HD Embedded Camera Automatic Number Plate Recognition
CAMERA	SENSOR	1" Sony Progressive Scan CCD
	MINIMUM ILLUMINATION	4 0.1Lux@(F1.2,AGC ON)
	SHUTTER	1/25 second to 1/100,000 second (Default Value: 1/50)
	LENS INTERFACE	C/CS mount
	F-STOP	F1.2
	FILTER TYPE AND FILTER SPECIFICATION	Computar PL405-1 M40.5 x 0.5
	LENS TYPE AND FILTER SPECIFICATION	Computar SF5020-8MP Ø35.6 x 39.6
	APERTURE	DC driver
COMPRESSION	VIDEO COMPRESSION STANDARDS	H.264/MJPEG
	OUTPUT RATE	32 Kbps to 16Mbps
IMAGE	IMAGE FORMAT	JPEG
	MAX SIZE	2752px × 2208px
	FRAME RATE	25fps (2048 × 1536)
	IMAGE SETTING	1/25 second to 1/100,000 second (Default Value: 1/50)
NETWORK	STORAGE	Support SD/SDHC,USB (up to 64GB)
	SUPPORT PROTOCOL	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, support FTP uploading image
	GENERAL FUNCTION	Heartbeat, Password Protection, NTP
CAPTURING FUNCTION	IMAGE FORMAT	JPEG coding
	RECOGNITION	Plate recognition, vehicle type, vehicle detection
	FLASHING LIGHT CONTROL	Auto Control according to environmental lighting conditions, working time control, support separate flashing, no flashing, linkage flashing, or fixed time flashing
	SPECIAL FUNCTION	Support the signal light, traffic signal synchronisation state input, illegal continuous capture, video checkpoint
	INTERFACE	
INTERFACE	NETWORK INTERFACE	1 RJ45 10M/100M/1000M Ethernet port, 1 RS-485
	TRIGGER INPUT	3 channel (Opt coupler isolation 2500VAC), can be used for flashing light synchronous control
	SYNC INPUT	SYNC power synchronous input
	VIDEO OUTPUT	1Vp-p composite output (75Ω / BNC)
FAN	FAN SPECIFICATIONS	Xinruilian, RBH7530B1
	OPERATING TEMPERATURE	Auto Start: 37 °C ± 5 °C/ Auto Stop: 20 °C ± 5 °C
SURGE PROTECTOR	POWER PROTECTION SPECIFICATIONS	Hotta , FRX-SL-5
	LAN PORT PROTECTION SPECIFICATIONS	Hotta , FRX-SL-RJ45
OPERATING ENVIRONMENT	AMBIENT TEMPERATURE	0 °C to 65 °C
	RELATIVE HUMIDITY	< 90%
ON BOARD LED	MAKE AND MODEL	OSRAM LS-2111-1
	SPECIFICATIONS	3 x 15Hz to 250Hz

SPECIFICATIONS (MAIN CAMERA)		
OPERATING CONDITIONS	WORKING TEMPERATURE	-30 °C to 70 °C
	RELATIVE HUMIDITY	< 90%
	VOLTAGE	DC12V ± 10%
	POWER	10W MAX
	SIZE	150mm (L) × 84mm (W) × 70mm (H)
	WEIGHT	1450g
	MTBF	30000 hrs
VIBRATION TEST SPECIFICATIONS	10-55hz, 0.75mm vibration in X.Y.Z direction, 3 times, 5 mins each	
SPECIFICATIONS (TERMINAL SERVER)		
PROCESSOR	Da Vinci digital video processor	
NETWORK INTERFACE	Independent 8 ports of 100M Ethernet interface, and 2 pieces of 1000M net interface, 1 photoelectric conversion network interface	
PORT	2 RS232 ports, 4 RS485 ports, 2 USB2.0 ports, 1 channel audio input interface, 1 channel audio output interface, 1 eSATA interface, 1 VGA interface, 4 SD BNC analog input interfaces	
OS	Embedded Linux	
MEMORY	≥2000 vehicle passing information or ≥1000 illegal violation information	
SUPPORT LANE	8 lanes	
VOLTAGE	DC12V	
POWER	< 30W	
WORKING TEMPERATURE	-30 °C to 70 °C	
SIZE	370mm (L) × 260mm (W) × 106mm (H), black aluminium casing	
WEIGHT	7.2kg	