

# Specially Developed Camera for Intelligent Traffic Control



## General Information

The Custom-Developed Camera for Intelligent Traffic Control uses the most advanced SOC+GPU hardware architecture in its field. These next-generation incident detection solutions leverage cutting-edge AI-based traffic detection algorithms. It provides proven image detection performance and reliability, while allowing for easy integration of additional functions that will be needed in the future. It simplifies vehicle speed, vehicle type detection, and supports a wide range of real-time and statistical data, including travel time analysis. It can also perform precise analysis and alert for traffic flow status.

Signal control systems are applied to urban roads to provide real-time traffic data for routing and conflict warning systems. It also offers real-time or historical statistical data over the network for traffic engineers and route planners.

## Üstün Performans

- Real-Time Data: Includes data such as traffic flow, real-time speed, vehicle type, queue length, etc.
- Statistical Data: Traffic flow, average speed, road time, gap distance, time occupancy rate, space occupancy rate, etc.
- Advanced Features: Through vehicle type detection, travel time analysis of a large number of vehicles can be performed with higher accuracy.
- Traffic Conditions: Analyzes traffic situations such as slow-moving vehicles, traffic jams, and vehicles waiting in queues.

## Easy Installation and Commissioning

- Installation can be completed with the included hex wrench; Start-up and normal operation can be realized within five minutes.

## Key Features

- Image sensor with Starlight technology for excellent nighttime performance
- Independent GPU chip to run more advanced algorithms
- To be able to calculate and analyze traffic, event and route time
- Hardware and software features that can be developed according to field requirements
- Compatible with horizontal and vertical pole installation. Supports a wide range of application scenarios
- Product setup and debugging that can be completed with a single wrench
- Patented integrated design ensures high reliability in the operation of the product.

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## Technical Specifications

<b>Video</b>	Video resolution	Main Tape 5M (2560*1920)
	Encoding format	H.264, H.265
	Frame rate	25 frames (adjustable)
	Minimum illumination	Color 0.02Lux@F1.2
	Black & White	0.01Lux@F1.2
	Bi-directional transfer	Supports main and child streams
	LENS	3.6-12mm (prime lens, 12mm as standard)
	Video Recording	OVNIF protocol support for NVR recording
<b>Processor</b>	SOC processor	A7@600MHz
	GPU processor	1T computing power
<b>Detection</b>	Strips	1-8 lanes
	Flash memory	128M (expandable)
	Real-time data	Speed, traffic flow, vehicle type, etc.
	Statistical data	Speed, traffic flow, occupancy rate, road, queue length
	Traffic situation	Moving slowly, cramped, queuing
	Traffic flow detection accuracy	≥%95
	Vehicle type accuracy	≥%95
	Occupancy detection accuracy	≥%95
	Speed sensing accuracy	≥%92
	Tail length accuracy	≥%92
<b>Communication</b>	Non-motorized vehicle filtration rate	≥%97
	Sampling period	30-300s, continuously adjustable
<b>Installation</b>	Communication port	1*LAN
	Size	D*W*H: 330*147*229mm (12.99*5.79*9.02inç)
	Weight	2,2 KG
	Installation height	5m-8m (16.40-26.25 ft)
	Brake mounting	Universal fixed bracket, adjustable in two axes, supports both horizontal and vertical pole mounting
<b>Environment and Reliability</b>	Ability to work in all weather conditions	Not being affected by day and night, weather conditions and adverse conditions
	Operating Temperature	-40 ila 75°C
	Humidity	0-95% relative humidity
	IP class	IP66
	MTBF	>50000 hours
<b>Power</b>	Power supply	AC100-240V, 50-60Hz
	Power consumption	8W

## Ordering Information

- Camera with specially developed image processing feature for intelligent traffic control, 20 m detection distance,
- 12mm default focal length,
- Ethernet to I/O converter terminal