



## Introduction

iDS-TSS300-C/04 is a new generation device of multi-channels video smart analysis, which is based on deep learning algorithm. Applied in such scenarios as city roads, expressways, and tunnels for real-time traffic incidents detection, it can collect traffic parameters, and capture pictures of the detected incidents. iDS-TSS300-C/04 can detect and analyze traffic incidents, and collect traffic parameters from network cameras of 4 channels simultaneously.

## **Key Feature**

- Supports access to multiple types of cameras, including normal surveillance camera, smart surveillance camera, capture camera, and ONVIF protocol-supported thirdparty camera.
- Supports multiple incidents detection, including lane change, driving on the lane line, wrong-way driving, stopped vehicle, congestion, pedestrians, emergency lane occupation, fallen objects, speeding, low-speed driving, fire, smoke.
- Supports multiple traffic parameters collection: vehicle type, lane flow, lane speed, space headway, time headway, lane time occupancy rate, lane space occupancy rate, queuing length, and traffic status.
- Access to cameras from 4 channels and supports patrol detection of 16 kinds of scenarios when connected to speed domes.
- Supports to search data and play back related videos according to time, channel, incident type, and capture type.
- Supports to configure multiple types of text overlay and picture composition.

## **Specification**

System						
Operating System	Embedded Linux Operating System					
Operating Interface	WEB					
HDD Storage Capacity	1 × 4 TB 3.5-inch SATA HDD (Default); 4 × 6 TB (Scalable)					
RESET Button	1 × Reset button					
Indicator	Power Indicator, alarm status indicator, HDD indicator, running status indicator					
Functions						
Lane Change	An alarm is triggered when a vehicle is detected crossing the prohibition line from one lane and enters another lane. The target short side size $\geq$ 64 pixels, and the occlusion ratio $\leq$ 30%: the capture rate is 90%, and the accuracy rate is 90%.					
Driving on the Lane Line	An alarm is triggered when a vehicle is detected driving on the prohibition line for a duration exceeding the set value. The target short side size $\geq$ 64 pixels, and the occlusion ratio $\leq$ 30%: the capture rate is 90%, and the accuracy rate is 90%.					
Wrong-Way Driving	An alarm is triggered when a vehicle is detected driving against the lane direction for a duration exceeding the set value. The target short side size $\geq$ 64 pixels, and the occlusion ratio $\leq$ 30%: the capture rate is 90%, and the accuracy rate is 90%.					
Stopped Vehicle	An alarm is triggered when a vehicle is detected stopped on the road for a duration exceeding the set value. Target pixel $\geq$ 32 × 32, and the occlusion ratio $\leq$ 50%: the capture rate is 90%, and the accuracy rate is 90%.					



Congestion	than 2 times to reach the intersection         stop line: the capture rate is 90%, and         the accuracy rate is 90%.         An alarm is triggered when a         pedestrian is detected entering the		Statistics	Make a statistics of vehicles that pass through the virtual coil in a lane within the set time range. Make a statistics of vehicle type, average speed, lane queue length, space headway, lane time occupancy rate, lane space occupancy rate.	
	prohibited area for a duration exceeding the set value.	Interface			
Pedestrians	Target pixel $\ge$ 32 $\times$ 32, and the occlusion ratio $\le$ 30%: the capture rate is 90%, and the accuracy rate is 90%. The pedestrians cannot be detected at night without light.	Network Interface		Dual NIC design NIC 1: 9 × Gigabit Ethernet interface, 1 × combo SFP Gigabit fiber optic interface NIC 2: 1 × Gigabit Ethernet interface, 1	
	An alarm is triggered when a vehicle is detected driving in the emergency lane			× SFP Gigabit fiber optic interface	
Emergency Lane Occupation	for a duration exceeding the set value.	Audio Input		1	
	The target short side size $\geq$ 64 pixels,	Audio Output		1	
	and the occlusion ratio $\leq$ 30%: the	Alarm Input		2	
	capture rate is 90%, and the accuracy	Alarm Output		2	
	rate is 90%.	RS-232 Interface		2	
	An alarm is triggered when a fallen	RS-485 Interface		2	
	object appears in the detection area	USB Interfac			
	for a duration exceeding the set value.	Function			
Fallen Object	<ul> <li>Target pixel is ≥ 32×32: the capture rate is 60%, and the accuracy rate is 60%.</li> <li>Recommended detection time is 10s, supporting box type, wheel type,</li> </ul>	Upload		Supports transportation data ANR and manual re-uploading.	
		Network Configuration		Supports cameras and servers of different subnets to save IP address resource.	
	package, bottle type, stick type, and plastic bag detection, and the target	General			
	cannot be moved.	Power Supply		12 VDC/12.5 A, 150 W	
	The fallen object cannot be detected at	Power Consumption		Max. 70 W	
	night without light (except for tunnel scenes).	Dimension ( $W \times D \times H$ )		370 mm × 273 mm × 102.5 mm (14.57 inch × 10.75 inch × 4.04 inch)	
	An alarm is triggered when a vehicle is	Working Environment		Working Temperature: -30 °C to 70 °C	
Speeding	detected driving at a speed exceeding			(-86 °F to 158 °F)	
(Customized)	the set value for a duration exceeding			Working Humidity: 10% to 90%	
	the set value.				
Low-Speed Driving (Customized)	An alarm is triggered when a vehicle is	Available	e wodel		
	detected driving at a speed lower than the set value for a duration exceeding	Model		Function	Device Deployment
	the set value.		Supports t	raffic incidents auto	
		iDS-TSS300-		ction, picture capture, and	
Fire	An alarm is triggered when fire	C/04		eters collection from 4 MP	
				cameras of 4 channels.	
(Customized)	appears and continues for a duration. Target pixel ≥ 80 × 80.				<u> </u>
Smoke (Customized)	An alarm is triggered when smoke appears and continues for a duration. Target pixel ≥ 80 × 80.				



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Transmission

System



Intelligent Speed Dome

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Hikvision Corporate Channel

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System



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