

iDS-TP40-16B Traffic Incident Detection Server



Features and Functions

Smart Functions

- GPU architecture with deep-learning algorithm. 2MP/3 MP HD camera connection to detect and analyze multiple traffic incidents, and supports traffic flow statistics.
- Multiple traffic incidents detection: Illegal parking, wrong-way driving, pedestrian, driving on the lane line, illegal lane change, objects dropped down, occupy emergency lane, congestion, flow, roadblock, construction.
- Multiple traffic parameters collection: vehicle type, lane traffic flow, lane vehicle speed, space headway, time headway, lane time occupancy, lane space occupancy, queue length, lane traffic status, etc.

Professionalism and Reliability

- Professional embedded hardware and software to guarantee the reliability of system operation.
- Redundant power supply to raise the system stability.
- The normal or hot spare working mode can be configured to N + 1.
- Data network interfaces and management network interfaces to raise the system safety.

HD Input

- Up to 16-ch 2MP/3 MP HD cameras connection.
- Live view of the connected cameras.

HD Transmission

- 4 self-adaptive 10/100/1000M network interfaces.

Various Applications

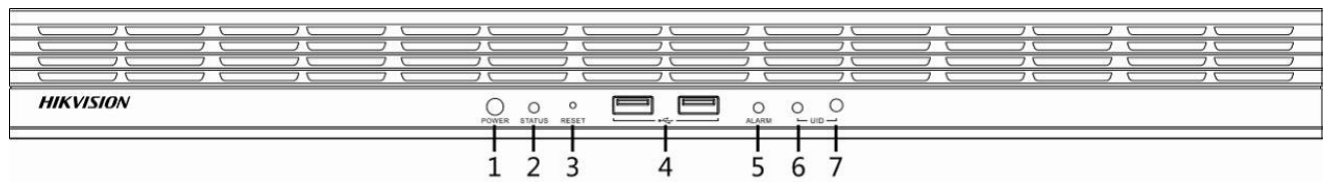
- Centralized management of connected IP cameras, including system configuration, alarm and operation log search and export, software upgrade, etc.
- Time synchronization manually or by NTP.
- One-key startup and shutdown.
- Supports listening mode and uploading data to Hikvision iVMS-8600.



Specifications

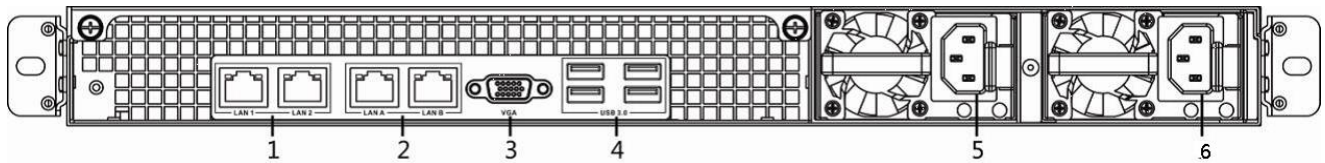
Model		iDS-TP40-16B
Real Panel Interfaces	Network interface	4 self-adaptive 10/100/1000M network interfaces
	USB interface	4 × USB 3.0
	VGA interface	1
Front Panel Interfaces	USB interface	2 × USB 2.0
	Indicator	UID indicator, Alarm indicator, Power indicator, Ready indicator
	Button	Power on/off, Reboot
X86 Mainboard	X86 mainboard	1
	Memory	2 × 4 GB memory bank
	M-SATA	1 × 32 GB
	SSD	1 × min. 120 GB
TX1 Board	TX1 mainboard	1 × TX1 baseboard
	TX1 chip	16 × TX1 chip
Others	Dimensions (W × D × H)	438.4 × 591 × 43.6 mm (17.3 × 23.3 × 1.7 inch), standard 19 inch 1U chassis design
	Power supply	Hot spare, efficient, 1 + 1 redundant, 800 W
	Working temperature	+5 °C to +40 °C (+41 °F to +104 °F)
	Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
	Operating humidity	10% to 90%
	Storage humidity	5% to 95%
	Weight	16 kg (35.3 lb)

Front Panel Interfaces



No.	Name	Description
1	POWER Button/Indicator	Press the POWER button to start up the server. Hold it for 3s to force shut down the server. The indicator shows solid blue after the server is powered on.
2	STATUS Indicator	It indicates the system status. It stays solid blue if the system is normal. It is unlit if the system is abnormal.
3	Reset Button	Press it and the server will reboot.
4	USB Interface	2 USB 2.0 interfaces, connecting USB devices
5	ALARM Indicator	Solid red indicates the mainboard is abnormal.
6	UID Indicator	It indicates blue if UID is turned on, convenient for quick positioning and recognition of the server.
7	UID Button	Press it to turn on/off the UID indicator.

Rear Panel Interfaces



No.	Name	Description
1	LAN1/LAN2 Interface	2 10/100/1000M network interfaces
2	LANA/LANB Interface	2 management network interfaces
3	VGA Interface	For debugging
4	USB 3.0 Interface	4 USB 3.0 interfaces, connecting USB devices
5	ALARM Indicator	Solid red indicates the mainboard is abnormal.
6	Redundant 1+1 Power Input	For connecting power cord; redundant power supply to realize high system availability

Available Models

iDS-TP40-16B

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