



PRODUCT QUICK GUIDE

INTELLIGENT TRAFFIC SYSTEM

2021 H1

HIKVISION[®]

Intelligent Traffic System

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Intelligent Traffic System

As city populations grow, so do car ownership and the burdens on urban traffic systems. The key objective remains keeping everyone moving safely and responsibly on the road, optimizing the use of available transportation and parking resources, and responding to traffic and security events as swiftly as possible. Hikvision's Intelligent Traffic System helps alleviate these concerns altogether. It effectively regulates traffic order by detecting and managing various road violations, such as running the red light, speeding, improper lane usage, illegal parking, etc. It also helps optimize traffic flow and ease gridlock by adjusting red and green light durations according to actual road conditions. An ITS guidance screen can be placed near congested areas to display alternate route information to keep traffic under control, reduce driver frustration, and relieve officers from having to manually directing traffic in dangerous conditions.



At entrances and exits, Hikvision's ANPR Cameras automatically recognize a vehicle's plate number and display it on the control center screen. The Authorized List function with barrier integration enables quick and fluid passing of registered vehicles, preventing congestion at entrances and exits and improving traffic efficiency. The Parking Guidance System combines deep learning algorithms, video monitoring, and information dissemination technologies to give drivers dynamic, real-time information about parking availability within controlled bays. The system helps drivers find the closest parking spaces available. Then, by simply entering their plate number in full or in part, the vehicle can be easily located on the floor map as well as the best route to it.



Intelligent Traffic System Checkpoint System

The checkpoint capture system is designed for applications in urban roads and expressways. When a vehicle passes by, information such as the license plate, type, color, and radar-detected speed will be collected and utilized by our professional video management platform for further applications, such as intelligent vehicle searches, for example.

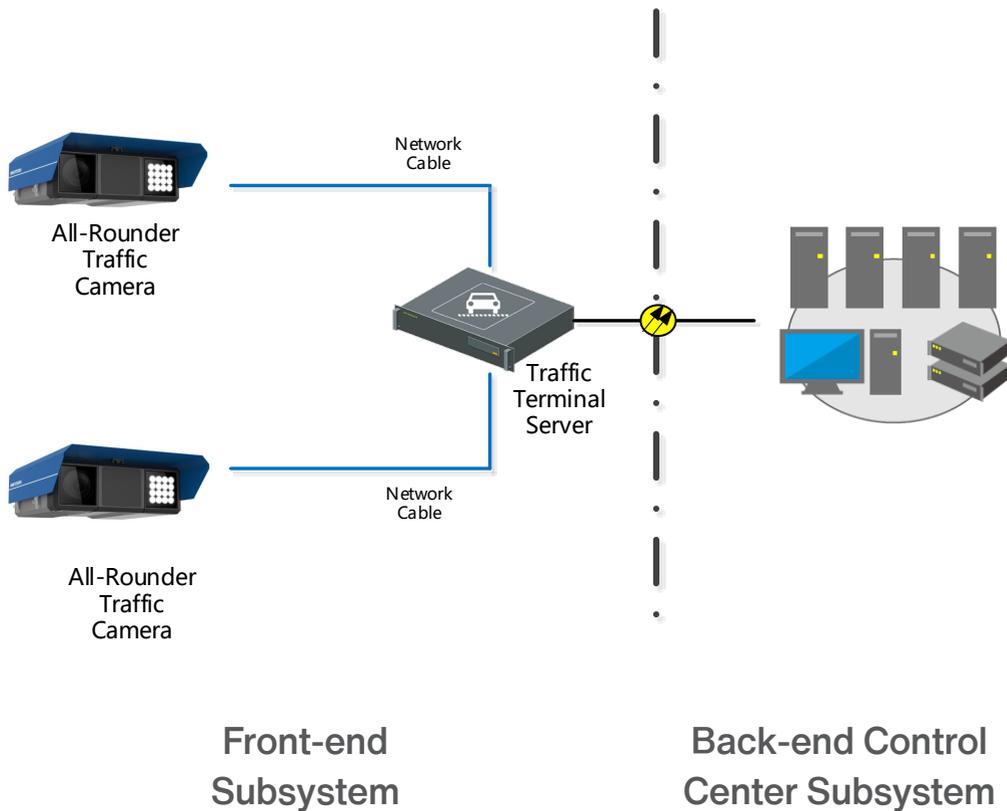
Hikvision launched innovative ITS cameras for traffic speed enforcement and violation detection. The new All-Rounder Traffic Camera is engineered with an all-in-one structure, embedding video, radar and supplemental light in one module, helping traffic authorities ramp up the detection of violations with easier installation and system operation.

- > High quality imaging with up to 9 MP resolution (1" GMOS)
- > Excellent low-light performance
- > Efficient H.265 compression technology
- > 3D DNR technology delivers clean and sharp images
- > High-precision Speed Detection Radar with a velocity range of 5 to 250 km/h
- > Supports automatic number plate recognition (ANPR)

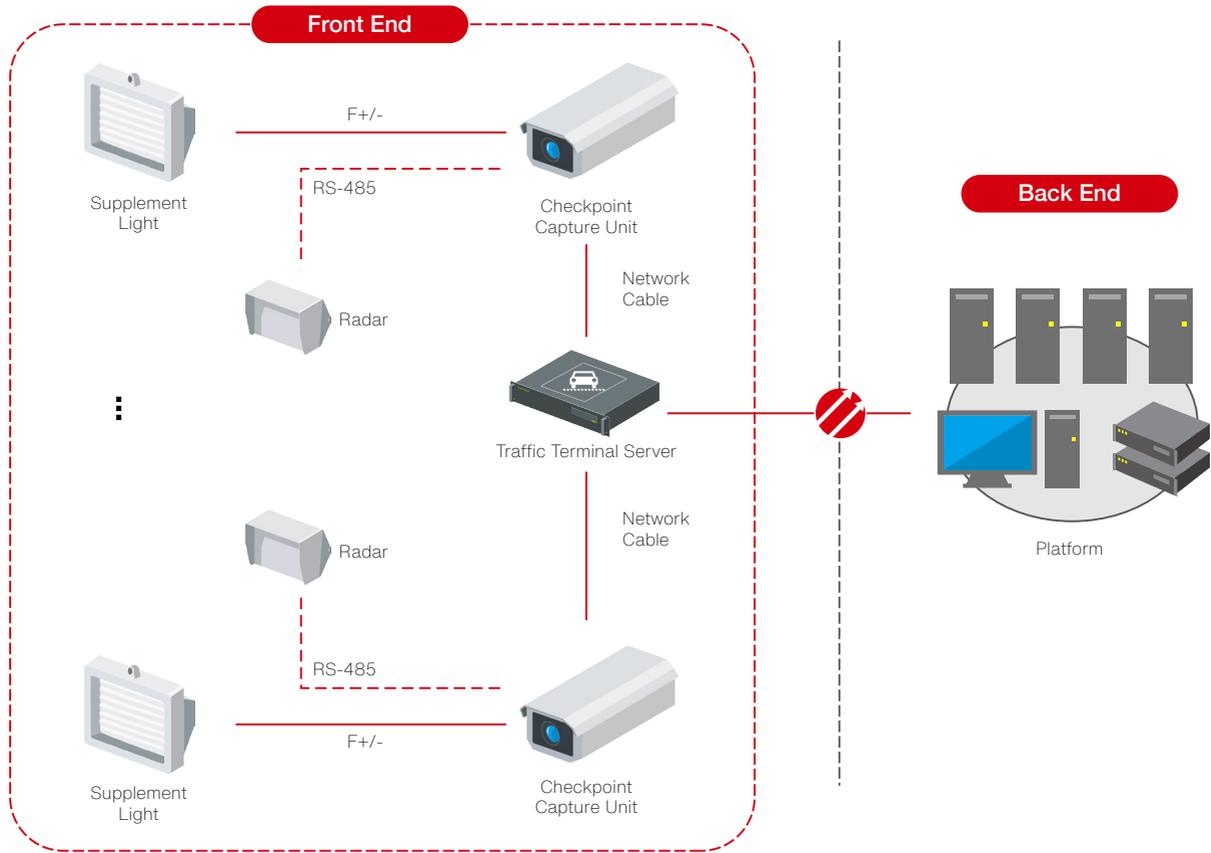
Vehicle feature recognition: Vehicle type / color / manufacturer / number plate color recognition / no-plate vehicle capture

Violation detection: Driving on lane line, Illegal lane change, wrong-way driving, seatbelt and phone use violations

Application scenarios: Highways, tunnels, toll stations, urban roads, etc.



Model	IDS-TCV507-BIR	IDS-TCV907-BIR
Image	 NEW	 NEW
	Deep Learning	Deep Learning
Image Sensor	2/3" GMOS	1" GMOS
Resolution	2464 × 2056	4096 × 2160
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Lens	15-50 mm	11-40mm
Light Range	Up to 40 m	Up to 40 m
Light Beads	16	16
Wavelength	850nm	850nm
Central Frequency	24.05 to 24.25 GHz	24.05 to 24.25 GHz
Measurement Accuracy	-4 to 0 km/h	-4 to 0 km/h
Velocity Range	10 to 300 km/h	10 to 300 km/h
Tracking Target	Up to 32	Up to 32
Double Trigger	Approaching direction, leaving direction, and both	Approaching direction, leaving direction, and both
Coverage	1-2 lanes	up to 3 lanes
LPR Accuracy	> 98%	> 98%
Smart Function	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle
Vehicle Color	Recognizable at daytime only	Recognizable at daytime only
Vehicle Manufacturer	Support	Support
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Driving on Lane Line Detection	Support	Support
Illegal Lane Change Detection	Support	Support
Wrong-way Driving Detection	Support	Support
Emergency Lane Occupation	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)
Seatbelt Detection	Support (with flash light)	Support (with flash light)
Phone Call Detection	Support (with flash light)	Support (with flash light)
Frame Rate	50 Hz: 50 fps; 60 Hz: 30 fps	50 Hz: 25 fp; 60 Hz: 30 fps
Protection Level	IP65	IP65
Local Storage	TF card, up to 128 GB	TF card, up to 128 GB
Weight	Approx. 7.2 kg (15.9 lb.)	Approx. 7.2 kg (15.9 lb.)
Dimensions (W × H × D)	With package: 375 × 372 × 141 mm (14.8 × 14.6 × 5.6 inch)	With package: 375 × 372 × 141 mm (14.8 × 14.6 × 5.6 inch)
Operating Temperature	-30 °C to 70 °C (-22 °F to 158 °F)	-30 °C to 70 °C (-22 °F to 158 °F)
Humidity	95% or less, non-condensing	95% or less, non-condensing
Power	36 VDC ± 20% / 100 to 240 VAC	36 VDC ± 20% / 100 to 240 VAC



Model	IDS-TCV500-BE/1550/H1	IDS-TCV500-BI/1550/H1	IDS-TCV900-BE/1140/H1	IDS-TCV900-BI/1140/H1
Image	 HOT Deep Learning	 HOT Deep Learning	 HOT Deep Learning	 HOT Deep Learning
Image Sensor	2/3" GMOS	2/3" GMOS	1" GMOS	1" GMOS
Resolution	2464 × 2056	2464 × 2056	4096 × 2160	4096 × 2160
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Lens	15-50 mm	15-50 mm	11-40mm	11-40mm
Light Range	Up to 30 m	Up to 30 m	Up to 27 m	Up to 27 m
Coverage	1-2 lanes	1-2 lanes	2-3 lanes	2-3 lanes
LPR Accuracy	> 98%	> 98%	> 98%	> 98%
Supplement Light	External strobe/flash/continuous light	External strobe/flash/continuous light	External strobe/flash/continuous light	External strobe/flash/continuous light
Smart Function	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle
Vehicle Color	Support	Recognizable at daytime only	Support	Recognizable at daytime only
Vehicle Manufacturer	Support	Support	Support	Support
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Driving on Lane Line Detection	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)
Illegal Lane Change Detection	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)
Wrong-Way Driving Detection	Support	Support	Support	Support
Emergency Lane Occupation	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)
Seatbelt Detection	Support (with flash light)	Support (with flash light)	Support (with flash light)	Support (with flash light)
Phone Call Detection	Support (with flash light)	Support (with flash light)	Support (with flash light)	Support (with flash light)
Capture Speed Range	5 to 250 km/h	5 to 250 km/h	5 to 250 km/h	5 to 250 km/h
Frame Rate	50 Hz: 50 fps 60 Hz: 30 fps	50 Hz: 50 fps 60 Hz: 30 fps	50 Hz: 25 fps 60 Hz: 30 fps	50 Hz: 25 fps 60 Hz: 30 fps
Protection Level	IP66	IP66	IP66	IP66
Local Storage	TF card, up to 128 GB	TF card, up to 128 GB	TF card, up to 128 GB	TF card, up to 128 GB
Weight	6.5 ± 0.5 kg (14.3 ± 1.1 lb)	6.5 ± 0.5 kg (14.3 ± 1.1 lb)	6.5 ± 0.5 kg (14.3 ± 1.1 lb)	6.5 ± 0.5 kg (14.3 ± 1.1 lb)
Dimensions (W × H × D)	With package: 175.68 × 137.5 × 443.99 mm (6.92 × 5.41 × 17.48 inch)	With package: 175.68 × 137.5 × 443.99 mm (6.92 × 5.41 × 17.48 inch)	Whith package: 175.68 × 137.5 × 443.99 mm (6.92 × 5.41 × 17.48 inch)	Whith package: 175.68 × 137.5 × 443.99 mm (6.92 × 5.41 × 17.48 inch)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	-40 °C to +60 °C (-40 °F to +140 °F)	-40 °C to +60 °C (-40 °F to +140 °F)	-40 °C to +60 °C (-40 °F to +140 °F)
Humidity	95% or less, non-condensing	95% or less, non-condensing	95% or less, non-condensing	95% or less, non-condensing
Power	24 VDC ± 20% / 100 to 240 VAC	24 VDC ± 20% / 100 to 240 VAC	24 VDC ± 20% / 100 to 240 VAC	24 VDC ± 20% / 100 to 240 VAC

Traffic Server

Model	DS-TP50-16E
Image	 HOT
Processor	High-performance ARM A17 processor
Operation System	Embedded Linux operation system
Operation Medium	WEB
Storage	4 SATA interfaces for 4 HDDs
Capacity	Up to 6 TB capacity for each HDD
External Storage	1 eSATA interface for 1 external HDD
Reset Button	1
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
Network Interface	16 x 1000 M Ethernet interface, 1 x internal 10/100/1000 M self-adaptive Ethernet interface, 1 x external 10/100/1000 M self-adaptive Ethernet interface, 1 x internal 1000 M fiber interface, 1 x external 1000 M fiber interface
Alarm Input	2 relay alarm inputs
Alarm Output	2 relay alarm outputs
Power Output	One 12 VDC power output
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Network	2 IP addresses of different network segment are configurable
Power Supply	Adaptor of 12 VDC/12.5 A
Dimension (W x D x H)	370 x 273 x 102.5 mm (14.6 x 10.7 x 4.0 inch)
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Working Humidity	10% to 90%

Radar

Model	iDS-TSV300-C
Image	 HOT
Operating Interface	WEB
HDD Storage	1 x 4 TB 3.5-inch SATA HDD (Default); 4 x 6 TB (Scalable)
Network Interface	Dual NIC design NIC 1: 9 x Gigabit Ethernet interface, 1 x combo SFP Gigabit fiber optic interface NIC 2: 1 x Gigabit Ethernet interface, 1 x SFP Gigabit fiber optic interface
Video Input	12-ch
USB Port	1
RS232	2
RS485	2
Display Lamp	Power indicator, alarm status indicator, HDD indicator, running status indicator
Operating System	Embedded Linux Operating System
Upload Function	Supports transportation data ANR and manual re-uploading.
Key	Power on/off, Reset
Power	12 VDC/12.5 A, 150 W
Dimension	370 mm x 273 mm x 102.5 mm (14.57 inch x 10.75 inch x 4.04 inch)
Operating Temperature	-30 °C to 70 °C (-86 °F to 158 °F)
Operating Humidity	10% to 90%

Model	DS-TD10N-1	DS-TD10M-1
Image		
Power Supply	9 -12 VDC	9 -12 VDC
Central Frequency	24.15 GHz	24.15 GHz
Center Frequency Deviation	≤ ±45 MHz	≤ ±45 MHz
Antenna Beam Width	6° x 6°	35° x 16°
Working Temperature Range	-40 °C to +70 °C	-40 °C to +70 °C
Working Humidity Range	5%RH-95%RH	5%RH-95%RH
Measurement Accuracy	-4-0 km/h	-4-0 km/h
Trigger Consistency	≤ ±1 m	≤ ±1 m
Velocity Range	10-250 km/h	10-250 km/h
Direction Information	Support	Support
Double Trigger	Support vehicle front & rear triggering	Support vehicle front & rear triggering
Multiple Lanes	Support up to 1 lane	Support up to 3 lanes
Wi-Fi Setting	Support	Support
Capture Distance	Single lane 18-28 m	18-28 m
Communication Interface	RS485 (RS232 optional)	RS485, Wi-Fi
Dimension	190 x 190 x 53 mm (7.48 x 7.48 x 2.09 inch)	166 x 139 x 40 mm (6.54 x 5.47 x 1.57 inch)

Supplement Light

Model	DS-TL2000AI-L1	DS-TL2000A-L1
Image		
Light Type	IR strobe supplement light	strobe supplement light
LED Lamp Beads	16	16
Color Temperature	-	5000 K - 7000 K
Angle of Light	10°	10°
Coverage	single lane	Single lane
Effective Distance	16-25 m	16-25 m
Trigger Manner	TTL level (switch trigger optional)	TTL level (switch trigger optional)
Trigger Level	4V - 6V (High level trigger)	4V - 6V (High Level Trigger)
Trigger Frequency	-	15 Hz-250 Hz
Trigger Duty Ratio	1% -39% (Enter the protection state at Duty Ratio ≥ 40%)	1% -39% (Enter the protection state at Duty Ratio ≥ 40%)
Response Time	≤ 20 us	≤ 20 us
Day and Night Function	Support ambient brightness detection, automatic start-up at low illumination (optional)	Support ambient brightness detection, automatic start-up at low illumination (optional)
Configuration	Ultra-high frequency flash delay setting	Ultra-high frequency flash delay setting
Service Life	≥ 50000 H	≥ 50000 H
Power Supply	220 VAC ±20%, 47Hz-63Hz 110 VAC ±20%, 47Hz-63Hz	220 VAC ±20%, 47Hz-63Hz 110 VAC ±20%, 47Hz-63Hz
Consumption	Max.36W (Determined by control model)	Max.36W(Determined by control model)
Operating Temperature	-40 °C to +70 °C	-40 °C to +70 °C
Operating Humidity	10%-90%, no condensation	10%-90%, no condensation
Weatherproof Rating	IP65	IP65
Dimension	128 mm (W) × 216 mm (H) × 159 mm (D)	128 mm (W) × 216 mm (H) × 159 mm (D)
Mounting Model	Support front-mounted and side-mounted installation (bracket rotation angle -90 ° to +90 °)	Support front-mounted installation (bracket rotation angle -90 ° to +90 °)
Weight	2.72 kg	2.72 kg

Model	DS-TL2002AI	DS-TL2002A
Image		
Light Type	IR strobe supplement light	strobe supplement light
LED Lamp Beads	28	28
Color Temperature	-	5000 K - 7000 K
Angle of Light	Support 10°, 40°optional	10°
Coverage	1-3 lanes	1.5 lane
Effective Distance	16-25 m	16-25 m
Trigger Manner	TTL level (switch trigger optional)	TTL level (switch trigger optional)
Trigger Level	4V - 6V (High level trigger)	4V - 6V (High Level Trigger)
Trigger Frequency	-	15 Hz - 250 Hz
Trigger Duty Ratio	1% -39% (Enter the protection state at Duty Ratio ≥ 40%)	1% -39% (Enter the protection state at Duty Ratio ≥ 40%)
Response Time	≤ 20 us	≤ 20 us
Day and Night Function	Support ambient brightness detection, automatic start-up at low illumination (optional)	Support ambient brightness detection, automatic start-up at low illumination (optional)
Configuration	Ultra-high frequency flash delay setting	Ultra-high frequency flash delay setting
Service Life	≥ 50000 H	≥ 50000 H
Power Supply	220 VAC ±20%, 47Hz-63Hz 110 VAC ±20%, 47Hz-63Hz	220 VAC ±20%, 47Hz-63Hz
Consumption	Max.60W (Determined by control model)	Max.60W (Determined by control model)
Operating	-40 °C to +70 °C	-40 °C to +70 °C
Operating Humidity	10%-90%, no condensation	10%-90%, no condensation
Weatherproof Rating	IP65	IP65
Dimension	322 mm (W) × 270.5 mm (H) × 118 mm (D)	322 mm (W) × 271 mm (H) × 118 mm (D)
Mounting Model	Support front-mounted and side-mounted installation (bracket rotation angle -90 ° to +90 °)	Support front-mounted installation (bracket rotation angle -90 ° to +90 °)
Weight	2.72 kg	2.72 kg

Model	DS-TL2002CI	DS-TL2002C	DS-TL2000CI
Image			
Light Type	IR continuous light	Continuous light	IR continuous light
LED Lamp Beads	28	28	16
Color Temperature	-	5000 K - 7000 K	-
Angle of Light	40°	40°	40°
Effective Distance	16-25 m	16-25 m	16-25 m
Response Time	≤ 20 us	≤ 20 us	≤ 20 us
Day and Night Function	Support ambient brightness detection, automatic start-up at low illumination	Support ambient brightness detection, automatic start-up at low illumination	Support ambient brightness detection, automatic start-up at low illumination
Brightness Control	Two grades of brightness control	Two grades of brightness control	-
Remote Control	Adopt remote start-up the supplement light via a control line	Adopt remote start-up the supplement light via a control line	-
Supplement Light	the fault output port output high voltage (typically 5V) [optional], when the light is turned on and the	the fault output port output high voltage (typically 5V) [optional], when the light is turned on and the	-
Exception Detection	supplement light output current is too large or too small	supplement light output current is too large or too small	-
Service Life	≥ 50000 H	≥ 50000 H	≥ 50000 H
Housing Material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Power Supply	220 VAC±20%, 47Hz-63Hz	220 VAC±20%, 47Hz-63Hz	220 VAC±20%, 47Hz-63Hz
Consumption	Max.60W, Lower Grade 30W (Determined by control model)	Max.60W, Lower Grade 30W (Determined by control model)	Max.36W (Determined by control model)
Operating Temperature	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C
Operating Humidity	10%-90%, no condensation	10%-90%, no condensation	10%-90%, no condensation
Weatherproof Rating	IP65	IP65	IP66
Dimension	322 mm (W) × 270.5 mm (H) × 118 mm (D)	322 mm (W) × 270.5 mm (H) × 118 mm (D)	128 mm (D) × 216 mm (H) × 159 mm (W)
Mounting Model	Support front-mounted (bracket rotation angle -90 ° to +90 °)	Support front-mounted (bracket rotation angle -90 ° to +90 °)	Support front-mounted (bracket rotation angle -90 ° to +90 °)
Weight	6.28 kg	6.28 kg	2.72 kg
Wave Length	≥ 850 nm (Infrared)	-	≥ 850 nm (Infrared)

Model	SL-1211-1	SL-1211-1I
Image		
Power Supply	AC220V±10% / 48Hz-52Hz	AC220V±10% / 48Hz-52Hz
Wave Length	-	≥ 850 nm (Infrared)
Color Temperature	5500 K ± 500 K	5500 K ± 500 K
Flash energy	200 J	200 J
Power Consumption	Average < 100 W (@ 1 flash / s), max < 300 W	Average < 100 W (@ 1 flash / s), max < 300 W
Peak flash duration	1 / 30 ms	1 / 30 ms
Response Time	Max. 67ms	Max. 67ms
Effective distance	16 m to 25 m	16 m to 25 m
Trigger Manner	TTL level	TTL level
Photosensitivity	Through photosensitivity to achieve different brightness during the day and night	Through photosensitivity to achieve different brightness during the day and night
Grating	Built-in grating (external grating optional); Effectively reducing light pollution	Built-in grating (external grating optional); Effectively reducing light pollution
Coverage	Single lane	Single lane
Operating Temperature	-25 - + 70 °C	-25 - + 70 °C
Operating Humidity	5%-90% (40 °C), no condensation	5%-90% (40 °C), no condensation
Service Life	≥20 Million times	≥20 Million times
Other Functions	Strobe Interval Protect	Strobe Interval Protect
Protection Level	IP65	IP65
Weight	3.5 Kg	3.5 Kg

Intelligent Traffic System

Portable Speed Detection System

The Portable Speed Detection System captures passing vehicles and detects speeds. The system can measure speeds, calculate positions, and record images on up to three lanes of two-way traffic, providing numerous applications for law enforcement.

- > 9 MP 1" GMOS sensor, Deep Learning ANPR
- > Built-in radar, 5-250 km/h speed measurement
- > Built-in GPS module
- > 720p touchscreen design with Android OS
- > 500 GB SSD for image and video storage
- > Built-in battery, 8 hours of continuous operation
- > H.265 video compression

Portable Speed Detector

Model	IDS-TDI900-A/C
Image	
Central Frequency	24.15 GHz ± 45 MHz
Velocity Rang	10 - 250 km/h
Measurement Accuracy	-4 - 0 km/h
Trigger Mode	Trigger vehicle head, trigger vehicle tail, and trigger vehicle head and tail
Video Compress Mode	H.264/H.265/MJPEG
Maximum Image Resolution	4096 × 2160
Frame Rate	25 fps (4096 × 2160)
Intelligent Recognition	LPR, Lane number
Communication Interface	1 RJ45 10M/100M/1000M self-adjustable Ethernet interface and 1 RS-485
Position	Built-in GPS
Working Condition((with battery))	Operating temperature: -20 °C-60 °C. Humidity< 90%(No condensation)
Power Supply	Built-in 11.4V Lithium battery for 8 h working
Weight	9 kg
Power Consumption	Max.25 W

Intelligent Traffic System

Radar-Assisted Speed Measuring System for Enclosed Area

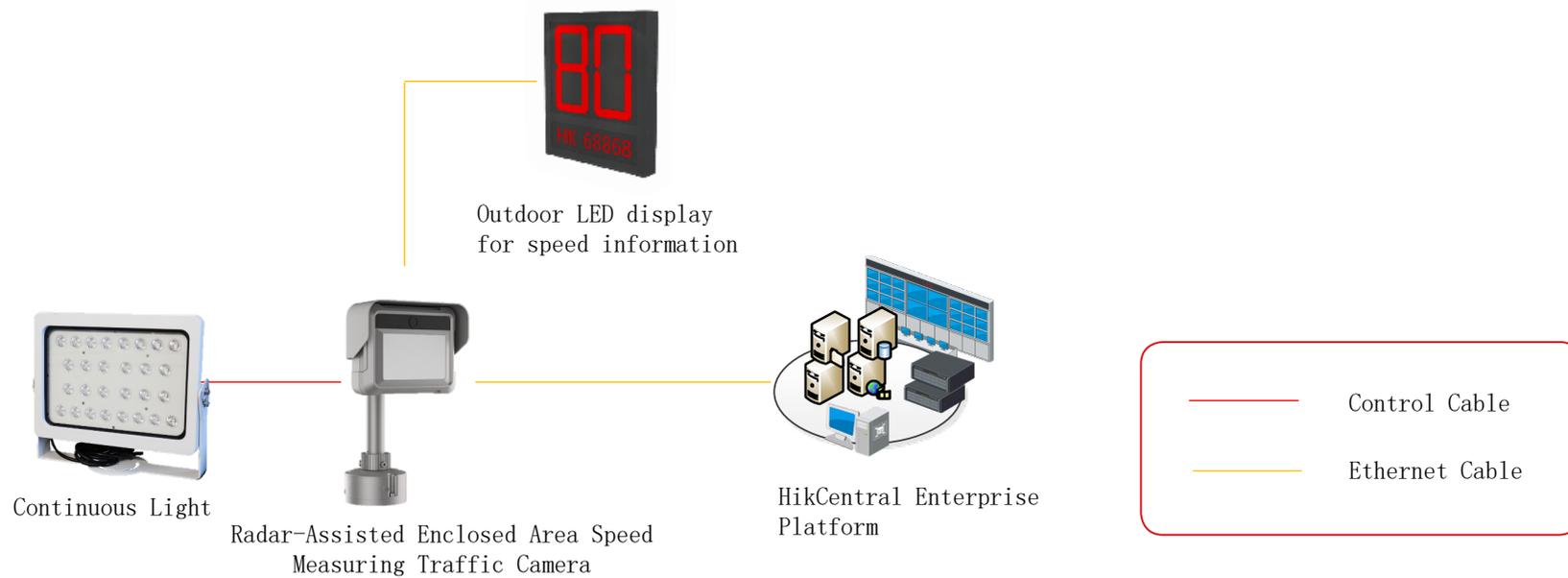
The Radar-Assisted Speed Measuring System for Enclosed Areas can measure vehicle speeds accurately, capture passing vehicle images, and recognize vehicle features, showing the real-time speed and ANPR results on screen. It can regulate driving behaviors, reduce traffic accident rate and guarantee pedestrians and vehicles safety. The solution also helps reduce noise pollution and swirling dust in enclosed areas such as industrial parks and office parks.

- > ANPR recognition for multiple lanes
- > Vehicle tracking for speed measurement
- > Convenient configuration & delivery
- > Real-time speed & ANPR info display
- > Multiple display modes for notification and warning
- > Over-speed alarms



Model	ids-TCS402-B/CS
Image	 NEW Deep Learning
Frequency Band	77 GHz
Wave Length	4 mm
Speed Detection Range	1 to 120 km/h
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON) B/W: 0.001 Lux @ (F1.2, AGC ON)
Day/Night Switch	ICR
Focal Length	16mm
Video Compression	H.265/H.264
Max. Resolution	2712 × 1536
Video Frame Rate	25fps
Smart Function	LPR; Vehicle feature recognition: vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection
Coverage	2 lanes
Multi-Target Detection	Able to track and detect max. 128 targets.
Network Interface	2, RJ45 100M/1000M self-adaptive Ethernet interface
Serial Port	1, RS-485 interface 1, RS-232 interface
Output Interface	1-ch level output
Protection Level	IP66
Operating & Storage Temperature	-30 °C to +70 °C [-22 °F to +158 °F]
Operating & Storage Humidity	<95% (non-condensing)
Dimensions	226 × 206.4 × 375.3 mm (8.9 × 8.1 × 14.8 inch)
Power Supply	24 VAC ± 10%
Power Consumption	< 15 W
Weight	3 kg (6.6 lb)

Model	DS-TVL224-8-5EY
Image	 NEW
Display for Speed	
Character Standard	Number 8
Character Number	2
Color	Red, Green, Yellow
Size	Width: 641 mm, Height: 540 mm (approximately)
Display for License Plate	
Character Standard	P10
Color	Red, Green, Yellow
Size	Width: 641 mm, height: 161 mm (approximately)
Resolution	64 × 16
Whole Display	
Luminance	5,000 cd/ m ²
Max. Visual Range	50m
Power Supply	100 to 240 VAC
Max. Power Consumption	200W
Materials	Aluminum plate
Dimension	Width: 740 mm, Height: 850 mm, Depth: 90 mm
Weight	25kg



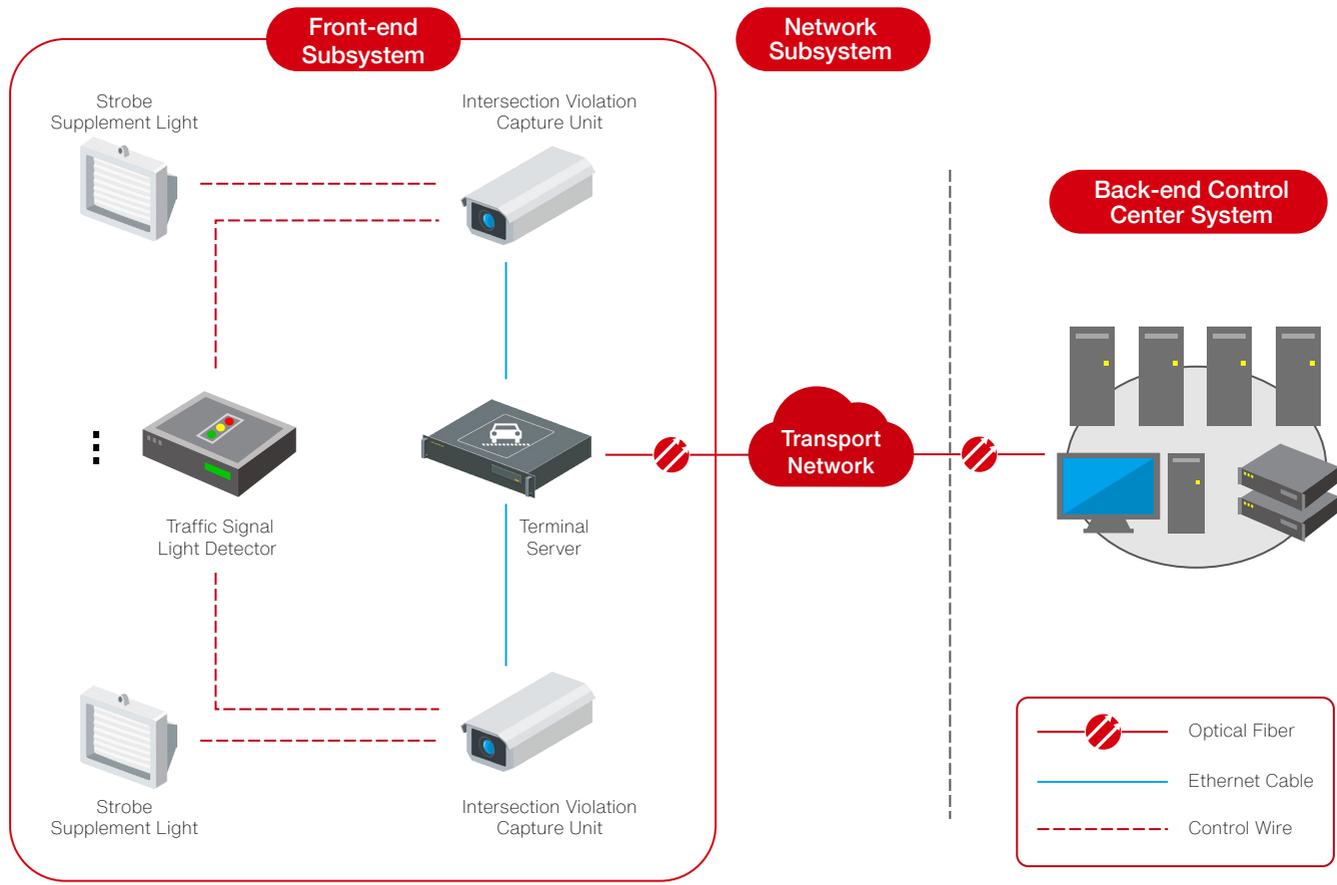


Intelligent Traffic System

Intersection Violation System

The Intersection Violation System is designed for use at road intersections to capture illegal driving behaviors. These components provide strong incentives to drivers to abide by all road rules, prevent accidents, and improve traffic efficiency.

- > High quality imaging with up to 9 MP resolution (1" GMOS)
- > Excellent low-light performance, Color: 0.001 lux @ (F1.4, AGC ON)
- > Efficient H.265 compression technology
- > 3D DNR technology delivers clean and sharp images
- > Supports automatic number plate recognition (ANPR)
- > Vehicle feature recognition: vehicle type / vehicle color / manufacturer / number plate color recognition / no-plate vehicle capture
- > Violation behaviors detection: running the red light, driving on lane line, illegal lane change, wrong-way driving detection, seatbelt and phone call detection.
- > Application scenarios: intersection, T junction, other red light roads, etc.



Intersection Violation Unit

Model	iDS-TCE500-B/1550/H1	iDS-TCE900-B/1140/H1
Image	 HOT Deep Learning	 HOT Deep Learning
Image Sensor	2/3" GMOS	1" GMOS
Resolution	2464 × 2056	4096 × 2160
Video Compression	H.264/H.265/MJPEG	H.265/H.264/MJPEG
Light Range	15-50 mm	11-40 mm
Working Distance	Up to 30 m	Up to 27 m
Coverage	1 -2 lanes	2-3 lanes
LPR Accuracy	> 98%	> 98%
Supplement Light	External strobe/flash/continuous light	External strobe/flash/continuous light
Traffic Light Detection	Signal detector analysis/video analysis	Signal detector analysis/video analysis
Smart Function	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection
Illegal Violation Detection	Running the red light, Wrong-way driving, Illegal lane change, Solid line driving, Driving in wrong lane at intersection, Illegal U-turn detection	Running the red light, Wrong-way driving, Illegal lane change, Solid line driving, Driving in wrong lane at intersection, Illegal U-turn detection
No License Plate Detection	Support	Support
Motorbike LPR	Support	Support
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle
Vehicle Color	Support	Support
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Frame Rate	50 Hz: 50 fps; 60 Hz: 30 fps	50 Hz: 25 fps; 60 Hz: 30 fps
Protection Level	IP66	IP66
Local Storage	micro SD/TF card, up to 128 GB	micro SD/TF card, up to 128 GB
Weight	6.5 ± 0.5 kg [14.3 ± 1.1 lb]	6.5 ± 0.5 kg [14.3 ± 1.1 lb]
Dimensions (W × H × D)	With package: 175.68 × 137.5 × 443.99 mm (6.92" × 5.41" × 17.48")	With package: 175.68 × 137.5 × 443.99 mm (6.92" × 5.41" × 17.48")
Operating Temperature	-40 °C to +60 °C [-40 °F to +140 °F]	-40 °C to +60 °C [-40 °F to +140 °F]
Humidity	95% or less, non-condensing	95% or less, non-condensing
Power	24 VDC ± 20%/100 to 240 VAC	24 VDC ± 20%/100 to 240 VAC

Traffic Signal Detector

Model	TLD-2016-6
Image	
Interface of AC Signal	16ch
RS485 Output Interface	6
DC Output Interface	5V dc ouput
Pin Switch	5ch
Light of Status	16
Range of Detection Voltage	140 VAC-270 VAC, 50Hz/60Hz
Working Voltage	220 VAC @ 50Hz/60Hz, 100 VAC-240 VAC
Consumption	<5 W
Environment Temperature	-30°C to +70°C
Environment Humidity	5%-95% @ 40°C
Dimensions	440 × 44 × 213.5 mm (17.32 × 1.73 × 8.41 inch)

Traffic Server

Model	DS-TP50-16E
Image	 HOT
Processor	High-performance ARM A17 processor
Operation System	Embedded Linux operation system
Storage	4 SATA interfaces for 4 HDDs
Capacity	Up to 6 TB capacity for each HDD
Reset Button	1
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
Network Interface	16 x 1000 M Ethernet interface, 1 x internal 10/100/1000 M self-adaptive Ethernet interface, 1 x external 10/100/1000 M self-adaptive Ethernet interface, 1 x internal 1000 M fiber interface, 1 x external 1000 M fiber interface
Alarm Input	2 relay alarm inputs
Alarm Output	2 relay alarm outputs
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Network	2 IP addresses of different network segment are configurable
Power Supply	Adaptor of 12 VDC/12.5 A
Dimension (W × D × H)	370 mm × 273 mm × 102.5 mm (14.6 × 10.7 × 4.0 inch)
Working Temperature	-40 °C to +70 °C [-40 °F to +158 °F]
Working Humidity	10% to 90%

Supplement Light

Model	DS-TL2000A-L1
Image	
Light Type	Strobe supplement light
LED Lamp Beads	16
Color Temperature	5000 K - 7000 K
Angle of Light Coverage	10 ° Single lane
Effective Distance	16-25 m
Trigger Manner	TTL level (switch trigger optional)
Trigger Level	4V - 6V (High Level Trigger)
Trigger Frequency	15 Hz-250 Hz
Trigger Duty Ratio	1% -39% (Enter the protection state at Duty Radio ≥ 40%)
Response Time	≤ 20 us
Day and Night Function	Support ambient brightness detection, automatic start-up at low illumination (optional)
Configuration	Ultra-high frequency flash delay setting
Service Life	≥ 50000 H
Power Supply	220 VAC ±20%, 47Hz-63Hz; 110 VAC ±20%, 47Hz-63Hz
Consumption	Max.36W (Determined by control model)
Operating Temperature	-40°C to +70°C
Operating Humidity	10%-90%, no condensation
Weatherproof Rating	IP65
Dimension	128 mm × 216 mm × 159 mm (5.04× 8.5 × 6.26 inch)
Mounting Model	Support front-mounted installation (bracket rotation angle -90 ° to +90 °)
Weight	2.72 kg

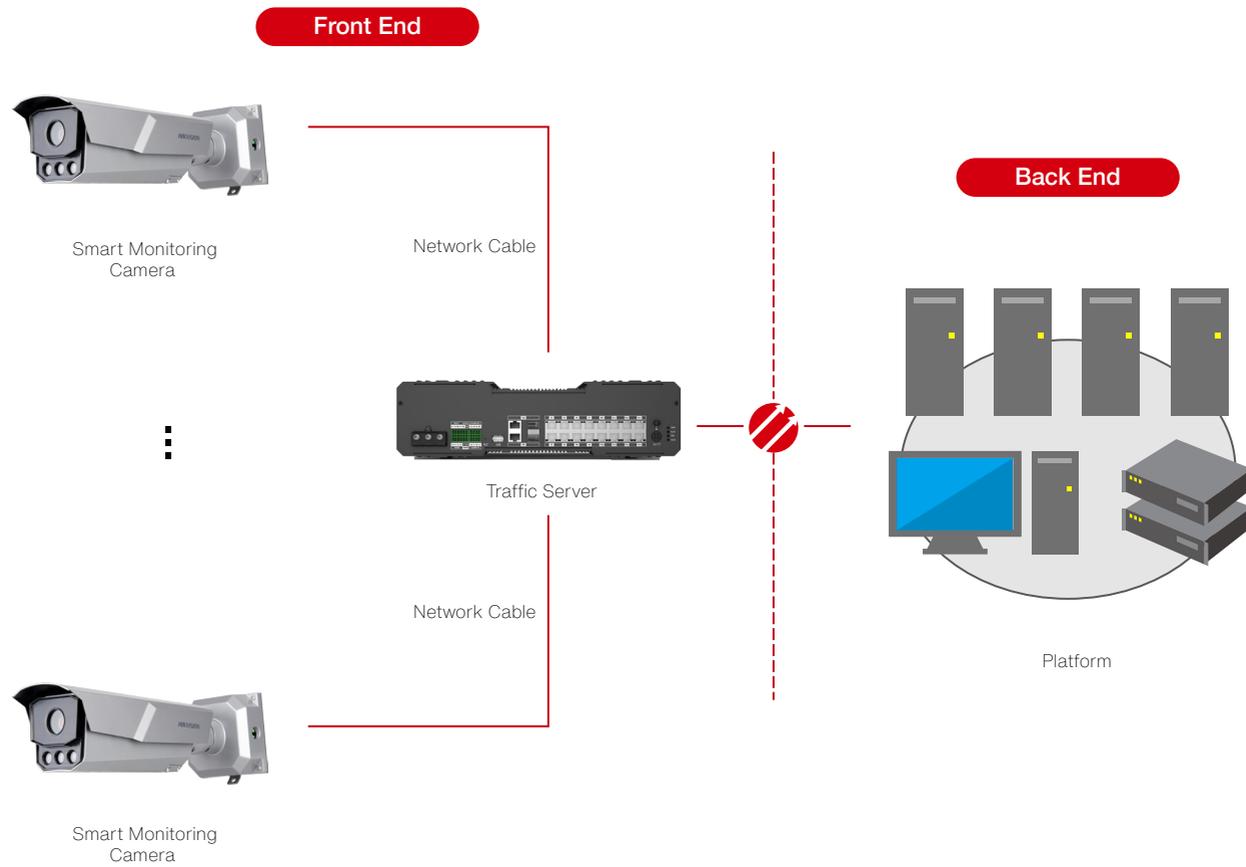


Intelligent Traffic System Smart Monitoring System

This system is easy to install and improves efficiency. It monitors large areas and supports vehicle capture and ANPR.

DarkFighter technology gives this system excellent image performance at all light levels.

- › High quality imaging with up to 4 MP resolution (1/1.8" CMOS)
- › Clear imaging against strong back light with 140 dB WDR technology
- › Excellent low-light performance with DarkFighter technology
- › Motorized vari-focal lens for easy installation and monitoring
- › Efficient H.265 compression technology
- › Smart functions: ANPR, vehicle type, vehicle color, and manufacturer recognition, no-plate vehicle capture, driving direction detection, and motorcycle capture
- › Application scenarios: tunnels, toll stations, urban roads, parking entrances



Model	IDS-TCM203-A	IDS-TCM403-A	IDS-TCM403-AI
Image	 <p style="text-align: right;">HOT</p> <p style="text-align: right;">Deep Learning</p>	 <p style="text-align: right;">HOT</p> <p style="text-align: right;">Deep Learning</p>	 <p style="text-align: right;">HOT</p> <p style="text-align: right;">Deep Learning</p>
Focal Length	IDS-TCM203-A/0832 (850 nm)/IDS-TCM203-A/0832: 8-32 mm IDS-TCM203-A/5313 (850 nm)/IDS-TCM203-A/5313: 5.3-13 mm	IDS-TCM403-A/0411: 4-11 mm IDS-TCM403-A/0832: 8-32 mm	IDS-TCM403-AI/0411: 4-11 mm IDS-TCM403-AI/0832: 8-32 mm
Light Range	5.3-13 mm: Up to 50 m / 8-32 mm: Up to 100 m	4-11 mm: Up to 50 m / 8-32 mm: Up to 100 m	4-11 mm: Up to 50 m / 8-32 mm: Up to 100 m
Coverage	1-2 lanes	1-3 lanes	1-3 lanes
Capture Speed Range	5 to 120 km/h	5 to 120 km/h	5 to 120 km/h
Capture Accuracy	98%	98%	98%
LPR Accuracy	98%	98%	98%
Frame Rate	50 HZ: 1920 × 1080 @ 50 fps 60 HZ: 1920 × 1080 @ 60 fps	50 HZ: 2688 × 1520 @ 25 fps 60 HZ: 2688 × 1520 @ 30 fps	50 HZ: 2688 × 1520 @ 25 fps 60 HZ: 2688 × 1520 @ 30 fps
Vehicle Type	Car/Van/Bus/Truck/Others (08-32 mm)	Car/Van/Bus/Truck/Others (08-32 mm)	Car/Van/Bus/Truck/Others (08-32 mm)
Vehicle Color	Support (08-32 mm)	Support (08-32 mm)	Recognizable at daytime only (08-32 mm)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264/MJPEG
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Serial Port	2 RS-485 ports, 1 RS-232 port	2 RS-485 ports, 1 RS-232 port	2 RS-485 ports, 1 RS-232 port
By Video	Continuous video analysis with automatic vehicle detection, even without plate.	Continuous video analysis with automatic vehicle detection, even without plate.	Continuous video analysis with automatic vehicle detection, even without plate.
ANPR Camera	2 MP (1/1.8" CMOS), max.1920 × 1080	4 MP (1/1.8" CMOS), max.2688 × 1520	4 MP (1/1.8" CMOS), max.2688 × 1520
Supplement Light	3 LED lights	3 LED lights	3 LED IR lights
Protection Level	IP67, IK10	IP67, IK10	IP67, IK10
Storage	TF card, up to 128 GB	TF card, up to 128 GB	TF card, up to 128 GB
Operating & Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)
Operating & Storage Humidity	Humidity: 95% or less (non-condensing)	Humidity: 95% or less (non-condensing)	Humidity: 95% or less (non-condensing)
Dimensions (W × H × D)	428.5 × 120 × 132.8 mm (16.87 × 4.72 × 5.23 inch)	428.5 × 120 × 132.8 mm (16.87 × 4.72 × 5.23 inch)	428.5 × 120 × 132.8 mm (16.87 × 4.72 × 5.23 inch)
Weight	3.12 ± 0.5 kg (6.88 ± 1.1 lb)	3.12 ± 0.5 kg (6.88 ± 1.1 lb)	3.12 ± 0.5 kg (6.88 ± 1.1 lb)
Power Supply	12 VDC to 24 VDC ± 20%	12 VDC to 24 VDC ± 20%, PoE (802.3at, class 4)	12 VDC to 24 VDC ± 20%, PoE (802.3at, class 4)

Traffic Server

Model	DS-TP50-16E
Image	 HOT
Processor	High-performance ARM A17 processor
Operation System	Embedded Linux operation system
Storage	4 SATA interfaces for 4 HDDs
Capacity	Up to 6 TB capacity for each HDD
Reset button	1
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
Network Interface	116 x 1000 M Ethernet interface, 1 x internal 10/100/1000 M self-adaptive Ethernet interface, 1 x external 10/100/1000 M self-adaptive Ethernet interface, 1 x internal 1000 M fiber interface, 1 x external 1000 M fiber interface
Alarm Input	2 relay alarm inputs
Alarm Output	2 relay alarm outputs
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Network	2 IP addresses of different network segment are configurable
Power Supply	Adaptor of 12 VDC / 12.5 A
Dimension (W × D × H)	370 × 273 × 102.5 mm (14.6 × 10.7 × 4.0 inch)
Working Temperature	-40 °C to +70 °C [-40 °F to +158 °F]
Working Humidity	10% to 90%

Continuous Supplement Light

Model	DS-TL2002CI	DS-TL2002C	DS-TL2000CI
Image			
Light Type	IR continuous light	Continuous light	IR continuous light
LED Lamp Beads	28	28	16
Color Temperature	-	5000 K - 7000 K	-
Angle of Light	40°	40°	40°
Effective Distance	16-25 m	16-25 m	16-25 m
Response Time	≤ 20 us	≤ 20 us	≤ 20 us
Day and Night Function	Support ambient brightness detection, automatic start-up at low illumination	Support ambient brightness detection, automatic start-up at low illumination	Support ambient brightness detection, automatic start-up at low illumination
Brightness Control	Two grades of brightness control	Two grades of brightness control	-
Remote Control	Adopt remote start-up the supplement light via a control line	Adopt remote start-up the supplement light via a control line	-
Supplement Light	The default output port outputs high voltage (typically 5V) [optional], when the light is turned on and the supplement light output current is too large or too small	The default output port outputs high voltage (typically 5V) [optional], when the light is turned on and the supplement light output current is too large or too small	-
Exception Detection	Supplement light output current is too large or too small	Supplement light output current is too large or too small	-
Service Life	≥ 50000 H	≥ 50000 H	≥ 50000 H
Housing Material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Power Supply	220 VAC ±20%, 47Hz-63Hz	220 VAC ±20%, 47Hz-63Hz	220 VAC ±20%, 47Hz-63Hz
Consumption	Max. 60 W, Lower Grade 30 W (Determined by control model)	Max. 60 W, Lower Grade 30 W (Determined by control model)	Max. 36 W (Determined by control model)
Operating Temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Operating Humidity	10%-90%, no condensation	10%-90%, no condensation	10%-90%, no condensation
Water Proof Rating	IP65	IP65	IP66
Dimension	322 mm × 270.5 mm × 118 mm (12.68 × 10.65 × 4.65 inch)	322 mm × 270.5 mm × 118 mm (12.68 × 10.65 × 4.65 inch)	128 mm × 216 mm × 159 mm (5.04 × 8.50 × 6.26 inch)
Mounting Model	Support front-mounted (bracket rotation angle -90° to +90°)	Support front-mounted (bracket rotation angle -90° to +90°)	Support front-mounted (bracket rotation angle -90° to +90°)
Weight	6.28 kg	6.28 kg	2.72 kg
Wave Length	≥ 850 nm (Infrared)	-	≥ 850 nm (Infrared)

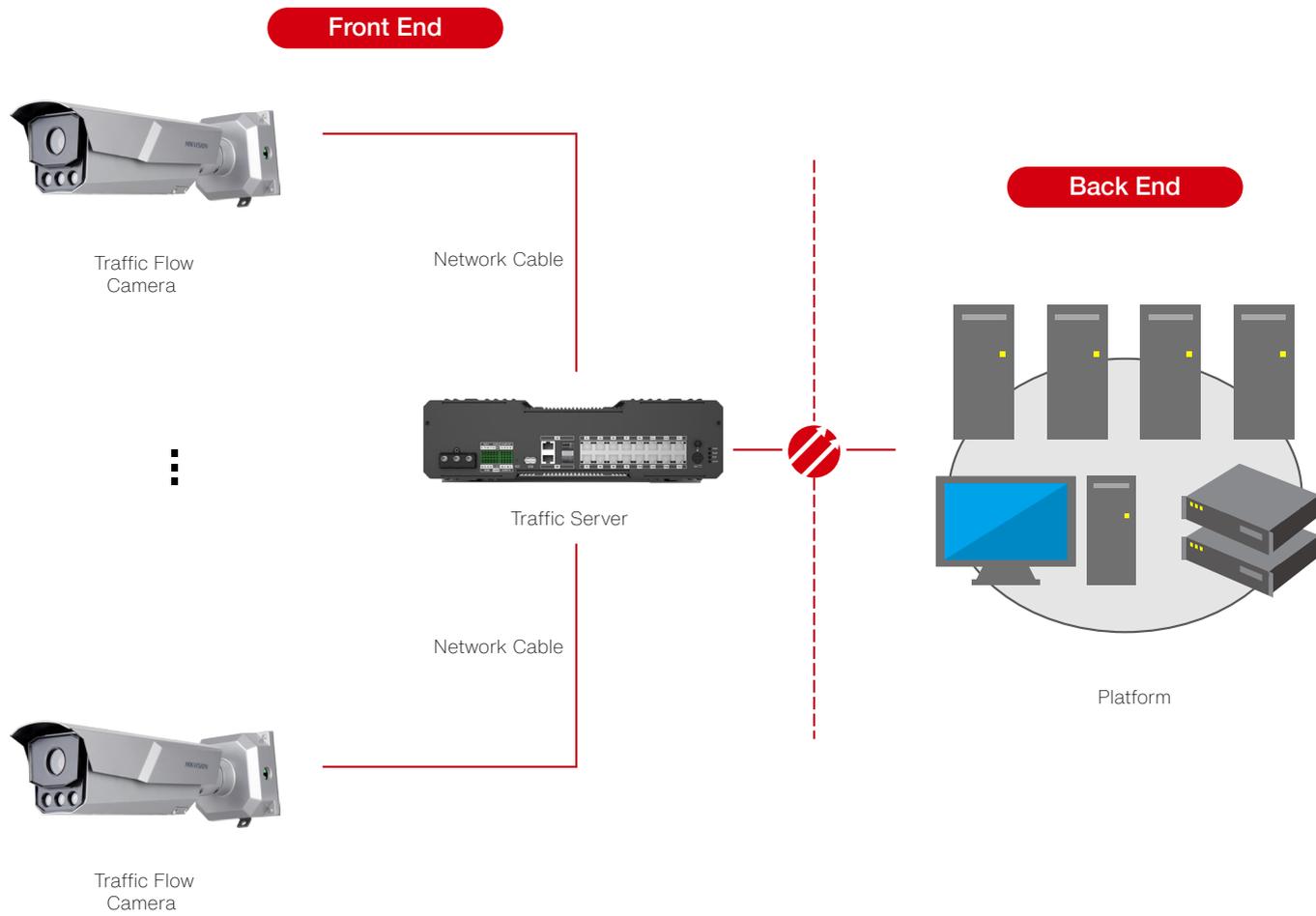


Intelligent Traffic System

Traffic Flow Detection System

The Traffic Flow Detection System counts vehicles and provides other traffic-related data. Captured data can be displayed to drivers via traffic guidance screens, as well as for signal control, in order to best guide the traffic and alleviate congestion.

- > One camera covers 3-4 lanes of traffic flow detection and monitoring
- > Great performance at night
- > Easy to install
- > Cost-effective
- > Maximized storage space
- > Built-in 77 GHz high-frequency radar combined with 4 MP camera, covering 200 meters and supporting 2-lane ANPR with a speed deviation of -4 km/h (IDS-TCD402-CR/12)
- > System features Lane Flow, Average Vehicle Speed, Lane Traffic Status (Smooth, Slow, Congested), Lane Queue Length, Congestion Level, Time Headway, Space Headway, Time Occupancy, Space Occupancy, Vehicle Type (Large, Small, Motorcycle)



Traffic Flow Detection Unit

Model	IDS-TCD203-A
Image	 <p style="text-align: right;">HOT</p> <p style="text-align: right;">Deep Learning</p>
Working Distance Up	Up to 50 m
Coverage	Up to 4 lanes (3 lanes recommended for best performance)
Installation Height	6 m - 15 m
Detection (Traffic Flow)	>95%
Real-time Output	Lane Flow, Average Vehicle Speed, Lane Traffic Status (Smooth, Slow, Congested), Lane Queue Length, Congestion Level
Periodic Output	Time Headway, Space Headway, Time Occupancy, Space Occupancy, Vehicle Type (Large, Small, Motorcycle)
LED Supplement Lights	Build-in 3 LED supplement lights
Camera	2 MP (1/1.8" CMOS), max. 1920 × 1080
Frame Rate	50Hz: 1920 × 1080 @ 50 fps 60Hz: 1920 × 1080 @ 60 fps
Video Compression	H.265/H.264
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Serial Port	2 RS - 485 ports, 1 RS - 232 port
By Video	Continuous video analysis with automatic vehicle detection, even without plate.
Lens	8-32 mm @ F1.4, angle of view: 42.5°-13.4°
Protection Level	IP67, IK10
Storage	TF card, up to 128 GB
Operating & Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating & Storage Humidity	5% to 95% @ +40 °C (+104 °F), non-condensing
Dimensions (W × H × D)	120 × 132.8 × 428.5 mm (4.72 × 5.23 × 16.87 inch)
Weight	3.12 ± 0.5 kg (6.88 ± 1.1 lb)
Power Supply	24 VDC

Radar-Assisted Traffic Camera

Model	IDS-TCD402-BR
Image	 <p style="text-align: right;">HOT</p> <p style="text-align: right;">Deep Learning</p>
Frequency Band	77 GHz
Wave Length	4 mm
Speed Detection Range	1 to 200 km/h
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON) B/W: 0.001 Lux @ (F1.2, AGC ON)
Day/Night Switch	ICR
Focal Length	12mm
Video Compression	H.265/H.264
Max. Resolution	2688 × 1520
Video Frame Rate	25fps
Traffic Data Collection	Multiple traffic data output, including lane line, traffic flow, speed, status, queue, time headway, space headway, number of parking vehicle in area, average delay, space occupancy, time occupancy, etc. Supports real-time display of smart dynamic information.
Detection Range	200 m coverage in range of the scene
Multi-Target Detection	Able to track and detect max. 128 targets.
Virtual Coil	Two virtual coils for each lane. Signal output of vehicle entering and exiting virtual coils. Positions of virtual coils are adjustable.
Road Status	Smooth, slow, congested status detection
Network Interface	2, RJ45 100M/1000M self-adaptive Ethernet interface
Serial Port	1, RS-485 interface 1, RS-232 interface
Output Interface	1-ch level output
Protection Level	IP66
Operating & Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating & Storage Humidity	<95% (non-condensing)
Dimensions	226 × 206.4 × 375.3 mm (8.9 × 8.1 × 14.8inch)
Power Supply	24 VAC ± 10%
Power Consumption	< 15 W
Weight	3 kg (6.6 lb)

Traffic Server

Model	DS-TP50-16E
Image	 <p style="text-align: right;">HOT</p>
Processor	High-performance ARM A17 processor
Operation System	Embedded Linux operation system
Storage	4 SATA interfaces for 4 HDDs
Capacity	Up to 6 TB capacity for each HDD
Reset button	1
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
Network Interface	16 x 1000 M Ethernet interface, 1 x internal 10/100/1000 M self-adaptive Ethernet interface, 1 x external 10/100/1000 M self-adaptive Ethernet interface, 1 x internal 1000 M fiber interface, 1 x external 1000 M fiber interface
Alarm Input	2 relay alarm inputs
Alarm Output	2 relay alarm outputs
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Network	2 IP addresses of different network segment are configurable
Power Supply	Adaptor of 12 VDC/12.5 A
Dimension (W × D × H)	370 × 273 × 102.5 mm (14.6 × 10.7 × 4.0 inch)
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Working Humidity	10% to 90%

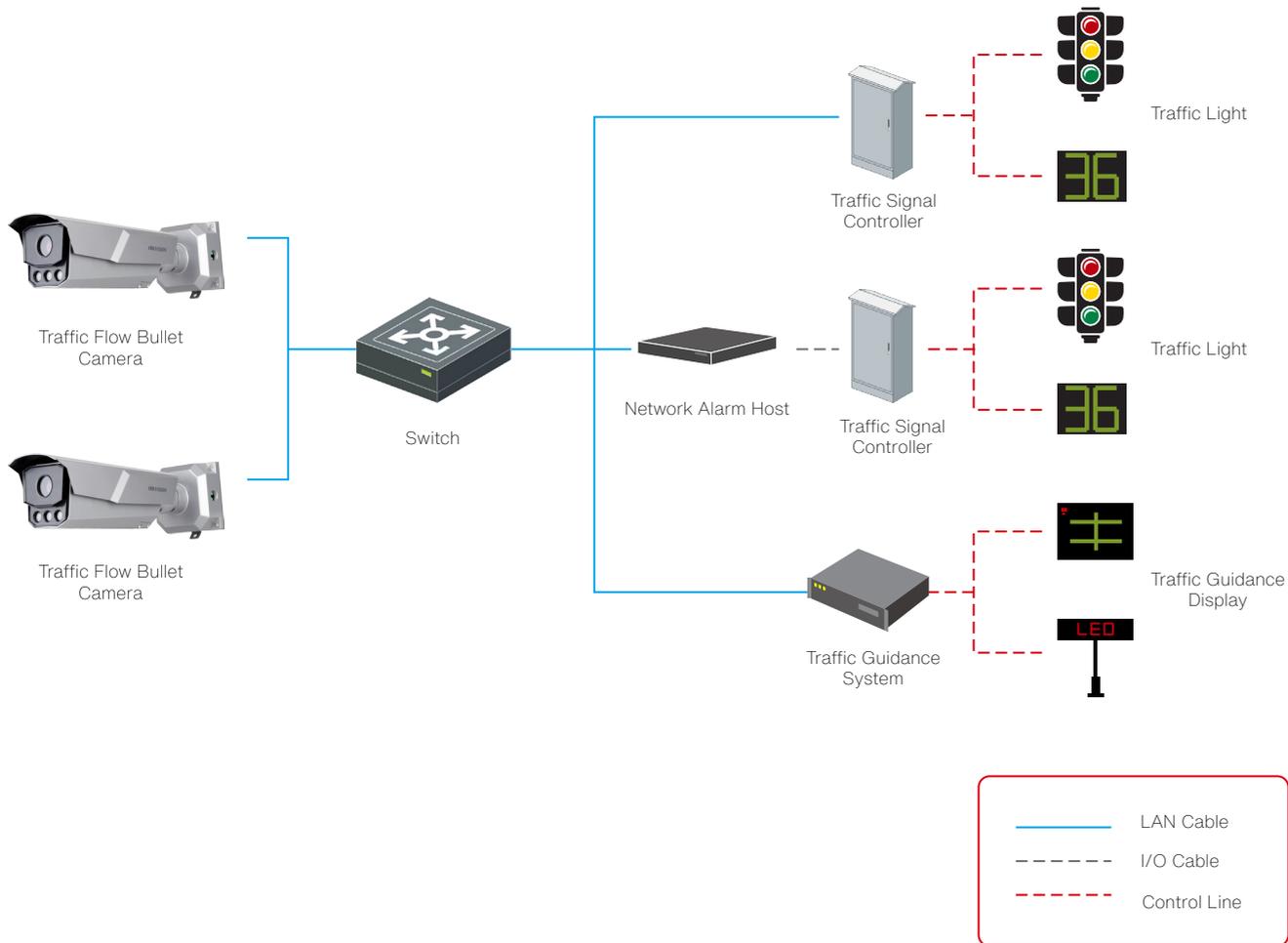


Intelligent Traffic System

Traffic Signal Control System

Traffic Signal Controllers optimize the order of traffic signals on roadways, adjusting traffic light (red or green) cycle lengths and controlling their operation. The system helps traffic personnel make full use of road resources and alleviate congestion.

- › Using ARM9 series 32-bit chip, which can provide strong calculation and communication ability
- › Modular design method, easy to install and maintain
- › Using open, standard communication protocol, easy to extend
- › Equipped with control and display panel, which facilitates real-time monitoring and manual adjustment of the signal status
- › Auto monitor for the status of communication devices and light device, it will alert when problem happens and react automatically
- › Equipped with independent yellow flash controller, not controlled by firmware, to enhance the security level
- › GPS Timing



Traffic Signal Controller

Model	DS-TSC300-44H
Image	
Vehicle Detect Panel	N/A
Light Control Panel	4
Communication Protocol	Professional Protocol
Network Interface	1 100M Ethernet Interface
Other Interfaces	2 RS-232; 2 RS-485; 1 USB
External Input	Support 8-ch Pedestrian Button Input
External Output	44-ch independent control output
Operating Voltage	220 VAC ±44V, 50Hz ±2Hz
Operating Ambient Temperature	-40°C to +70°C
Operating Ambient Humidity	45%-95%, non-condensing
Power Dissipation	< 35 W
Level of Protection	IP54
Dimensions	600 × 1084 × 450 mm (23.62 × 42.68 × 17.72 inch)

Intelligent Traffic System

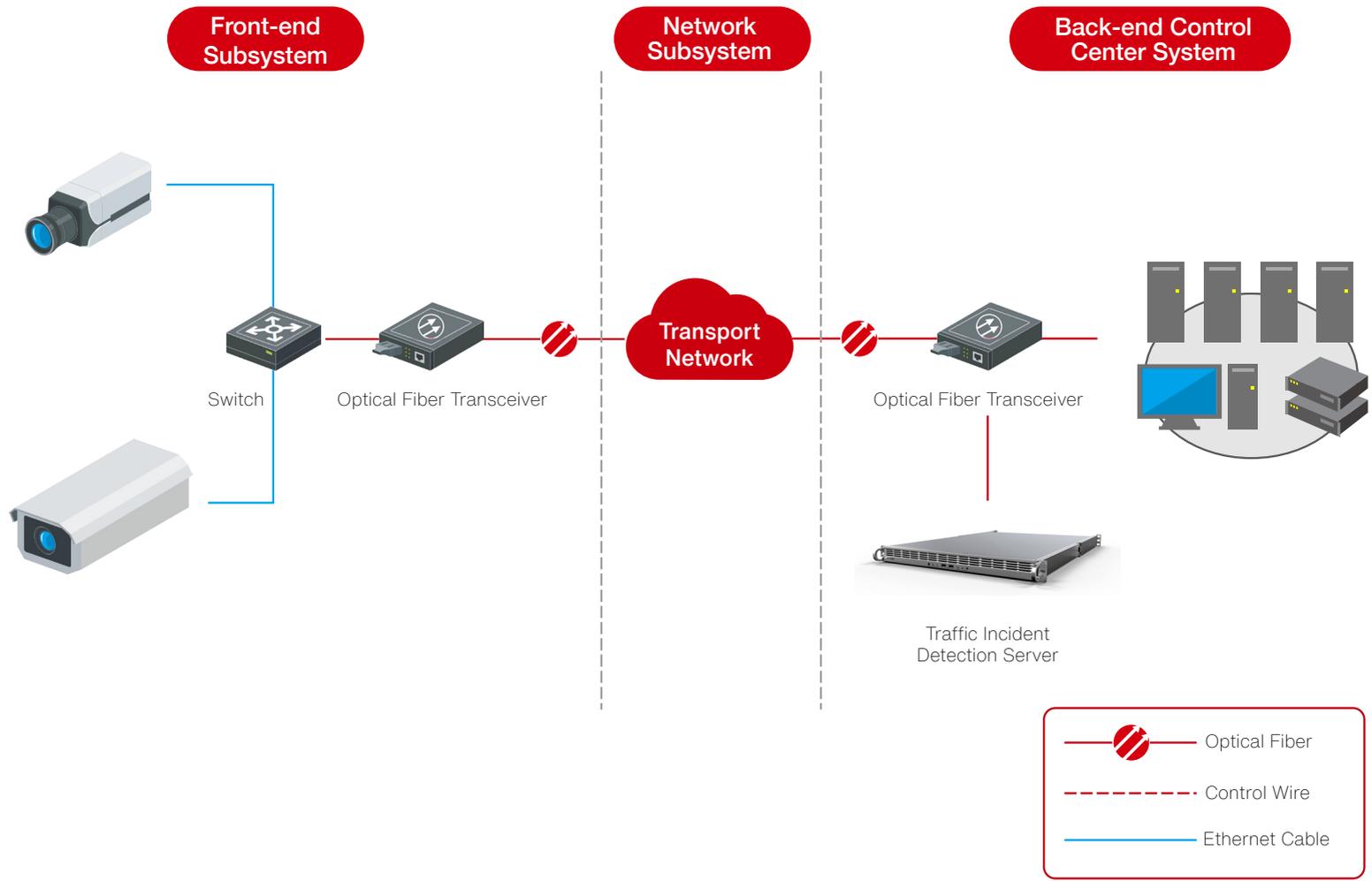
Automatic Incident Detection System

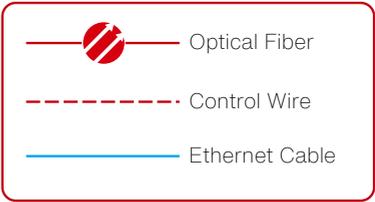
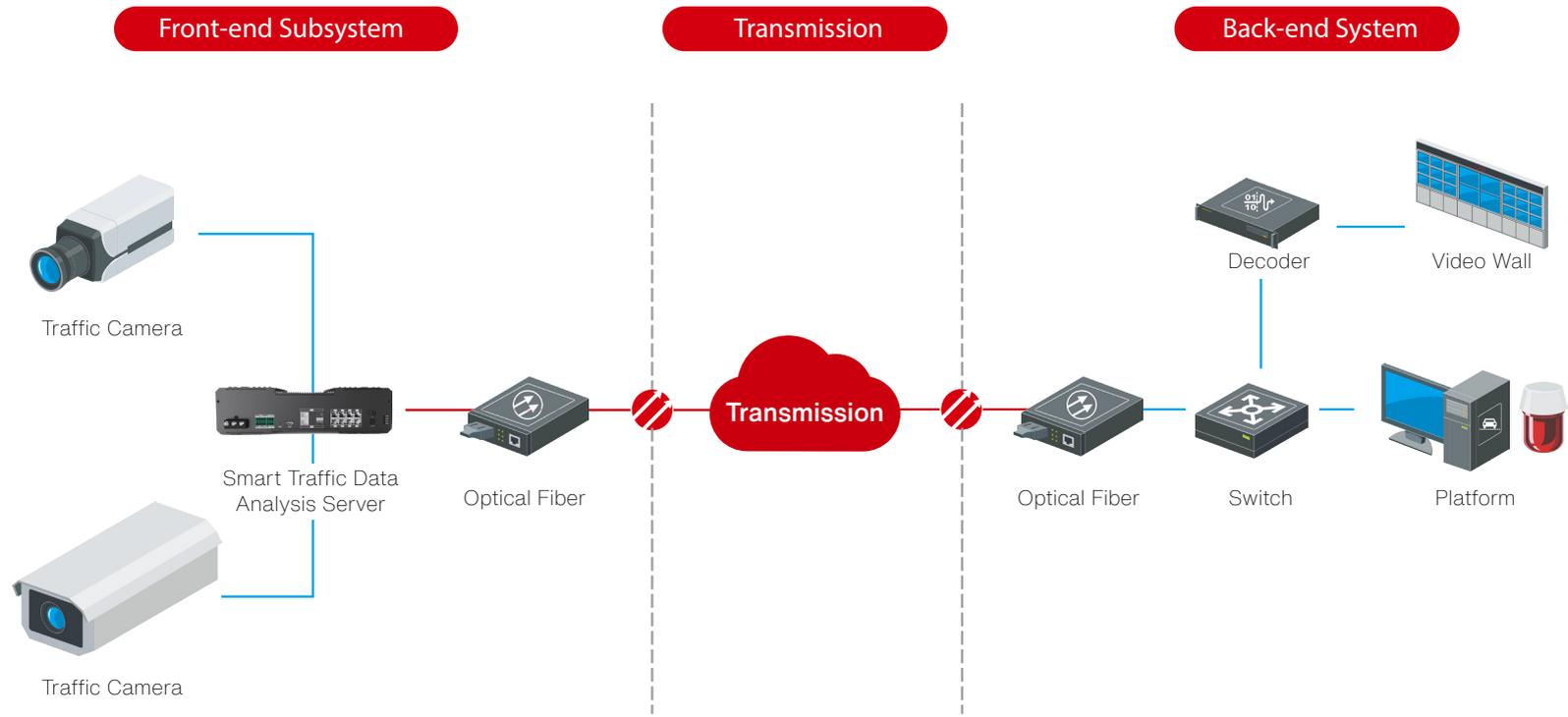
Traffic Incident Detection System is a server-based solution that provides fast incident detection and verification services to help prevent secondary accidents and other losses. Individuals on the road, such as motorists, can be warned via various message signs. Emergency services, if needed, will also be informed in time. This product can be deployed for traffic managements on accident-prone roads, tunnels and oversize bridges.

- > Deep Learning technology enables high-performance traffic incident detection
- > Simple configuration and operation sets you free from complex external operating systems
- > High-performance on simultaneous monitoring of traffic flow and traffic incident detection
- > 4- or 16-ch 4 MP traffic cameras or IPCs for video analysis
- > Pedestrian, Bicycle Riding, Wrong-Way Driving , Vehicle Breakdown, Objects Dropped Down, Sudden Speed Decrease, Low Speed Driving, High Speed Driving, Illegal Parking , Driving On The Lane Line, Construction, Objects Dropped Down, Emergency Lane Occupation, Congestion, Lane Traffic Flow



Model	IDS-TSS300-C/04	IDS-TSS500-C/16
Image	 HOT	 HOT
	Deep Learning	Deep Learning
Operating Interface	WEB	VGA
HDD Storage	Up to 4 × 3.5-inch SATA HDD, 24 TB	-
Network Interface	NIC 1: 9 × Gigabit Ethernet interface, 1 × combo SFP Gigabit fiber optic interface NIC 2: 1 × Gigabit Ethernet interface, 1 × SFP Gigabit fiber optic interface	4-ch self-adaptive 10/100/1000M network interfaces
Alarm Input	2	-
Alarm Output	2	-
Video Input	Up to 4-ch 4 MP IP cameras connection	Up to 16-ch 2 MP/3 MP IP cameras connection
USB Port	1 × USB 3.0	4 × USB 3.0, 2 × USB 2.0
RS232	2	-
RS485	2	-
HDMI/VGA Port	-	1 VGA
Memory	-	2 × 4 G Memory Bank
Display Lamp	Power Indicator, alarm status indicator, HDD indicator, running status indicator	UID Lamp, Alarm Lamp, Power Lamp, Ready Lamp
Key	Power on/off, Reset	Power on/off, Reset
Power	Max. 70 W	Hot Spare, Efficient, 1+1 Redundant, 800 W
Dimension	370 mm × 273 mm × 102.5 mm (14.57 inch × 10.75 inch × 4.04 inch)	438.4 × 591 × 43.6 mm (17.3 × 23.3 × 1.7 inch)
Operating Temperature	-30 °C to 70 °C (86 °F to 158 °F)	-40 °C to 70 °C (-40 °F to +158 °F)
Operating Humidity	10% to 90%	5% to 95%
Weight	-	16 kg (35.3 lb)







Intelligent Traffic System

ITS Camera

Traffic cameras make use of a deep learning algorithm for ANPR, vehicle feature recognition, and traffic violation detection. With a built-in GMOS sensor, traffic camera images do not smear and perform well in low illumination scenarios.

- > Built-in GMOS sensor
- > Deep learning algorithm for vehicle feature detection
- > No smear phenomenon, low illumination
- > Multiple supplement lighting modes
- > Combination of ANPR camera, three-shutter technology, IR illumination, power adapter, and communication in one unit
- > Industrial-grade housing withstand all weather conditions

Model	IDS-2CD9856-BIS	IDS-2CD9396-BIS	IDS-2CD9856-BES	IDS-2CD9396-BES
Image	 HOT Deep Learning	 HOT Deep Learning	 HOT Deep Learning	 HOT Deep Learning
Image Sensor	2/3" GMOS	1" GMOS	2/3" GMOS	1" GMOS
Resolution	2464 × 2056	4096 × 2160	2464 × 2056	4096 × 2160
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Lens	15-50 mm	11 to 40 mm	15-50 mm	11 to 40 mm
Light Range	Up to 30 m	Up to 27 m	Up to 30 m	Up to 27 m
Coverage	1-2 lanes	2-3 lanes	1-2 lanes	2-3 lanes
LPR Accuracy	> 98%	> 98%	> 98%	> 98%
Supplement Light	External strobe/flash/solid light	External strobe/flash/solid light	External strobe/flash/solid light	External strobe/flash/solid light
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/ Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/ Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/ Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/ Pedestrian/Motorcycle/Tricycle
Vehicle Color	Recognizable at daytime only	Recognizable at daytime only	Support	Support
Vehicle Manufacturer	Support	Support	Support	Support
Vehicle Model	Support	Support	Support	Support
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Driving on Lane Line Detection	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)
Illegal Lane Change Detection	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)	Support (only strobe light mode)
Wrong-way Driving Detection	Support	Support	Support	Support
Emergency Lane Occupation	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)
Seatbelt Detection	Support (with flash light)	Support (with flash light)	Support (with flash light)	Support (with flash light)
Phone Call Detection	Support (with flash light)	Support (with flash light)	Support (with flash light)	Support (with flash light)
No License Plate Detection	Support	Support	Support	Support
Motorbike LPR	Support	Support	Support	Support
Smart Function	Vehicle type classification, vehicle color recognition, no- plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no- plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no- plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no- plate vehicle capture, moving direction detection
Capture Speed Range	5 to 250 km/h	5 to 250 km/h	5 to 250 km/h	5 to 250 km/h
Frame Rate	50 Hz: 50 fps 60 Hz: 30 fps	50 Hz: 25 fps 60 Hz: 30 fps	50 Hz: 50 fps 60 Hz: 30 fps	50 Hz: 25 fps 60 Hz: 30 fps
Local Storage	TF card, up to 128 GB	TF card, up to 128 GB	TF card, up to 128 GB	TF card, up to 128 GB
Weight	0.98 ± 0.1 kg (2.16 ± 0.22 lb)	0.98 ± 0.1 kg (2.16 ± 0.22 lb)	0.98 ± 0.1 kg (2.16 ± 0.22 lb)	0.98 ± 0.1 kg (2.16 ± 0.22 lb)
Dimensions (W × H × D)	79 × 69 × 161.17 mm (3.11 × 2.72 × 6.35 inch)	79 × 69 × 161.17 mm (3.11 × 2.72 × 6.35 inch)	79 × 69 × 161.17 mm (3.11 × 2.72 × 6.35 inch)	79 × 69 × 161.17 mm (3.11 × 2.72 × 6.35 inch)
Operating Temperature	-40 °C to +60 °C(-40 °F to +140 °F)	-40 °C to +60 °C(-40 °F to +140 °F)	-40 °C to +60 °C(-40 °F to +140 °F)	-40 °C to +60 °C(-40 °F to +140 °F)
Humidity	95% or less, non-condensing	95% or less, non-condensing	95% or less, non-condensing	95% or less, non-condensing
Power	24 VDC ± 20%/100 to 240 VAC	24 VDC ± 20%/100 to 240 VAC	24 VDC ± 20%/100 to 240 VAC	24 VDC ± 20%/100 to 240 VAC

Intelligent Traffic System

ITS Accessories

> Cabinet

- Structure: Welded, strong, firm and reliable

> Hoop & bracket support

- Material: Q235



Cabinet

Model	ODH-2111	CCU-2000
Image		
Structure	Welding structure, strong, firm and reliable	Welding structure, strong, firm and reliable
Protection Level	IP55	IP55
Working Environment Temperature	-20 °C to +45 °C	-30 °C to +60 °C
Working Environment Humidity	≤ 85% (+30 °C)	5%-95% @ 40 °C, no condensation
Dimensions	700 × 800 × 410 mm (27.56 × 31.50 × 16.14 inch)	480 × 579 × 230 mm (18.90 × 22.80 × 9.06 inch)

Steel Hoop & Bracket

Model	Pole Mount-1275/Outdoor White	DS-1278ZJ-HWB/HG/60-300	DS-1701ZJ/HWB
Image			
Color	Hikvision White	Hikvision White	Hikvision White
Material	SUS304	SUS304	SUS304
Weight	1500 g	1150g	2660 g
Dimensions	Main Body: 250 x 127 x 46 mm (9.84 × 5 × 1.81 inch) Steel Hoops Diameter: 67 - 127 mm (2.64 - 5 inch)	Diameter: 60-300 mm	Main Body: 403 x 200 x 130 mm (15.87 × 7.87 × 5.12 inch)

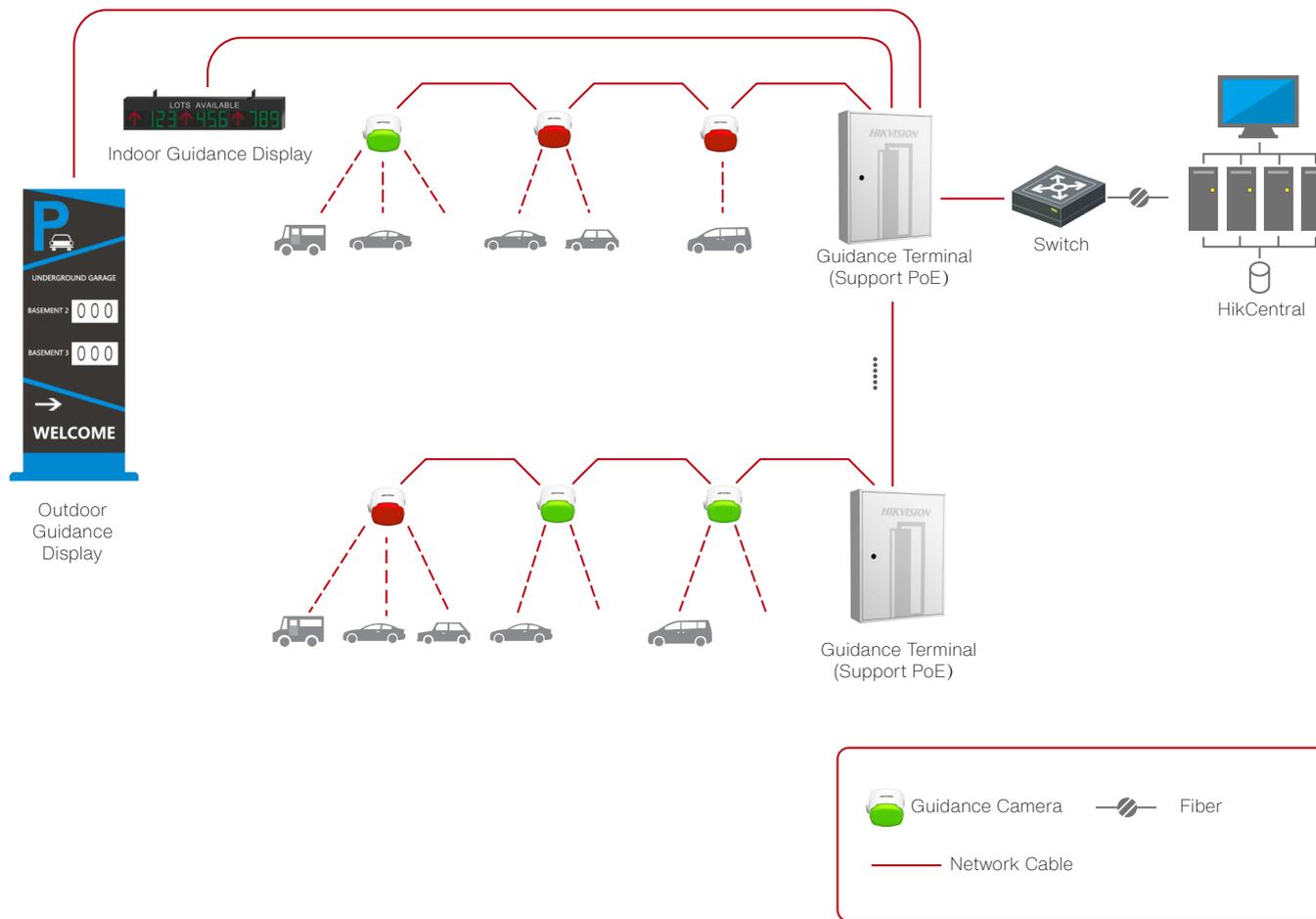


Intelligent Traffic System

Video Parking Guidance System

The Video Parking Guidance Solution combines deep learning algorithms, video monitoring, and information dissemination technologies to give drivers dynamic, real-time information about parking availability within controlled bays. The system helps drivers find the closest parking spaces available. Then, by simply entering their plate number in full or in part, the vehicle can be easily located on the floor map as well as the shortest and best route to it. Safety and security are enhanced in large parking garages.

- > Embedded ANPR with AI
- > The indicator light inside the parking guidance camera has seven configurable colors, allowing for dynamic indication of the purpose or status of the parking bay
- > Up to 6 single-lens parking guidance cameras or 4 dual-lens parking guidance cameras in cascaded connection for both power and network
- > Up to 24-TB edge storage for video and images from 32 single-lens parking guidance cameras or 16 dual-lens parking guidance cameras
- > Video, images and data can be stored locally offline if disconnected from central management software, preventing loss of critical information, then automatically forwarded to the CMS upon reconnection.
- > By integrating an LED display panel at the entrance, all available parking resources and information can be easily displayed for customers.



Parking Camera

Model	DS-TCP140-B	DS-TCP440-B	DS-TCP440-DB	DS-TCP440-BH	DS-TCP440-DBH
					
Image					
Indicator LED	In integrated mode, red, green, yellow, blue, cyan and magenta colors can be indicated; In separation mode, up to 3 external indicators which can indicate red, green, yellow, blue, cyan and magenta colors can be connected; Support indicator flickering.				
Sensor	1/2.7" CMOS	1/3" CMOS	1/3" CMOS	1/1.8" CMOS	1/1.8" CMOS
Min. Illumination	Color: 0.0165 Lux @ (F2.0, AGC ON) B/W: 0.0092 Lux @ (F2.0, AGC ON)	Color: 0.012 Lux @ (F2.0, AGC ON) B/W: 0.0062 Lux @ (F2.0, AGC ON)	Color: 0.012 Lux @ (F2.0, AGC ON) B/W: 0.0062 Lux @ (F2.0, AGC ON)	Color: 0.000048 Lux @ (F1.6, AGC ON) B/W: 0.000022 Lux @ (F1.6, AGC ON)	Color: 0.000048 Lux @ (F1.6, AGC ON) B/W: 0.000022 Lux @ (F1.6, AGC ON)
Shutter	1 to 1/100,000 second	1 to 1/100,000 second	1 to 1/100,000 second	1 to 1/100,000 second	1 to 1/100,000 second
Lens	2.8 mm / 4 mm	2.8 mm / 4 mm	2.8 mm	2.8 mm / 4 mm	2.8 mm
Angle Adjustment	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°
Video Compression	H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG
Output Bit Rate	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps
Max. Resolution	1280 × 1024	2560 × 1440	2560 × 1440 × 2	2688 × 1520	2688 × 1520 × 2
Frame Rate	30 fps (1280 × 1024)	30 fps (N)/25 fps (P)	15 fps (N)/15 fps (P)	30 fps (N)/25 fps (P)	15 fps (N)/15 fps (P)
Image Settings	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.
Backlight Compensation	Support; Areas can be selected.	Support; Areas can be selected.	Support; Areas can be selected.	Support; Areas can be selected.	Support; Areas can be selected.
Storage	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD
Protocol	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)
General Functions	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization
Communication Interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3, external indicator interface (for -K model)	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3 × external indicator interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3, external indicator interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3, external indicator interface
iBeacon	Standard iBeacon protocol	Standard iBeacon protocol	Standard iBeacon protocol	Standard iBeacon protocol	Standard iBeacon protocol
Working Temperature	-20 °C to +50 °C (-4 °F to 122 °F)	-20 °C to +50 °C (-4 °F to 122 °F)	-20 °C to +50 °C (-4 °F to 122 °F)	-20 °C to +50 °C (-4 °F to 122 °F)	-20 °C to +50 °C (-4 °F to 122 °F)
Working Humidity	< 95% (no condensation)	< 95% (no condensation)	< 95% (no condensation)	< 95% (no condensation)	< 95% (no condensation)
Power Supply	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage
Consumption	6.5 W MAX	6.5 W MAX	10 W MAX	6.5 W MAX	10 W MAX
Dimensions	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	184 × 120 × 104 mm (7.2 × 4.7 × 4.1 inch)	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	184 × 120 × 104 mm (7.2 × 4.7 × 4.1 inch)
Weight	500 g (1.1 lb)	500 g (1.1 lb)	500 g (1.1 lb)	500 g (1.1 lb)	500 g (1.1 lb)

Guidance Terminal

Model	DS-TPM400-P
Image	
CPU	High Performance ARM A17 digital media processor
Operating System	Embedded Linux operating system
Operation Interface	WEB
Network Video Input	Access of 16 dual cameras 32 parking cameras
Audio Input	1-ch Audio Input
Audio Output	1-ch Audio Output
Alarm Input	3-ch Alarm Input
Alarm Output	3-ch Alarm Output
RS485 Interface	2 RS485 Interfaces
USB Interface	1 USB2.0 Interfaces, 1 USB3.0 Interface
HDMI Interface	1 HDMI Interface
Network Interface	16 100M Internal Ethernet Interfaces, including 8 HIKVISION PoE Ethernet Interfaces; 4 1000M External Ethernet Interfaces
Optical Interface	1 Optical Interface
Data Storage	Parking camera capture picture and video storage, support up to 6 HDDs(6 TB for each HDD)
Data Upload	Support data upload and video stream transfer
Power Supply	220 VAC/110 VAC , Standard
Power	<500 w
Mechanical Characteristics	Dimension: 410 mm (Width) × 130mm (Depth) × 540 mm (Height)
Working Environment	Working Temperature -10 °C-50 °C, Working Humidity 10%-90%

LED Display

Model	DS-TVL121-3-5D	DS-TVL121-6-5D	DS-TVL121-9-5D	DS-TVL121-3-5	DS-TVL221-3-5
Image	 <small>NEW</small>	 <small>NEW</small>	 <small>NEW</small>	 <small>NEW</small>	 <small>NEW</small>
Application	Indoor Parking Area	Indoor Parking Area	Indoor Parking Area	Indoor parking lot (module)	Outdoor parking lot (module)
Power Supply	110 VAC – 220 VAC	110 VAC – 220 VAC	110 VAC – 220 VAC	110 VAC – 220 VAC	110 VAC – 220 VAC
Power Consumption	Max. 14W	Max. 28W	Max. 50W	14 W in maximum	12W in maximum
Display Mode	Shift left, Shift up, Upward expanding, Downward expanding	Shift left, Shift up, Upward expanding, Downward expanding	Shift left, Shift up, Upward expanding, Downward expanding	Real-time display	Real-time display
Dimension	584×224×66 mm	1133×224×66 mm	1682×224×66 mm	579 × 298 × 65 mm	550mm×255mm×65mm
Display Screen Border	Black Aluminum Alloy Border	Black Aluminum Alloy Border	Black Aluminum Alloy Border	Black aluminum alloy frame	Black aluminium alloy frame
Display ICON	Optional	Optional	Optional	Support number and arrows, variable	Support 4 numbers
Display Color	Red/Green/Yellow/Blue/Cyan/Magenta/White	Red/Green/Yellow/Blue/Cyan/Magenta/White	Red/Green/Yellow/Blue/Cyan/Magenta/White	Red/Green/Yellow/Blue/Cyan/Magenta/White	Red/Green/Yellow/Blue/Cyan/Magenta/White
Communication Mode	RS485/RJ45	RS485/RJ45	RS485/RJ45	RS485/RJ45	RS485/RJ45
Number Display	Support 3 numbers 1 arrow display	Support 6 numbers 2 arrows display	Support 9 numbers 3 arrows display	Display 1 arrow and 3 numbers	Display 4 numbers

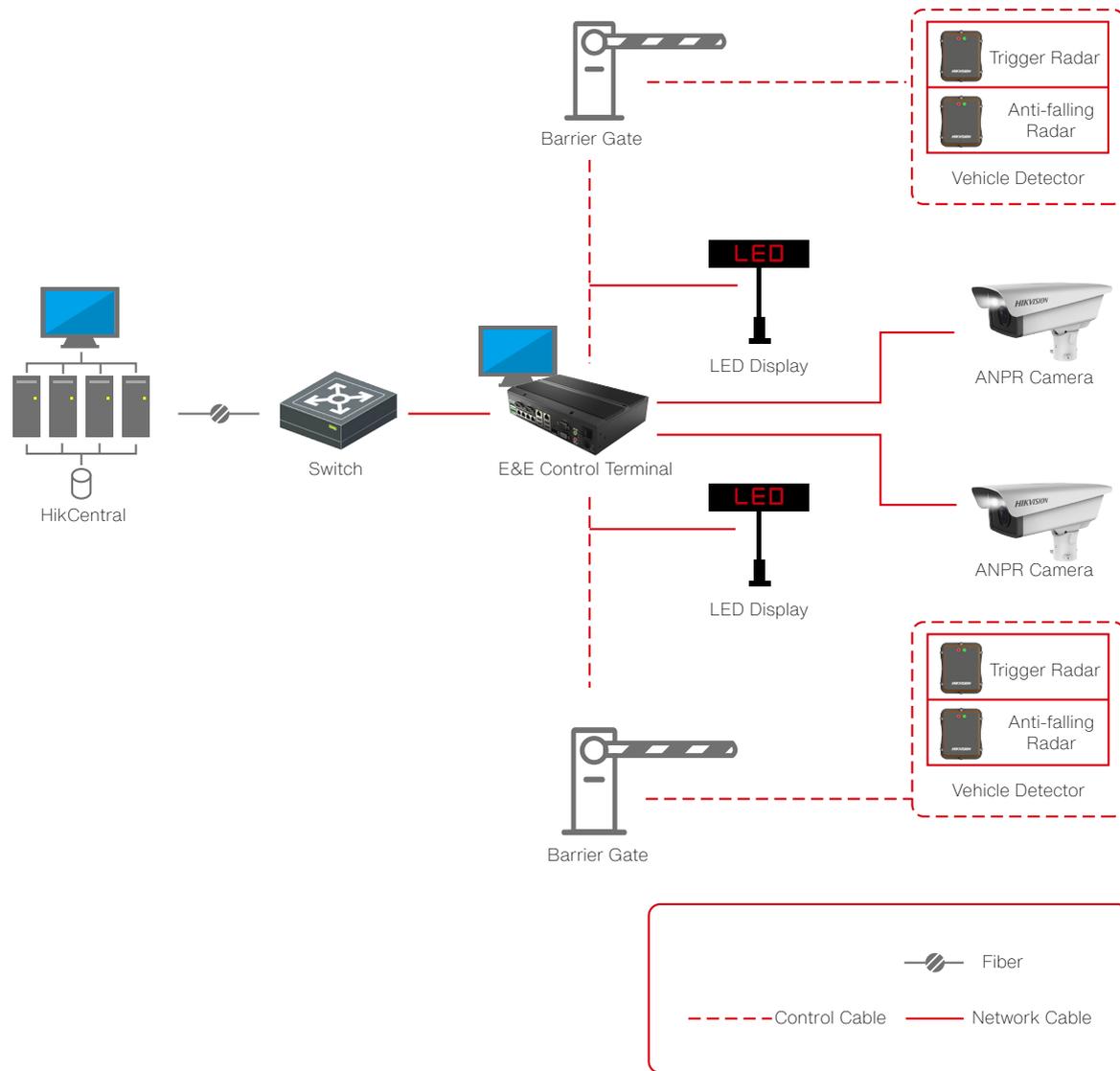
Model	DS-TV8200
Image	
Module Number	1-8
Communication Mode	RS485, RJ45
Pixel Composition of Module	1R1G Dual-color
Module Size	320 × 160 (mm)
Power Supply	220 VAC/110 VAC
Weight	75 kg
Dimension	700 × 3000 × 150mm (27.6 × 118.1 × 5.9 inch)



Intelligent Traffic System Entrance & Exit Management System

Hikvision's E&E Cameras automatically recognize a vehicle's plate number and display it on the Control Center screen. The Authorized List function with barrier integration enables fluid and quick entering and exiting of registered vehicles and can be modified easily according to requirements.

- > Embedded ANPR with AI
- > Anti-glare, high-quality images at night in spite of high beam headlights
- > Open protocol for integration
- > Easier installation
- > Robust design – Free from environmental influences including light, dust, rain and snow
- > Safety sensor radar ensures the barrier remains open when a passageway is not clear



Entrance & Exit Video Unit

Model	DS-TC6227-A/AIR
Image	 HOT
	Deep Learning
Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002Lux@(F1.2, AGC ON) B/W: 0.002Lux@(F1.2, AGC ON)
Shutter Speed	1/30 s - 1/100,000 s
Lens	3.1 mm - 9 mm
IR Cut Filter	Support
Video Compression	H.265, H.264
Video Bit Rate	32 Kbps - 16 Mbps
Max. Resolution	1920 × 1200
Frame Rate	25 fps(1920 × 1200)
Image Setting	Saturation: 0 to 100 Brightness: 0 to 100 Contrast: 0 to 100 Gain: 0 to 100 3D DNR: Off, Normal and Expert modes are selectable. White balance: White Balance 1 and White Balance 2 are selectable.
Picture Format	JPEG with configurable quality
Smart Recognition	ANPR Vehicle type, color, brand recognition
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, FTP Upload Pictures
Security	User Authentication, Heartbeat, NTP
Communication	1 RJ45 10 M/100 M/1000 M Ethernet port
Built-in LED light	2 built-in LEDs
Audio	1-ch audio output
Memory Card Slot	1 TF card slot, up to 128 GB
Operating Conditions	Linux
Working Temperature	-30°C to 70°C (-22°F to 158°F)
Working Humidity	90% or less (non-condensing)
Power Supply	PoE/12 VDC
IP	IP67, IK10
Power Consumption	20 W

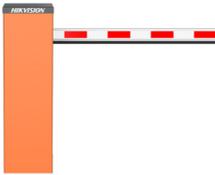
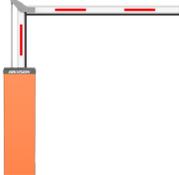
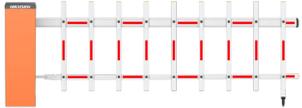
Entrance & Exit Controller

Model	DS-TME40X-TPC
Image	 HOT
Model Distinguish	DS-TME401-TPC: Entrance controller (Ticket) DS-TME402-TPC: Exit controller (Ticket)
Operation System	Embedded Linux operating system
Operation Interface	WEB
Indicator	24 V power supply indicator, 12 V power supply indicator, mainboard alarm indicator, HDD read/write indicator, mainboard running status indicator
Analog Video Input	2-ch, SD BNC input
Network Video Input	4-ch, IP camera input
Audio Input	1-ch, pickup input
Audio Output	1-ch, loudspeaker output
Alarm Input	2-ch, alarm input
Alarm Output	2-ch, alarm output
Reserved Interface	1-ch, fire alarm input and alarm output
Barrier Interface	1, barrier interface, including barrier control and status feedback
Inductive Loops Input Interface	1, inductive loops input interface
LED Interface	1, external LED interface
Card Reader Interface	1, user card reader interface
Vehicle Detector Interface	1, vehicle detector interface
Wiegand Interface	2, Wiegand interface
Loudspeaker Interface	1, loudspeaker interface
RS-232 Interface	1, RS-232 interface
RS-485 Interface	1, RS-485 interface
USB Interface	N/A
VGA Interface	N/A
Network Interface	1, 100 M Ethernet interface
Memory Card	N/A
Thermal Paper	Width: 58 mm, thickness of a roll of paper: ≤ 60 mm
Number of Ticket	Approx. 400 (related to the thickness of ticket paper)
Display	12.1 inch LCD, 1024 × 768
Display Dimension (W × H)	260 × 204 mm (10.2 × 8.0 inch)
Data Storage	Information storage of the passing vehicle Storage capacity: 1 GB
Data Upload	Data upload and video stream transfer
Power Supply	100-240 VAC, standard
Consumption	< 150 W
Device Dimension	500 × 170 × 1497 mm (19.7 × 6.7 × 58.9 inch)
Working Temperature	-25 °C to +75 °C (-13 °F to +167 °F)
Working Humidity	10% to 90%

Entrance & Exit Radar

Model	DS-TM6034(Capture-trigger)	DS-TM6034(Anti-fall)
Image		
Transmitting Frequency (GHz)	79	79
Transmitting Power (mW)	≤ 10	≤ 10
Beam Width	Vertical 34°, Horizontal 12°	Vertical 12°, Horizontal 34°
Response Time (ms)	1	1
Trigger Distance (m)	6 (Programmable)	6 (Programmable)
Detection Area (m)	Horizontal width: 1.5	Horizontal width: 1
Detection Target	Vehicle	Vehicle and pedestrian
Area Vehicle Following	Distinguish following distance of vehicle: 0.5 m	N/A
Online Debugging	Serial port debugging	Serial port debugging
Online Upgrade	Serial port upgrade	Serial port upgrade
Working Voltage (VDC)	9 to 12	9 to 12
Working Current (A)	< 0.2	< 0.2
Consumption (W)	< 2	< 2
Working Temperature	-40 °C to +80 °C (-40 °F to +176 °F)	-40 °C to +80 °C (-40 °F to +176 °F)
Dimensions (L × W × H)	136.9 × 112.4 × 29 mm (5.4 × 4.4 × 1.1 inch)	136.9 × 112.4 × 29 mm (5.4 × 4.4 × 1.1 inch)
Weight	0.32 kg (0.70 lb)	0.32 kg (0.70 lb)

Entrance & Exit Barrier Gate

Model	DS-TM64B0	DS-TM64B1	DS-TM6510	DS-TM6511	DS-TM6513
Image					
Material	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	SECC	SECC	SECC
Boom Pole Height	890 mm	890 mm	880 mm	880 mm	880 mm
Material Thickness	1.5 mm	1.5 mm	2.0 mm	2.0 mm	2.0 mm
Metal Door Thickness	1.2 mm	1.2 mm	1.5 mm	1.5 mm	1.5 mm
Color	Black background and silver pattern	Black background and silver pattern	Orange	Orange	Orange
Surface Protection	Stoving varnish	Stoving varnish	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying
Induction	Supported	Supported	Supported	Supported	Supported
IR	Supported	Supported	Supported	Supported	Supported
Controller	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop
Working Temperature	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)
Ingress Protection	IP54	IP54	IP54	IP54	IP54
Remote Control Frequency	430.5 MHz	430.5 MHz	433 MHz	433 MHz	433 MHz
Design Life	2,500,000	2,500,000	5,000,000	5,000,000	5,000,000
Weight	41 kg (90.4 lb.)	41 kg (90.4 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)
Package Dimension	380 × 325 × 1,085 mm (15.0 × 12.8 × 42.7 inch)	380 × 325 × 1,085 mm (15.0 × 12.8 × 42.7 inch)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)
Power Supply	220 VAC ± 15%	220 VAC ± 15%	230 VAC	230 VAC	230 VAC
Consumption	60 W	60 W	300 W	300 W	300 W
Rising Speed	3 m: 3 s 4 m: 3 s 6 m: 6 s	3 s	2 m: 0.6 s 3 m: 0.9 s 4 m: 1.5 s	1.5 s	3 s
Falling Speed	3 m: 3 s 4 m: 3 s 6 m: 6 s	3 s	2 m: 2 s 3 m: 3 s 4 m: 3.5 s	3.5 s	6 s
Max. Boom Pole Length	3/4/6 m	4(2+2) m	2/3/4 m	4(2+2) m	4 m
Type	Straight boom pole	Curved boom pole	Straight boom pole	Curved boom pole	Fence boom pole
Electric Current	1 A	1 A	1.5 A	1.5 A	1.5 A

Accessories

Model	ESP-L1300-R117	ESP-L1000/1300-R117	ESP-L2500-X1300-R117
Image			
Height	1.3 m	1.3 m	2.5 m
Color	Hikvision White	Hikvision White	Hikvision White
Material	wQ235	Q235	Q235
Weight	8350 g	9480 g	14350 g
Dimension	Diameter: 60 mm	Diameter: 60 mm	Diameter: 60 mm

Entrance & Exit Control Terminal

Model	DS-TPE100	DS-TPE104
Image		 Built-in PMS software
Interfaces	4-ch 10/100 Mbps Ethernet interfaces, 2-ch 1000 Mbps Ethernet interfaces, 4-ch USB2.0 interfaces, 2-ch I/O input, 4-ch relays outputs, 1-ch VGA output interface, 1-ch reserved SATA interface, 1-ch audio interface	2-ch RS-232 Interfaces, 2 x RS-485 Interfaces, 4-ch USB 3.0 Interfaces, 5-ch 100 Mbps/1000 Mbps Self-Adaptive Interfaces, supporting connecting with switch, 1-ch Independent 100 Mbps/1000Mbps Self-Adaptive Interface, support network isolation
Operation System	Windows 10	Windows 10
PMS Software Function	N/A	Barrier gate control, parking fee calculation based on different rules, passing vehicle information collection, black & white list management, available parking lots counting and so on
Connection	Number of Cameras: Maximum 4	Number of Cameras: Maximum 4
Memory	Memory: 4 GB	Memory: 4 GB
Storage	HDD: 2 T / 4 T	HDD: 2 T
Working Temperature	-10°C to +70°C (14°F to 158°F)	-20°C to +70°C (-4°F to 158°F)

Entrance & Exit LED Display

Model	DS-TVL224-4-5Y
Image	
Working Voltage	220 VAC±10%, 50Hz 110 VAC±10%, 60Hz
LED Brightness	1200 cd
LED Angle	110°
Frame Material	Iron Frame Spraying Plastic(Dark armored glass for display part)
Installation Method	Hoop on the back
Speaker Specification	4Q10W
Protection Grade	IP65
Dot Pitch	P4.75
Fundamental Color	1 Red 1 Green
Downward Communication Methods	RJ45/RS485
Display Method	Instant, Left Shift, Up Forward, etc.
Character Display	GB2312 Character Set, 16 * 16 Lattice Chinese Characters
485 Communication Rate	RS485: 57600 bps
Communication Distance	RS485: 1200 m, RJ45: 120 m
Power Consumption	Max 50 W, Average 30 W
Display Size	304 mm (Width) × 304 mm (Height)
Dimension	364 × 484 × 60 mm (14.33 × 19.06 × 2.36 inch)

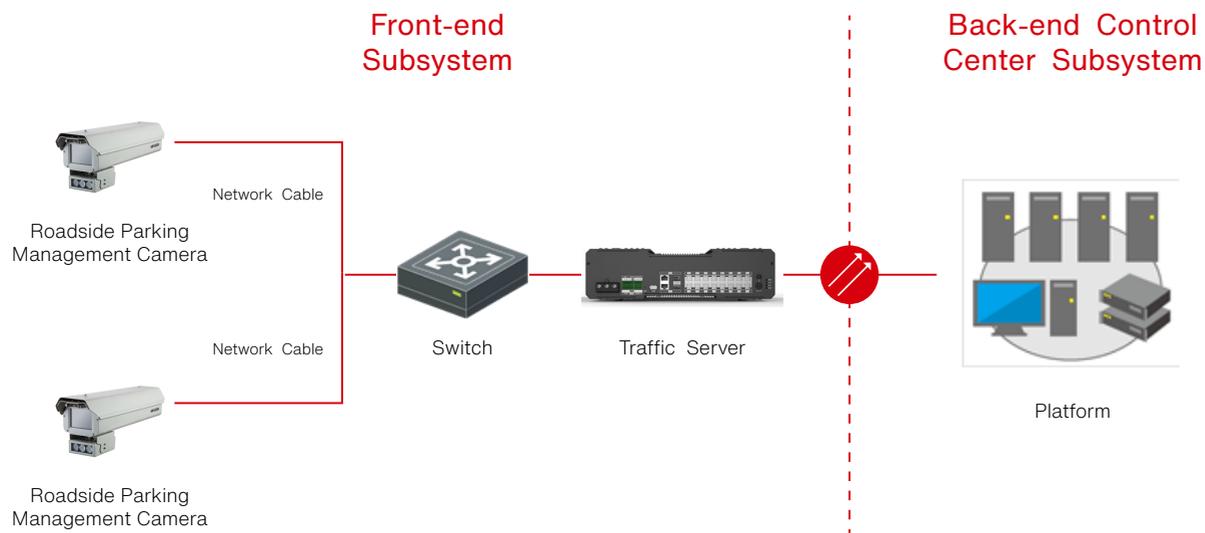


Intelligent Traffic System

Roadside Parking Management System

The Roadside Parking Management System detects parking space status, recognizes vehicles, and records the complete process of vehicles parking in the form of images and video. It supports ANPR and H.265 compression. Moreover, it enables intelligent event detection and data collection for 4 consecutive parking spaces and is used widely in urban roadside parking space detection.

- › Intelligent 4.2 MP CMOS camera
- › Captures and recognizes parking vehicles via ANPR
- › Supports max. 64 GB TF card
- › Supports Automatic Network Replenishment (ANR)
- › Covers four parking spaces with one camera and eight parking spaces with two cameras



Roadside Parking System

Model	IDS-TCR400-B
Image	 NEW
Image Sensor	1/1.8"Progressive Scan CMOS
Min. Illumination	"Color: 0.001Lux @(F1.2,AGC ON) B/W: 0.0001 Lux @(F1.2,AGC ON)"
Shutter Speed	1s to 1/100,000s
Lens interface	C/CS interface
Auto Iris	DC drive
Day/Night Switch	ICR
Video Compression	H.264 / H.265 / MJPEG
Video Bit Rate	32Kbps-16Mbps
Max. Resolution	2688 × 1520
Frame Rate	25 fps
Picture Format	JPEG
Smart Recognition	ANPR parking space status detection.
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP
Communication	1 RJ45 10M /100M/ 1000M Ethernet interface,1 RS-485 interface,1 RS-232 interface
Memory Card Slot	Support TF card
Working Temperature	-30°C to 70°C
Working Humidity	95% or less (non-condensing)
Power Supply	100VAC-240VAC
IP	IP54
Power Consumption	< 20W

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