

A nighttime photograph of a multi-level highway interchange with traffic. In the background, a city skyline with illuminated skyscrapers is visible under a dark sky. The scene is lit by streetlights, and there are decorative blue and white circular and line patterns overlaid on the right side of the image.

PRODUCT QUICK GUIDE

INTELLIGENT TRAFFIC SYSTEM

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HIKVISION®

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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.

A 16 MP checkpoint capture unit is newly released, which is capable of capturing clearer pictures, more details, and larger scenes. And the coverage lanes are up to 5 lanes.

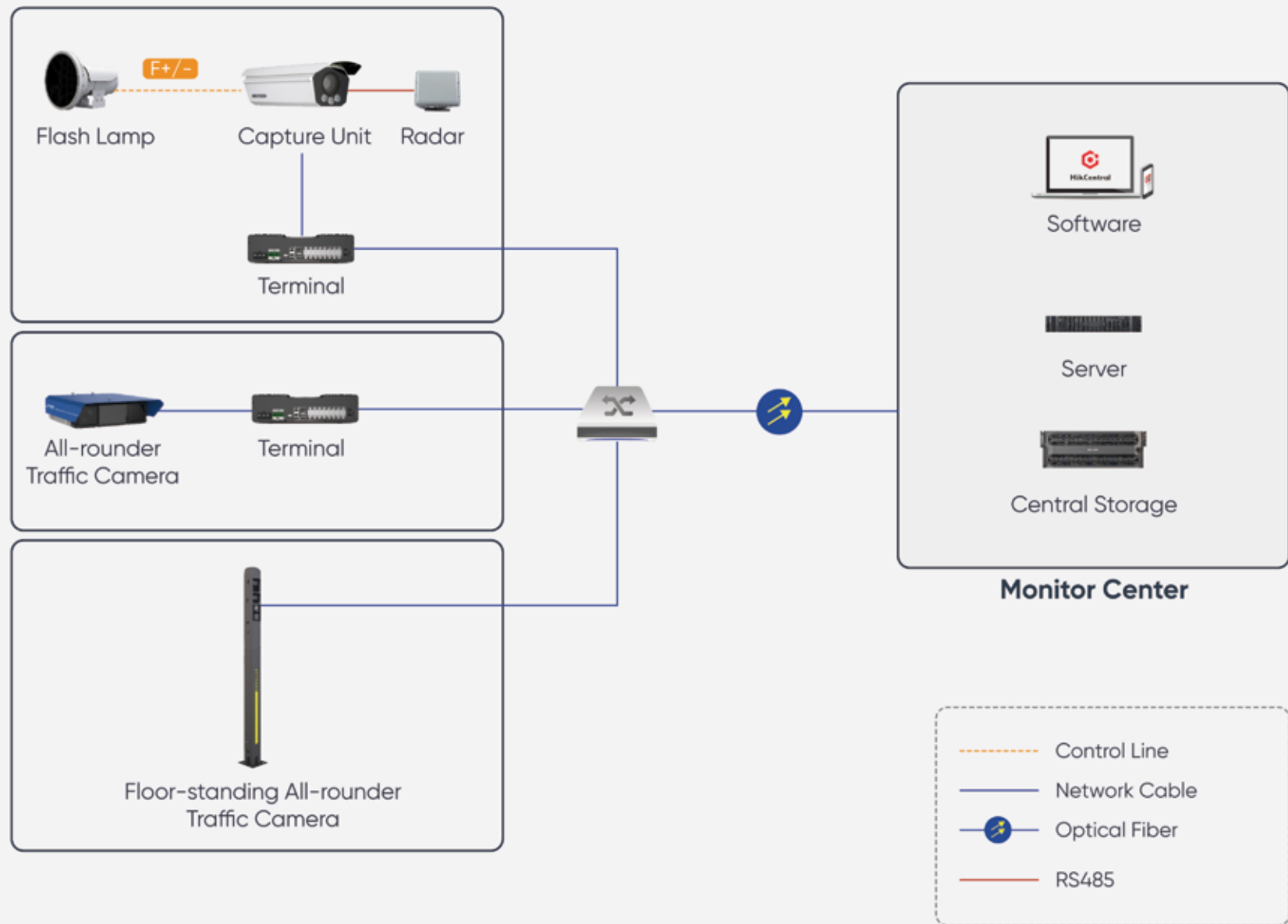
- High quality imaging with up to 16 MP resolution (1.1"GMOS)
- Excellent low-light performance
- Efficient H.265 compression technology
- 3D DNR technology delivers clean and sharp images
- High-precision Speed Detection Radar with a velocity range of 10 to 320 km/h
- Supports automatic number plate recognition (ANPR)
- Vehicle feature recognition: vehicle type, color, manufacture, number plate 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.

Floor-Standing All-Rounder Traffic Camera






All-Rounder Traffic Camera

Model	IDS-TCV99P-BIR
Image	 Deep Learning
Image Sensor	2 image sensor, 9 MP [1" GMOS]
Resolution	4096 × 2160
Video Compression	H.265/H.264/MJPEG
Lens	11-40 mm
Supplement Light	1 white light, and 1 IR Light (850 nm); 16 beads for each light
Light Range	Up to 40 m
Central Frequency(Radar)	24.05 to 24.25 GHz
Measurement Accuracy	-2 to +2 km/h
Velocity Range	10 to 320 km/h
Tracking Target	Up to 128
Double Trigger	Approaching direction, leaving direction, and both
Coverage	up to 8 lanes
Processor (Terminal Server)	High-performance ARM A17 processor
Operation system	Embedded Linux operation system
Operation medium	Web
Storage	Up to 16 TB
Network interface	4 100M Ethernet interfaces; 1 internal 10M/100M/1000M self-adaptive Ethernet interface; 1 external 10M/100M/1000M self-adaptive Ethernet interface
Data storage	Stores passing vehicle information
Interface	2 RS232, 1 RS485, 1 USB2.0, 1 relay alarm input, 1 relay alarm output, 1 audio output
Video Compression	H.265/H.264/MJPEG
Smart Function	License plate recognition, no License Plate detection, motorcycle LPR; Running the red light, driving on lane line, illegal lane change, wrong-way driving detection; Seatbelt, phone call detection
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV/MPV/Pickup/Pedestrian/Motorcycle/Tricycle
Vehicle Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black
License Plate Color Recognition	Customized to support
Frame Rate	50 Hz: 25 fps; 60 Hz: 30 fps
Protection Level	IP54
Weight	Approx. 150 kg [330.69 lb.]
Dimensions (W × H × D)	350 × 280 × 4800 mm [13.78 × 11.02 × 188.98 inch]
Package Dimension	988 × 747 × 3033 mm [38.9 × 29.41 × 119.41 inch]
Operating Temperature	-30 °C to 70 °C [-22 °F to 158 °F]
Humidity	95 % or less, non-condensing
Power	100 to 240 VAC, < 150 W



Model	IDS-TCV507-BIR/1550	IDS-TCV907-BIR/1140	IDS-TCV507-BER/1550	IDS-TCV907-BER/1140
Image	 Deep Learning	 Deep Learning	 Deep Learning	 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	11-40 mm	15-50 mm	11-40 mm
Light Range	Up to 40 m	Up to 40 m	Up to 40 m	Up to 40 m
Light Beads	16	16	16	16
Wavelength	850 nm	850 nm	/	/
Central Frequency	24.05 to 24.25 GHz	24.05 to 24.25 GHz	24.05 to 24.25 GHz	24.05 to 24.25 GHz
Measurement Accuracy	-2 to +2 km/h	-2 to +2 km/h	-2 to +2 km/h	-2 to +2 km/h
Velocity Range	10 to 320 km/h	10 to 320 km/h	10 to 320 km/h	10 to 320 km/h
Tracking Target	Up to 32	Up to 32	Up to 32	Up to 32
Double Trigger	Approaching direction, leaving direction, and both	Approaching direction, leaving direction, and both	Approaching direction, leaving direction, and both	Approaching direction, leaving direction, and both
Coverage	1-2 lanes	up to 3 lanes	1-2 lanes	up to 3 lanes
LPR Accuracy	> 98 %	> 98 %	> 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 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	Recognizable at daytime only	Recognizable at daytime only	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black
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	Support	Support	Support
Illegal Lane Change Detection	Support	Support	Support	Support
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]
Frame Rate	50 Hz: 50 fps; 60 Hz: 30 fps	50 Hz: 25 fp; 60 Hz: 30 fps	50 Hz: 50 fps; 60 Hz: 30 fps	50 Hz: 25 fps; 60 Hz: 30 fps
Protection Level	IP65	IP65	IP65	IP65
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	Approx. 7.2 kg [15.9 lb.]	Approx. 7.2 kg [15.9 lb.]	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]	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]	-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	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	36 VDC ± 20 % / 100 to 240 VAC	36 VDC ± 20 % / 100 to 240 VAC




Checkpoint Capture Unit



Model	IDS-TCV500-BE/1550/H1	IDS-TCV500-BI/1550/H1	IDS-TCV900-BE/1140/H1	IDS-TCV900-BI/1140/H1	IDS-TCV600-FI/1140/H1
Image					
	Deep Learning	Deep Learning	Deep Learning	Deep Learning	Deep Learning
Image Sensor	2/3" GMOS	2/3" GMOS	1" GMOS	1" GMOS	1.1" GMOS
Resolution	2464 × 2056	2464 × 2056	4096 × 2160	4096 × 2160	5328 × 3040
Video Compression	H.265/H.264/MJPEG	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	11-40 mm	11-40 mm	11-40 mm
Coverage	1-2 lanes	1-2 lanes	2-3 lanes	2-3 lanes	5 lanes
LPR Accuracy	> 98 %	> 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	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 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	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle
Vehicle Color	Support	Recognizable at daytime only	Support	Recognizable at daytime only	Recognizable at daytime only
Vehicle Manufacturer	Support	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	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)	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)	Support (only strobe light mode)
Wrong-Way Driving Detection	Support	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)	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)	Support (with flash light)
Phone Call Detection	Support (with flash light)	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	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	50 Hz: 25 fps 60 Hz: 30 fps
Protection Level	IP66	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	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]	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]	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]	With 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]	-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	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	24 VDC ± 20 % / 100 to 240 VAC

Traffic Server

Model	DS-TP50-16E	DS-TP50-08H
Image	 ←HOT	 ←NEW
Operating Interface	WEB	WEB
HDD Storage	4 x SATA (up to 6TB each HDD)	1 SATA HDD (Up to 4TB)
External Storage	1 eSATA interface for 1 external HDD	-
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	4 x 100M self-adaptive Ethernet Interface 2 x 10/100/1000 M self-adaptive Ethernet interface
Video Input	16-ch	4-ch & 4-ch via switches
Reset Button	1	-
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
USB Port	1	1
RS232	2	2
RS485	2	1
Alarm Input	2	1
Alarm Output	2	1
Operating System	Embedded Linux operating system	Embedded Linux operating system
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading	Automatic Network Replenishment (ANR) and manual uploading
Power Supply	12 VDC/12.5 A	12 VDC/5 A
Dimension (W × D × H)	370 × 273 × 102.5 mm (14.6 × 10.7 × 4.0 inch)	245 mm × 170 mm × 55 mm (9.6 × 6.7 × 2.1 inch)
Working Temperature	-40 °C to +70 °C [-40 °F to +158 °F]	-30 °C to +70 °C [-220 °F to +158 °F]
Working Humidity	10 % to 90 %	5 % to 95 %


Radar




Model	iDS-TSV300-C
Image	 ←HOT
Operating Interface	WEB
HDD Storage	1 × 4 TB 3.5-inch SATA HDD (Default); 4 × 6 TB (Scalable)
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 × 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 × 273 mm × 102.5 mm (14.57 inch × 10.75 inch × 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	 ←HOT	 ←HOT
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 ° × 6 °	35 ° × 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	-2~+2 km/h
Trigger Consistency	≤ ±1 m	≤ ±1 m
Velocity Range	10~250 km/h	10~320 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 × 190 × 53 mm (7.48 × 7.48 × 2.09 inch)	166 × 139 × 40 mm (6.54 × 5.47 × 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	4 V - 6 V (High level trigger)	4 V - 6 V (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%, 47 Hz-63 Hz 110 VAC ±20%, 47 Hz-63 Hz	220 VAC ±20%, 47 Hz-63 Hz 110 VAC ±20%, 47 Hz-63 Hz
Consumption	Max.36 W (Determined by control model)	Max.36 W (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	Support 10°, 40° optional
Coverage	1 or 3 lanes	1 or 3 lanes
Effective Distance	16-25 m	16-25 m
Trigger Manner	TTL level (switch trigger optional)	TTL level (switch trigger optional)
Trigger Level	4 V - 6 V (High level trigger)	4 V - 6 V (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 %, 47 Hz - 63 Hz 110 VAC ±20 %, 47 Hz - 63 Hz	220 VAC ±20 %, 47 Hz - 63 Hz
Consumption	Max.60 W (Determined by control model)	Max.60 W (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	6.28 kg	5.19 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 %, 47 Hz - 63 Hz	220 VAC ±20 %, 47 Hz - 63 Hz	220 VAC ±20 %, 47 Hz - 63 Hz
Consumption	Max.60 W, Lower Grade 30W [Determined by control model]	Max.60 W, Lower Grade 30W [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
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 % / 48 Hz - 52 Hz	AC220V±10 % / 48 Hz - 52 Hz
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. 67 ms	Max. 67 ms
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, 10-320 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)/M
Image	 HOT Deep Learning
Central Frequency	24.15 GHz \pm 45 MHz
Velocity Rang	10 - 320 km/h
Measurement Accuracy	-2 - +2 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 \times 2160
Frame Rate	25 fps (4096 \times 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 $^{\circ}$ C-60 $^{\circ}$ 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, and capture passing vehicle images, and recognize vehicle features (with camera), showing the real-time speed, reminder signs or ANPR info 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.

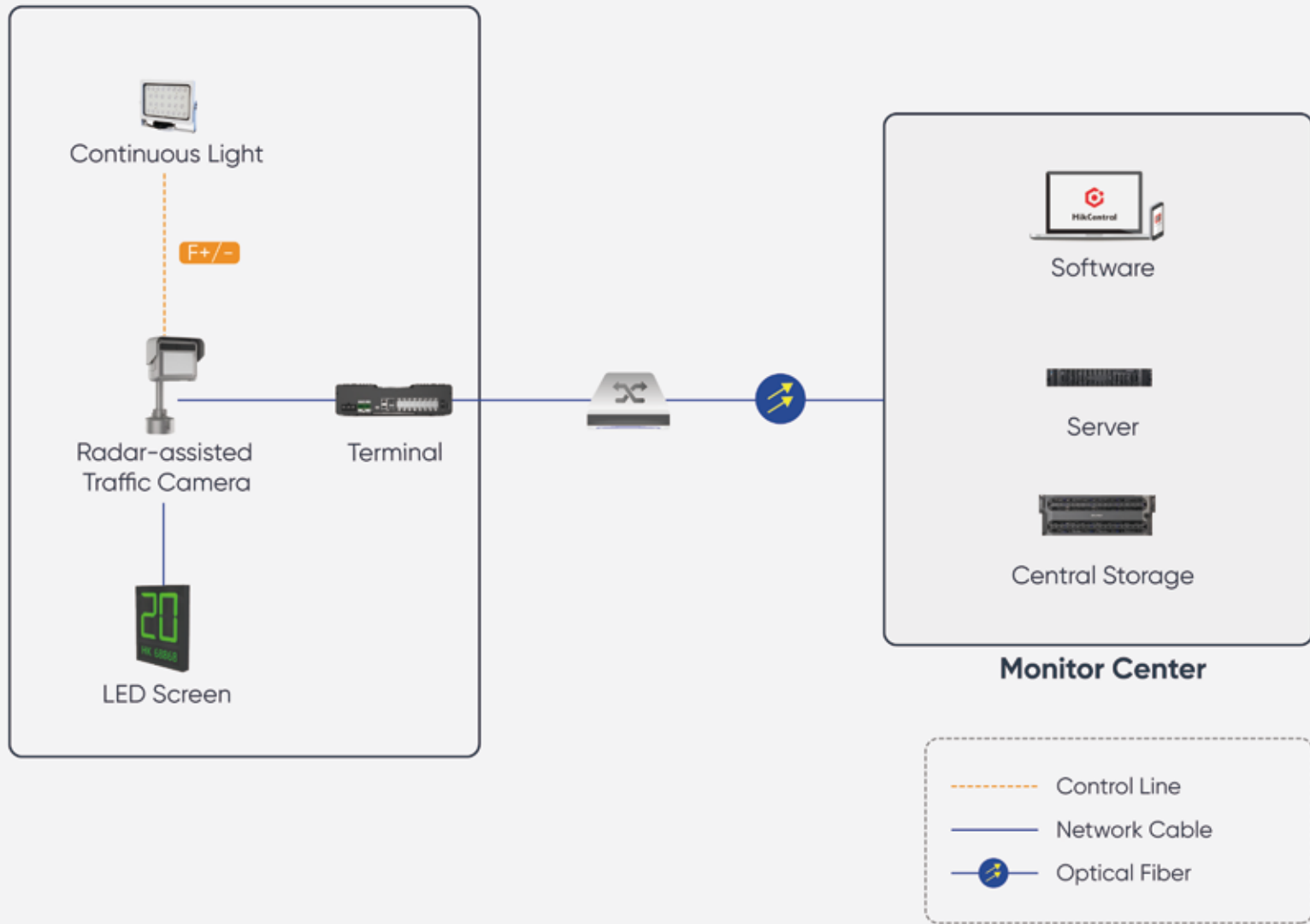
- > ANPR recognition for multiple lanes
- > Vehicle tracking for speed measurement
- > Convenient configuration & delivery
- > Display Real-time speed, reminder signs , ANPR info
- > Multiple display modes for notification and warning
- > Over-speed alarms

camera and screen

Model	IDS-TCS402-B/CS/16
Image	 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	16 mm
Video Compression	H.265/H.264
Max. Resolution	2712 × 1536
Video Frame Rate	25 fps
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	
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/m²
Max. Visual Range	50 m
Power Supply	100 to 240 VAC
Max. Power Consumption	200 W
Materials	Aluminum plate
Dimension	Width: 740 mm; Height: 850 mm; Depth: 90 mm
Weight	25 kg

Model	YJP5474-28-1-R
Image	
Detection Distance	20 to 100 m
Speed Range	2 to 99 km/h
Detection Accuracy	± 2 km/h
Network Interface	1 × 100 M self-adaptive Ethernet interface
LED Light Bead	SLOW DOWN: 147 × red beads Speed limit: 196 × red beads and 196 × green beads
LED Wave Length	Red: 4500 to 7200 mcd/625 ± 5 nm Green: 6000 to 10800 mcd/506 ± 3 nm
Central Light Strength	150 to 400 cd
LED Visual Angle	≥ 30°
LED Service Life	≥ 100,000 hours
Protection Level	IP65
Power Supply	12 VDC, max. Current 4.2 A
Material	Galvanized steel plate with electrostatic spraying and reflective film
Dimension	740 mm × 535 mm × 111 mm (29.1" × 21.1" × 4.4")
Weight	With package: 18 ± 0.5 kg (39.7 ± 1.1) lb. Without package: 15.6 ± 0.5 kg (34.4 ± 1.1) lb.
Operating Condition	-30 °C to 70 °C (-22 °F to 158 °F) Humidity: 5 % to 95 % (non-condensing)





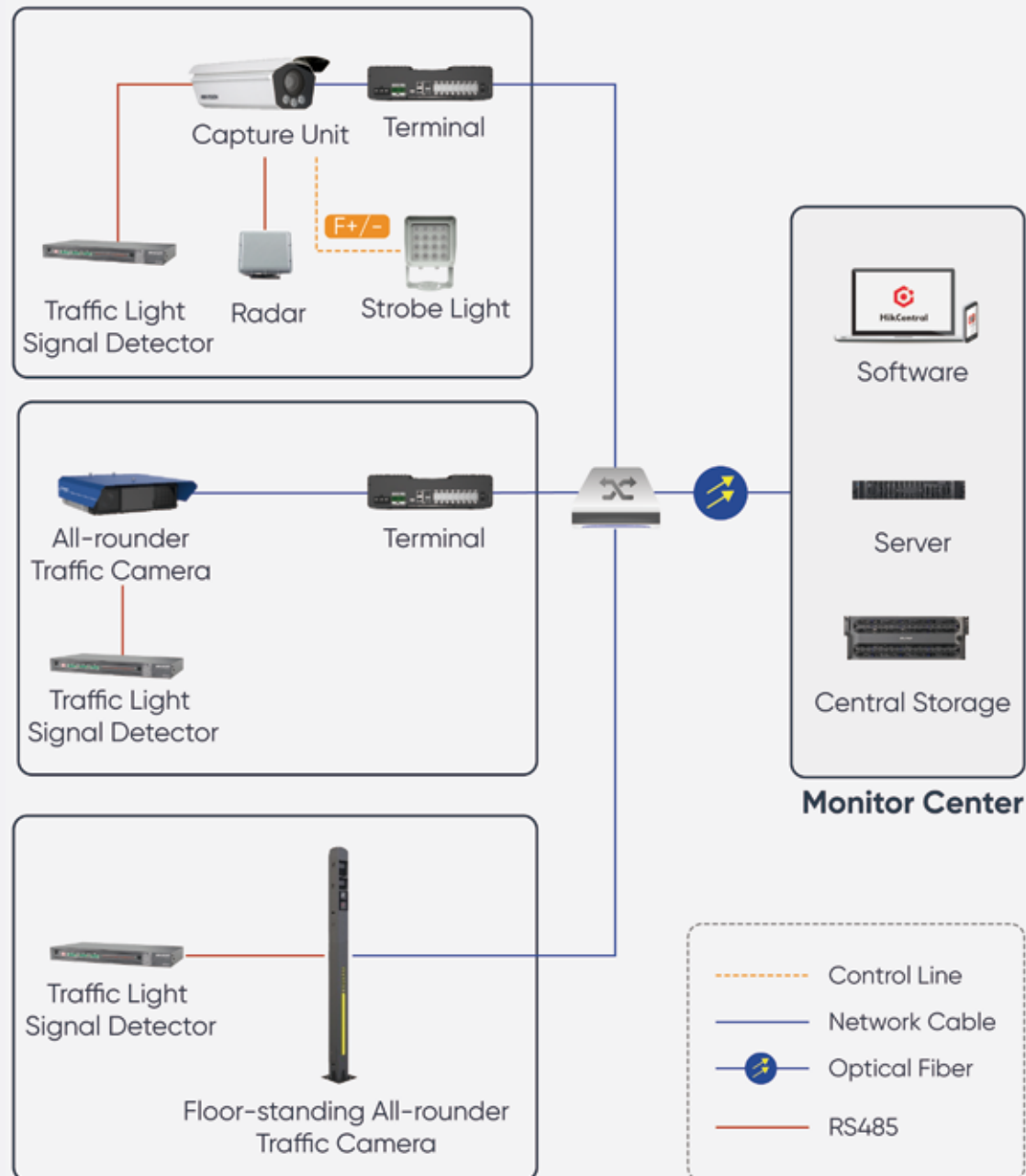
Intelligent Traffic System

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.

Hikvision launched innovative ITS cameras for intersection 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, 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.
- Application scenarios: intersection, T junction, other red light roads, etc.




All-Rounder Traffic Camera

Model	IDS-TCE507-BR/1550	IDS-TCE907-BR/1140
Image		
	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	11-40 mm
Light Range	Up to 40 m	Up to 40 m
Light Beads	16	16
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 320 km/h	10 to 320 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, vehicle color, vehicle manufacturer recognition; Radar speed detection; Running the red light, illegal lane change, wrong-way driving, solid line driving, driving in wrong lane at intersection, illegal U-turn detection	Vehicle type, vehicle color, vehicle manufacturer recognition; Radar speed detection; Running the red light, illegal lane change, wrong-way driving, solid line driving, driving in wrong lane at intersection, illegal U-turn 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	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black
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
Frame Rate	50 Hz: 50 fps, 60 Hz: 30 fps	50 Hz: 25 fps, 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



Intersection Violation Unit

Model	IDS-TCE500-B/1550/H1	IDS-TCE900-B/1140/H1
Image		
	Deep Learning	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	16 ch
RS485 Output Interface	6
DC Output Interface	5 V dc output
Pin Switch	5 ch
Light of Status	16
Range of Detection Voltage	140 VAC-270 VAC, 50 Hz/60 Hz
Working Voltage	220 VAC @ 50 Hz/60 Hz, 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	DS-TP50-08H
Image	 HOT	 NEW
Operating Interface	WEB	WEB
HDD Storage	4 x SATA (up to 6TB each HDD)	1 SATA HDD (Up to 4TB)
External Storage	1 eSATA interface for 1 external HDD	-
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	4 x 100M self-adaptive Ethernet Interface 2 x 10/100/1000 M self-adaptive Ethernet interface
Video Input	16-ch	4-ch & 4-ch via switches
Reset Button	1	-
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
USB Port	1	1
RS232	2	2
RS485	2	1
Alarm Input	2	1
Alarm Output	2	1
Operating System	Embedded Linux operating system	Embedded Linux operating system
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading	Automatic Network Replenishment (ANR) and manual uploading
Power Supply	12 VDC/12.5 A	12 VDC
Dimension (W × D × H)	370 × 273 × 102.5 mm (14.6 × 10.7 × 4.0 inch)	245 mm × 170 mm × 55 mm (9.6 × 6.7 × 2.1 inch)
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	-30 °C to +70 °C (-220 °F to +158 °F)
Working Humidity	10 % to 90 %	5 % to 95 %

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	10 °
Coverage	Single lane
Effective Distance	16-25 m
Trigger Manner	TTL level (switch trigger optional)
Trigger Level	4 V - 6 V (High Level Trigger)
Trigger Frequency	15 Hz-250 Hz
Trigger Duty Ratio	1 % - 39 % (Enter the protection state at Duty Ratio ≥ 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



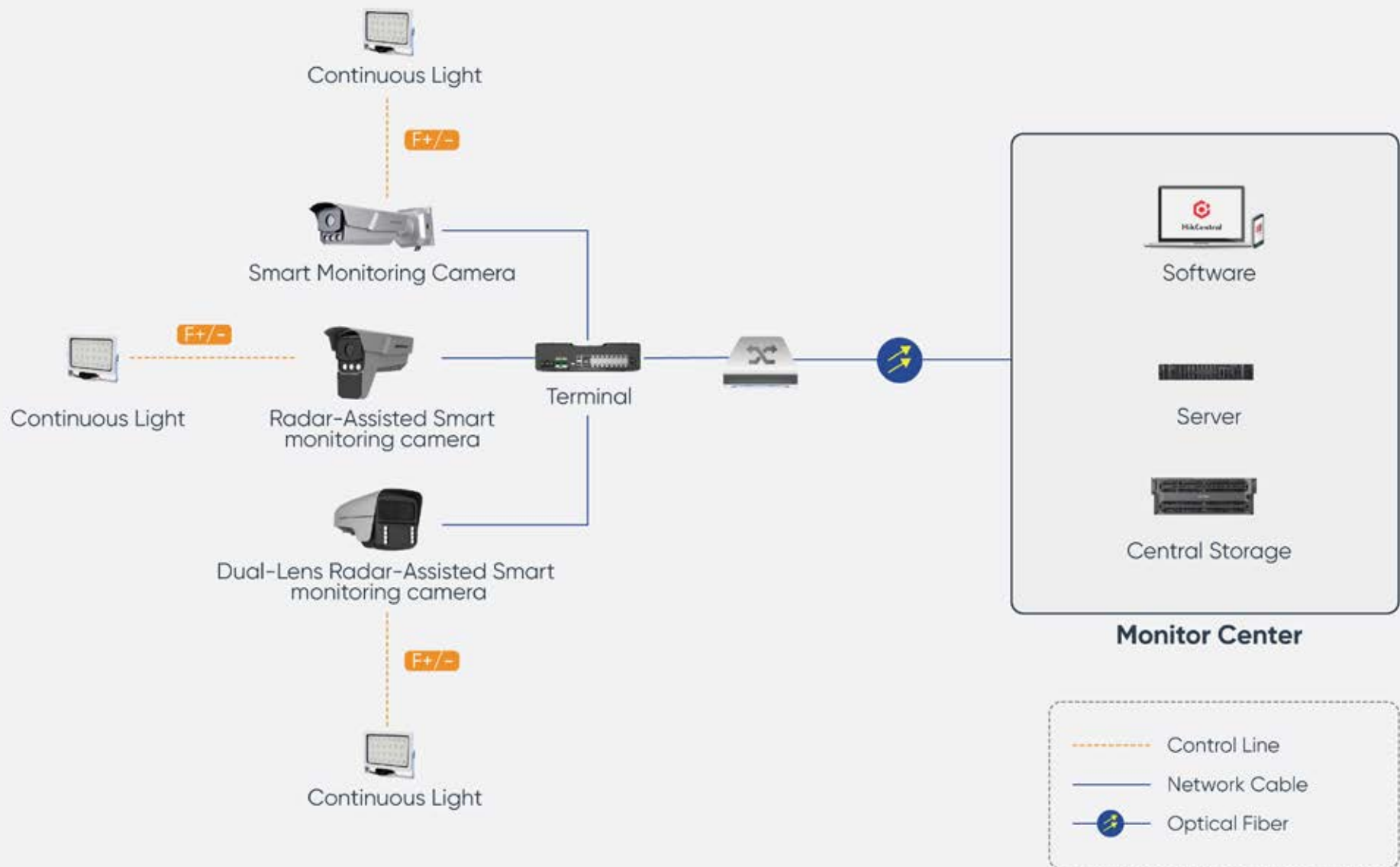
Intelligent Traffic System

Smart Monitoring System

This system is easy to install and improves efficiency. It monitors large areas and supports vehicle capture, ANPR and speed measurement. DarkFighter technology gives this system excellent image performance at all light levels.

A 4MP radar-assisted dual-sensor smart monitoring camera is newly released, consisting of a fixed-focal lens that can capture large scenes and a varifocal lens for detail capture. As well as radar and video fusion design, the video can analyze full structured data, while the radar performs long-distance detection and high-precision tracking.


- › 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
- › Speed measure between 10-100 km/h and target tracking by high frequency radar
- › 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




Smart Monitoring Unit


Model	IDS-TCM403-B	IDS-TCM403-BI	IDS-TCM441-FR
Image	 HOT	 HOT	 NEW
	Deep Learning	Deep Learning	Deep Learning
Focal Length	IDS-TCM403-B/0411: 4-11 mm IDS-TCM403-B/0832: 8-32 mm	IDS-TCM403-BI/0411: 4-11 mm IDS-TCM403-BI/0832: 8-32 mm	Varifocal lens: 10-50 mm Fixed-focal lens: 8 mm
Coverage	1-3 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	99 %	99 %	99 %
LPR Accuracy	98 %	98 %	98 %
Frame Rate	50 HZ: 2688 × 1520 @ 25 fps 60 HZ: 2688 × 1520 @ 30 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/Light Truck/SUV_MPV/Pickup/Motorcycle/Tricycle (08-32 mm)	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Motorcycle/Tricycle (08-32 mm)	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Motorcycle/Tricycle
Vehicle Color	Support (08-32 mm)	Recognizable at daytime only (08-32 mm)	Recognizable at daytime only
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	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
Communication Interface	1 RJ45 10M/100M/1000M Ethernet interface 1 RS-485 interface 1 Wiegand interface	1 RJ45 10M/100M/1000M Ethernet interface 1 RS-485 interface 1 Wiegand interface	1 RJ45 10M/100M/1000M Ethernet interface 1 RS-485 interface 1 Wiegand interface
ANPR Camera	4 MP (1/1.8" CMOS), max.2688 × 1520	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 IR lights	8 LED IR lights
Protection Level	IP67, IK10	IP67, IK10	IP67, IK10
Storage	Built-in micro SD/TF card, up to 128 GB	Built-in micro SD/TF card, up to 128 GB	Built-in micro SD/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)	380 × 203.2 × 209.2 mm (14.96×8×8.24 inch)
Weight	3.12 ± 0.5 kg (6.88 ± 1.1 lb)	3.12 ± 0.5 kg (6.88 ± 1.1 lb)	5 kg (11.02 lb)
Power Supply	12 VDC to 24 VDC ± 20%, PoE (802.3at, class 4)	12 VDC to 24 VDC ± 20%, PoE (802.3at, class 4)	36 VDC

Radar-Assisted Smart Monitoring Camera


Model	IDS-TCM403-EIR
Image	 NEW
	Deep Learning
Focal Length	IDS-TCM403-EIR/0411: 4-11 mm IDS-TCM403-EIR/0832: 8-32 mm
Light Range	Up to 30 m
Coverage	1-3 lanes
Radar Detection Distance	20 - 50 m (motor vehicles)
Radar & Capture Speed Range	10 to 100 km/h
Speed Measurement Accuracy	-2 to 2 km/h
Capture Accuracy	99 %
LPR Accuracy	98 %
Frame Rate	50 HZ: 2688 × 1520 @ 25 fps 60 HZ: 2688 × 1520 @ 30 fps
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Motorcycle/Tricycle
Vehicle Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black Recognizable at daytime only.
Video Compression	H.265/H.264/MJPEG
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Communication Interface	1 RJ45 10 M/100 M/1000 M Ethernet interface 1 RS-485 interface, 1 RS-232 interface
ANPR Camera	4 MP (1/1.8" CMOS), max.2688 × 1520
Supplement Light	3 LED lights
Protection Level	IP67
Storage	Built-in micro SD/TF card, up to 128 GB
Operating & Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating & Storage Humidity	Humidity: 95 % or less (non-condensing)
Dimensions (W × H × D)	115.5 mm (W) × 184.3 mm (H) × 298.6 mm (D) Without Package
Weight	2.5 ± 0.5 kg (5.5 ± 1.1 lb)
Power Supply	12 VDC to 24 VDC ± 20%, Max. 12 W

Traffic Server

Model	DS-TP50-16E
Image	 HOT
Operating Interface	WEB
HDD Storage	4 x SATA (up to 6TB each HDD)
External Storage	1 eSATA interface for 1 external HDD
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
Video Input	16-ch
Reset Button	1
Indicator	4 x indicator [1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator]
USB Port	1
RS232	2
RS485	2
Alarm Input	2
Alarm Output	2
Operating System	Embedded Linux operating system
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Power Supply	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 %

Model	DS-TP50-08H
Image	 NEW
Operating Interface	WEB
HDD Storage	1 SATA HDD (Up to 4TB)
External Storage	-
Network Interface	4 x 100 M self-adaptive Ethernet Interface 2 x 10/100/1000 M self-adaptive Ethernet interface
Video Input	4-ch & 4-ch via switches
Reset Button	-
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
USB Port	1
RS232	2
RS485	1
Alarm Input	1
Alarm Output	1
Operating System	Embedded Linux operating system
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Power Supply	12 VDC
Dimension (W × D × H)	245 mm × 170 mm × 55 mm (9.6 × 6.7 × 2.1 inch)
Working Temperature	-30 °C to +70 °C (-220 °F to +158 °F)
Working Humidity	5 % to 95 %

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 %, 47 Hz - 63 Hz	220 VAC ±20 %, 47 Hz - 63 Hz	220 VAC ±20 %, 47 Hz - 63 Hz
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)



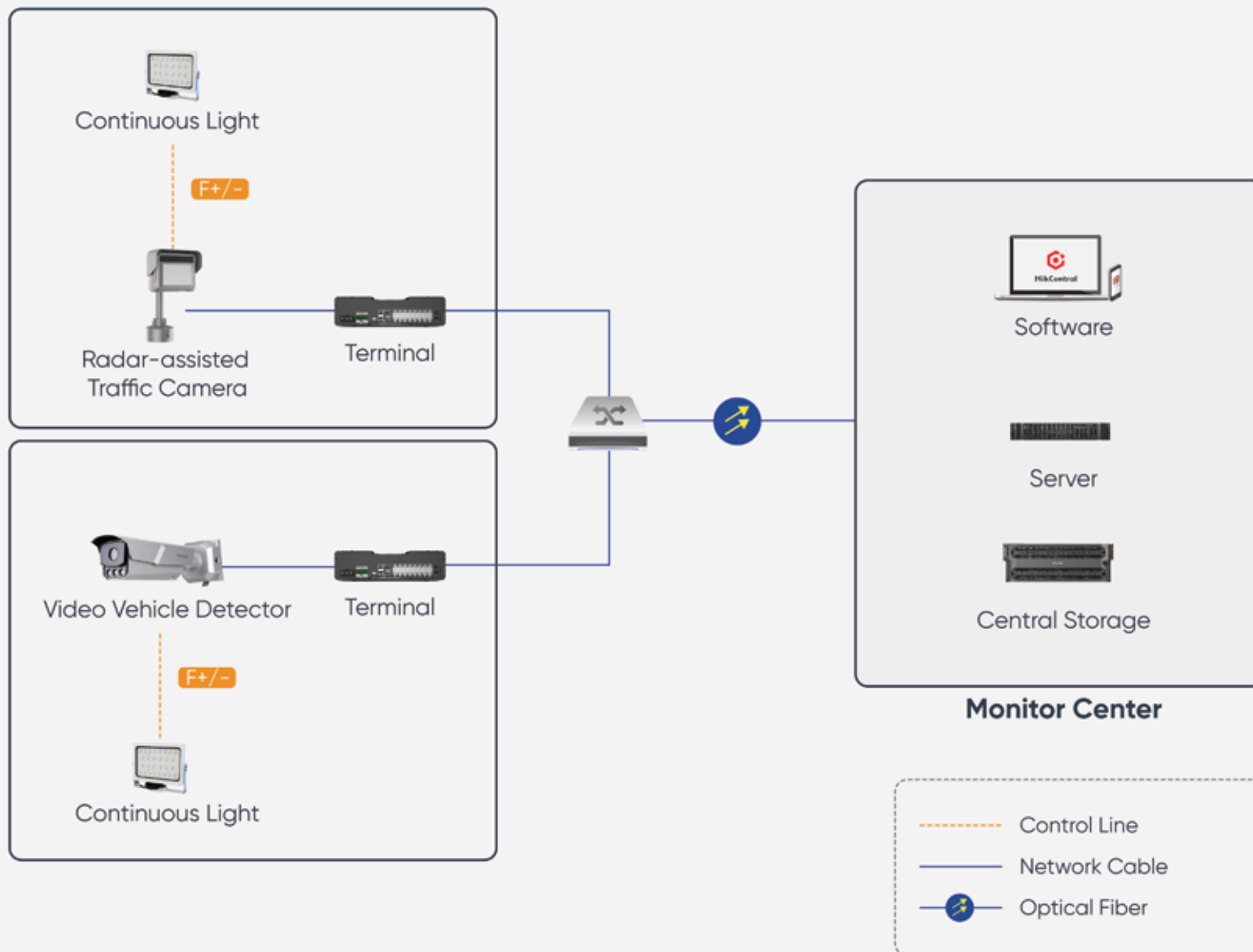
Intelligent Traffic System

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.

A traffic parameter collection radar is newly released. Compared with cameras, this radar can cover more lanes, track more targets, detect longer distances, and have higher detection accuracy. It can support all-weather work, not affected by weather, light, temperature, and other environments.


- > 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-BR)
- > 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)
- > Video and image storage up to 24-TB, data retrieval




Traffic Flow Detection Unit

Model	IDS-TCD403-BI
Image	 HOT Deep Learning
Light Range	Up to 100 m
Coverage	Up to 6 lanes
Vehicle Counting Accuracy	>95 %
Traffic Data Collection	Traffic flow, speed, status, queue, time headway, space headway, number of parking vehicle in area, space occupancy, time occupancy, etc.
LED Supplement Lights	Built-in 3 IR supplement lights
Camera	4 MP (1/1.8" CMOS), max. 2688 × 1520
Frame Rate	50 Hz: 2688 × 1520 @ 25 fps 60 Hz: 2688 × 1520 @ 30 fps
Video Compression	H.265/H.264
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Communication Interface	1 RJ45 10M/100M/1000M Ethernet interface 1 RS-485 interfaces 1 Wiegand interface
Lens	8-32 mm @ F1.63-1.8 Horizontal FOV: 39.7° to 15.9°; Vertical FOV: 22.3° to 9.1°; Diagonal FOV: 45.8° to 18.1°
Protection Level	IP67, IK10
Storage	Built-in microSD/TF card, up to 128 GB
Operating & Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Humidity	95% or less (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	12 VDC to 24 VDC ± 20%, PoE (802.3at, class 4), Max. 12 W

Radar-Assisted Traffic Camera

Model	IDS-TCD402-BR/12
Image	 Deep Learning
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	12 mm
Video Compression	H.265/H.264
Max. Resolution	2688 × 1520
Video Frame Rate	25 fps
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 100 M/1000 M 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)

Traffic Flow Radar

Model	DS-TDSB00-EML/350m
Image	 NEW
Working Frequency Range	60 to 61 GHz
Modulation Waveform	FMCW
Frescan Bandwidth	169 MHz@Narrow Beam
	500 MHz@Wide Beam
Distance Resolution	0.88 m@Narrow Beam
	0.3 m@Wide Beam
Distance Measurement Range	350 m@Narrow Beam
	100 m@Wide Beam
Horizontal Viewing Angle	-14.5° ~ +14.5° @Narrow Beam
	-60° ~ +60° @Wide Beam
Pitching Viewing Angle	-4.5° ~ 4.5° @Narrow Beam
	-12.6° ~ 12.6° @Wide Beam
Angle Resolution (0°)	1.86° @Narrow Beam
	6.23° @Wide Beam
Speed Measuring Range	-300 Km/h ~ 300 Km/h
Speed Measuring Error	-2 to 2 km/h
Trigger Mode	Approaching, leaving, bidirectional
Supported Number of Lane	1 to 8
Supported Number of target	1 to 256
Communication Interface	1 RJ45 10 M/100 M self-adaptive Ethernet interface 1 RS-485 interface
Working Voltage	12 to 24 VDC
Working Current	< 1500 mA
Consumption	< 18 W
Protection Level	IP67
Weight	1.75 kg
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

Traffic Server

Model	DS-TP50-16E	DS-TP50-08H
Image	 HOT	 NEW
Operating Interface	WEB	WEB
HDD Storage	4 x SATA (up to 6TB each HDD)	1 SATA HDD (Up to 4TB)
External Storage	1 eSATA interface for 1 external HDD	-
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	4 x 100 M self-adaptive Ethernet Interface 2 x 10/100/1000 M self-adaptive Ethernet interface
Video Input	16-ch	4-ch & 4-ch via switches
Reset Button	1	
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
USB Port	1	1
RS232	2	2
RS485	2	1
Alarm Input	2	1
Alarm Output	2	1
Operating System	Embedded Linux operating system	Embedded Linux operating system
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading	Automatic Network Replenishment (ANR) and manual uploading
Power Supply	12 VDC/12.5 A	12 VDC
Dimension (W × D × H)	370 × 273 × 102.5 mm (14.6 × 10.7 × 4.0 inch)	245 mm × 170 mm × 55 mm (9.6 × 6.7 × 2.1 inch)
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	-30 °C to +70 °C (-220 °F to +158 °F)
Working Humidity	10% to 90%	5% to 95%



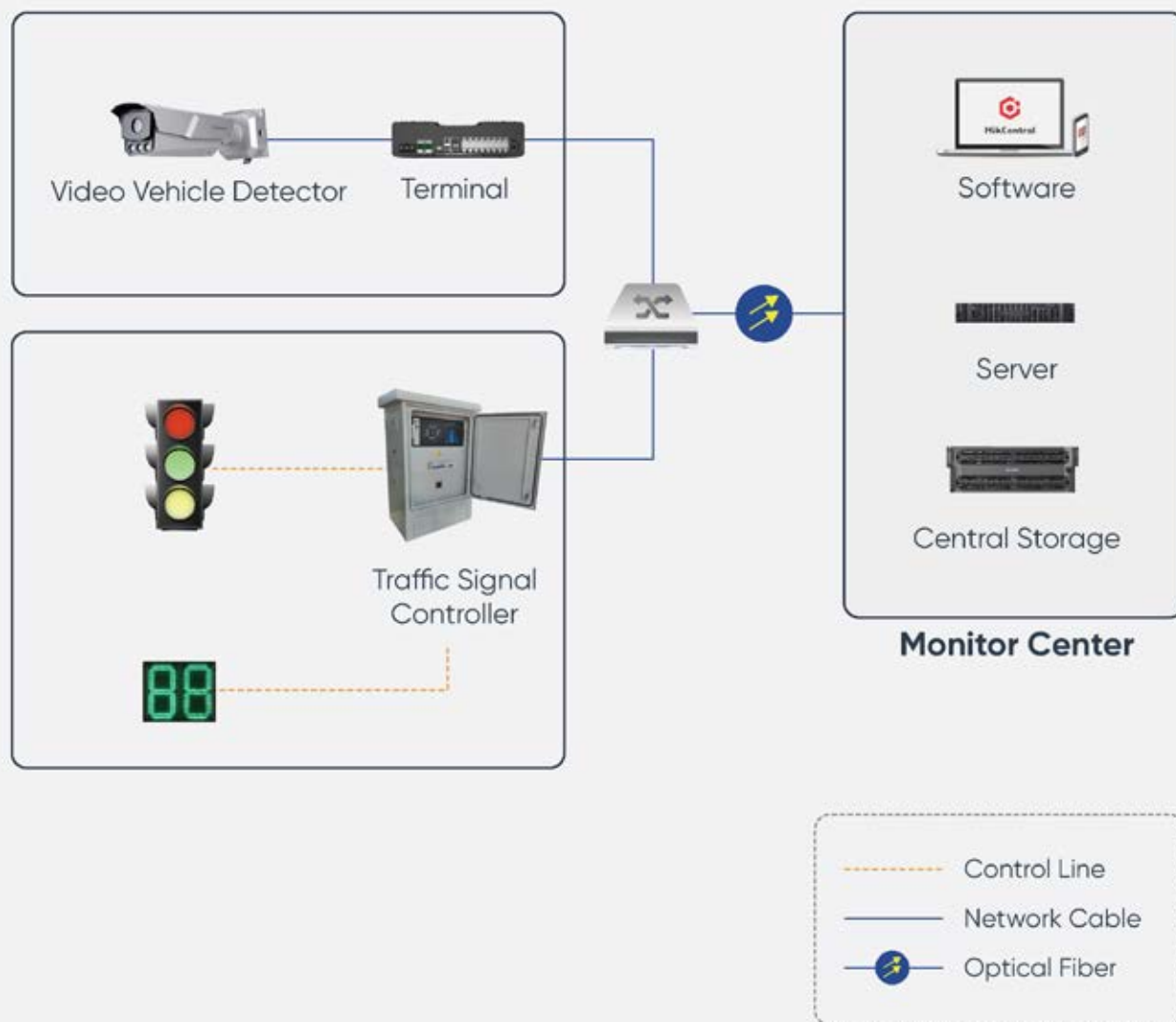
Intelligent Traffic System

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.

Several types of traffic signal lights are newly released, including arrow and disc-shaped lights for motor vehicles, pedestrian traffic lights, and countdown traffic lights.

- 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/HK3
Image	 NEW
Signal Light Output	44 × independent signal light output. Load capacity for one channel: 800 W
Signal Light Control Board	4
Equipment Cabinet	1
GPS Interface	1 GPS Satellite Signal Real-time Timing (Optional)
communication protocol	NTCIP
Network	1 × 100 M self-adaptive Ethernet interface
Other Interfaces	2 × RS-232, 2 × RS-4851 USB
External Input	8 × pedestrian button input
Working Voltage	220 ± 44 VAC/50 ± 2 Hz
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Working Humidity	45 % to 95 % (no condensing)
Consumption	< 35 W
Insulation Resistance	> 100 MΩ
IP Code	IP54
Dimensions (W × H × L)	Control Cabinet: 482.5 × 221 × 290 mm (19.0 × 8.7 × 11.4 inch)
	Equipment Cabinet: 600 × 1084 × 450 mm (23.6 × 42.7 × 17.7 inch)

Signal Light

Model	RX300-3-2010SS-1	RX300-3-3910SS-1	FX400-3-3021SS-1	FX400-3-3022SS-1
Image	 NEW	 NEW	 NEW	 NEW
LED				
LED Diameter	Ø 5 mm [Ø 0.2"]	Ø 5 mm [Ø 0.2"]	Ø 5 mm [Ø 0.2"]	Ø 5 mm [Ø 0.2"]
Number of LED	Red: 80, green: 90	Red light: 80, green light: 90, red countdown timer: 140, green countdown timer: 168	Red: 100, yellow: 100, green: 100	Red: 100, yellow: 100, green: 100
LED Wave Length	Red: 4500 mcd to 7200 mcd/625 ± 5 nm	Red: 4500 mcd to 7200 mcd/625 ± 5 nm	Red: 4500 mcd to 7200 mcd/625 ± 5 nm	Red: 4500 mcd to 7200 mcd/625 ± 5 nm
	Green: 6000 mcd to 10800 mcd/506 ± 3 nm	Green: 6000 mcd to 10800 mcd/506 ± 3 nm	Yellow: 4500 mcd to 7200 mcd/592 ± 3 nm	Yellow: 4500 mcd to 7200 mcd/592 ± 3 nm
	/	/	Green: 6000 mcd to 10800 mcd/506 ± 3 nm	Green: 6000 mcd to 10800 mcd/506 ± 3 nm
Central Brightness	150 cd to 400 cd	150 cd to 400 cd	5000 cd/m² to 15000 cd/m²	5000 cd/m² to 15000 cd/m²
LED Visual Angle	≥ 30°	≥ 30°	≥ 30°	≥ 30°
LED Visual Distance	≥ 400 m [1312"]	≥ 400 m [1312"]	≥ 400 m [1312"]	≥ 400 m [1312"]
LED Service Life	≥ 100,000 h	≥ 100,000 h	≥ 100,000 h	≥ 100,000 h
Appearance and Material				
Shield Diameter	Ø 300 mm [Ø 11.8"]	Ø 300 mm [Ø 11.8"]	Ø 400 mm [Ø 15.8"]	Ø 400 mm [Ø 15.8"]
Shield Material	PC	PC	PC	PC
Housing Material	PC + ABS (plastic), surface treatment, black	PC + ABS (plastic), surface treatment, black	PC + ABS (plastic), surface treatment, black	PC + ABS (plastic), surface treatment, black
Traffic Signal Light Pattern	Red pedestrian pattern + static green pedestrian pattern	Red pedestrian pattern + static green pedestrian pattern + 2-digit countdown timer	Left arrow	Straight arrow
Shade Dimension	770 mm × 250 mm [30.3" × 9.8"]	770 mm × 250 mm [30.3" × 9.8"]	1000 mm × 390 mm [39.4" × 15.4"]	1000 mm × 390 mm [39.4" × 15.4"]
Shade Material	Galvanized steel sheet	Galvanized steel sheet	Galvanized steel sheet	Galvanized steel sheet
General				
Working Voltage	176 to 265 VAC, 50 ± 3 Hz	176 to 265 VAC, 50 ± 3 Hz	176 to 265 VAC, 50 ± 3 Hz	176 to 265 VAC, 50 ± 3 Hz
Rated Power	≤ 10 W	≤ 20 W	≤ 15 W	≤ 15 W
Working Temperature	-40 °C to 80 °C [-40 °F to 176 °F]	-40 °C to 80 °C [-40 °F to 176 °F]	-40 °C to 80 °C [-40 °F to 176 °F]	-40 °C to 80 °C [-40 °F to 176 °F]
Working Humidity	10 % to 95 %	10 % to 95 %	10 % to 95 %	10 % to 95 %
Storage Environment	0 °C to 50 °C [32 °F to 122 °F], 40 % RH to 60 % RH	0 °C to 50 °C [32 °F to 122 °F], 40 % RH to 60 % RH	0 °C to 50 °C [32 °F to 122 °F], 40 % RH to 60 % RH	0 °C to 50 °C [32 °F to 122 °F], 40 % RH to 60 % RH
Insulation Resistance	≥ 500 MΩ	≥ 500 MΩ	≥ 500 MΩ	≥ 500 MΩ
Dielectric Strength	≥ 1500 V	≥ 1500 V	≥ 1500 V	≥ 1500 V
Transformer	24 VAC	24 VAC	24 VAC	24 VAC
Access Interface	220 VAC, live line (red, yellow, and green), zero line	220 VAC, live line (red, yellow, and green), zero line	220 VAC, live line (red, yellow, and green), zero line	220 VAC, live line (red, yellow, and green), zero line
Single-Tube Current	≤ 20 mA	≤ 20 mA	≤ 20 mA	≤ 20 mA
Protection	IP53	IP53	IP53	IP53
Weight	≤ 10 kg [22.1 lb.]	≤ 14 kg [30.9 lb.]	≤ 26 kg [57.3 lb.]	≤ 26 kg [57.3 lb.]
Timer				
Timer Mode	/	Learning/trigger/RS-485 communication	/	/
Display Value	/	/	/	/
Digit Dimension	/	/	/	/
Digit Distance	/	/	/	/
Digit Width	/	/	/	/

Model	FX400-3-3023SS-1	JD400-3-301SS-1	DX-3-T-1-80607S11-1
Image	 	 	 
LED			
LED Diameter	Φ 5 mm (Φ 0.2")	Φ 5 mm (Φ 0.2")	Φ 5 mm (Φ 0.2")
Number of LED	Red: 100, yellow: 100, green: 100	Red: 160, yellow: 160, green: 151	Red: 406, green: 406, yellow: 280
LED Wave Length	Red: 4500 mcd to 7200 mcd/625 ± 5 nm	Red: 4500 mcd to 7200 mcd/625 ± 5 nm	Red: 628 nm ± 1 nm
	Yellow: 4500 mcd to 7200 mcd/592 ± 3 nm	Yellow: 4500 mcd to 7200 mcd/592 ± 3 nm	yellow: 590 nm ± 1 nm
	Green: 6000 mcd to 10800 mcd/506 ± 3 nm	Green: 6000 mcd to 10800 mcd/506 ± 3 nm	green: 505 nm ± 1 nm
Central Brightness	5000 cd/m² to 15000 cd/m²	5000 cd/m² to 15000 cd/m²	5000 cd/m² to 15000 cd/m²
LED Visual Angle	≥ 30°	≥ 30°	≥ 30°
LED Visual Distance	≥ 400 m (1312")	≥ 400 m (1312")	≥ 400 m (1312")
LED Service Life	≥ 100,000 h	≥ 100,000 h	≥ 100,000 h
Appearance and Material			
Shield Diameter	Φ 400 mm (Φ 15.8")	Φ 400 mm (Φ 15.8")	/
Shield Material	PC	PC	PC
Housing Material	PC + ABS (plastic), surface treatment, black	PC + ABS (plastic), surface treatment, black	PC + ABS (plastic), surface treatment, black
Traffic Signal Light Pattern	Right arrow	Round signal light	/
Shade Dimension	1000 mm × 390 mm (39.4" × 15.4")	1000 mm × 390 mm (39.4" × 15.4")	750 mm × 240 mm (29.5" × 9.4"), 460 mm × 240 mm (18.1" × 9.4")
Shade Material	Galvanized steel sheet	Galvanized steel sheet	Galvanized steel sheet
General			
Working Voltage	176 to 265 VAC, 50 ± 3 Hz	176 to 265 VAC, 50 ± 3 Hz	176 to 265 VAC, 50 ± 3 Hz
Rated Power	≤ 15 W	≤ 15 W	≤ 25 W
Working Temperature	-40 °C to 80 °C [-40 °F to 176 °F]	-40 °C to 80 °C [-40 °F to 176 °F]	-40 °C to 80 °C [-40 °F to 176 °F]
Working Humidity	10 % to 95 %	10 % to 95 %	10 % to 95 %
Storage Environment	0 °C to 50 °C (32 °F to 122 °F), 40% RH to 60% RH	0 °C to 50 °C (32 °F to 122 °F), 40 % RH to 60 % RH	0 °C to 50 °C (32 °F to 122 °F), 40 % RH to 60 % RH
Insulation Resistance	≥ 500 MΩ	≥ 500 MΩ	≥ 500 MΩ
Dielectric Strength	≥ 1500 V	≥ 1500 V	≥ 1500 V
Transformer	24 VAC	24 VAC	/
Access Interface	220 VAC, live line (red, yellow, and green), zero line	220 VAC, live line (red, yellow, and green), zero line	220 VAC, left red, left yellow, left green, straight red, straight yellow, and zero line
Single-Tube Current	≤ 20 mA	≤ 20 mA	≤ 20 mA
Protection	IP53	IP53	IP53
Weight	≤ 26 kg (57.3 lb.)	≤ 26 kg (57.3 lb.)	≤ 14 kg (30.9 lb.)
Timer			
Timer Mode	/	/	Follow/trigger/RS-485 communication
Display Value	/	/	Red: 99 to 1, green: 99 to 1, yellow: 9 to 1
Digit Dimension	/	/	520 mm × 280 mm (20.5" × 11.0")
Digit Distance	/	/	115 mm (4.5")
Digit Width	/	/	46 mm (1.8")



Intelligent Traffic System

Automatic Incident Detection System



Hikvision's Traffic Incident Detection system is an early warning system for collecting evidence around incidents and parameters that affect vehicles and traffic safety on the road. It's the best tool to ensure safety and promote an efficient traffic flow.

All-rounder traffic incident detection camera supports front-end detection of multiple incidents, including fallen objects, pedestrians, illegal parking, road construction, congestion, weaving out of the lane, fire detection(Thermal Lens) etc. Also, it supports multiple traffic parameter collection: vehicle type, lane flow, lane speed, queuing length, traffic status, etc.



Except all-rounder traffic incident detection camera, Hikvision has Traffic Incident Detection server that can access to IP cameras and speed domes to detect traffic incidents and collect traffic parameters simultaneously. 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
- Traffic Incident Detection server supports 4-ch 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, fire detection, Congestion, Lane Traffic Flow


Traffic incident unit

Model	IDS-TCS800-C	IDS-TCS800-CI
Image	 <p>Deep Learning</p>	 <p>Deep Learning</p>
Image Sensor	1/1.2" CMOS	1/1.2" CMOS
Resolution	3840 × 2160	3840 × 2160
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Focal Length & FOV	15-50 mm; Horizontal: 42.7° to 13.7°, vertical: 23.4° to 7.6°, diagonal: 49.7 to 15.8°	15-50 mm; Horizontal: 42.7° to 13.7°, vertical: 23.4° to 7.6°, diagonal: 49.7 to 15.8°
Light Beads	16	16
Wavelength	/	850 nm
Coverage	2-3 lanes	2-3 lanes
Smart Function	Supports detection of driving on lane line, illegal lane change, wrong-way driving, illegal parking, lane occupied by large truck, roadblock, construction, dropping objects, pedestrians, congestion, vehicle type, lane flow, lane speed, space headway, time headway, lane time occupancy rate, lane space occupancy rate, queuing length, and traffic status, etc.	Supports detection of driving on lane line, illegal lane change, wrong-way driving, illegal parking, lane occupied by large truck, roadblock, construction, dropping objects, pedestrians, congestion, vehicle type, lane flow, lane speed, space headway, time headway, lane time occupancy rate, lane space occupancy rate, queuing length, and traffic status, etc.
Protocols	TCP/IP, HTTP, DNS, RTP, RTSP	TCP/IP, HTTP, DNS, RTP, RTSP
Frame Rate	50 Hz: 25 fps 60 Hz: 30 fps	50 Hz: 25 fps 60 Hz: 30 fps
Protection Level	IP66	IP66
Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface; 1 1000 M fiber interface; 1 RS-485 interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface; 1 1000 M fiber interface; 1 RS-485 interface
Local Storage	TF card, up to 128 GB	TF card, up to 128 GB
Weight	Approx. 6.5 ± 0.5 kg (14.3 ± 1.1 lb.)	Approx. 6.5 ± 0.5 kg (14.3 ± 1.1 lb.)
Dimensions (W × H × D)	175.7 × 141.1 × 500.5 mm (6.9" × 5.6" × 19.7")	175.7 × 141.1 × 500.5 mm (6.9" × 5.6" × 19.7")
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	24 VDC ± 20 %, PoE (802.3at, class 4), 24 W MAX	24 VDC ± 20 %, PoE (802.3at, class 4), 24 W MAX

All-Rounder Traffic Incident Detection Camera

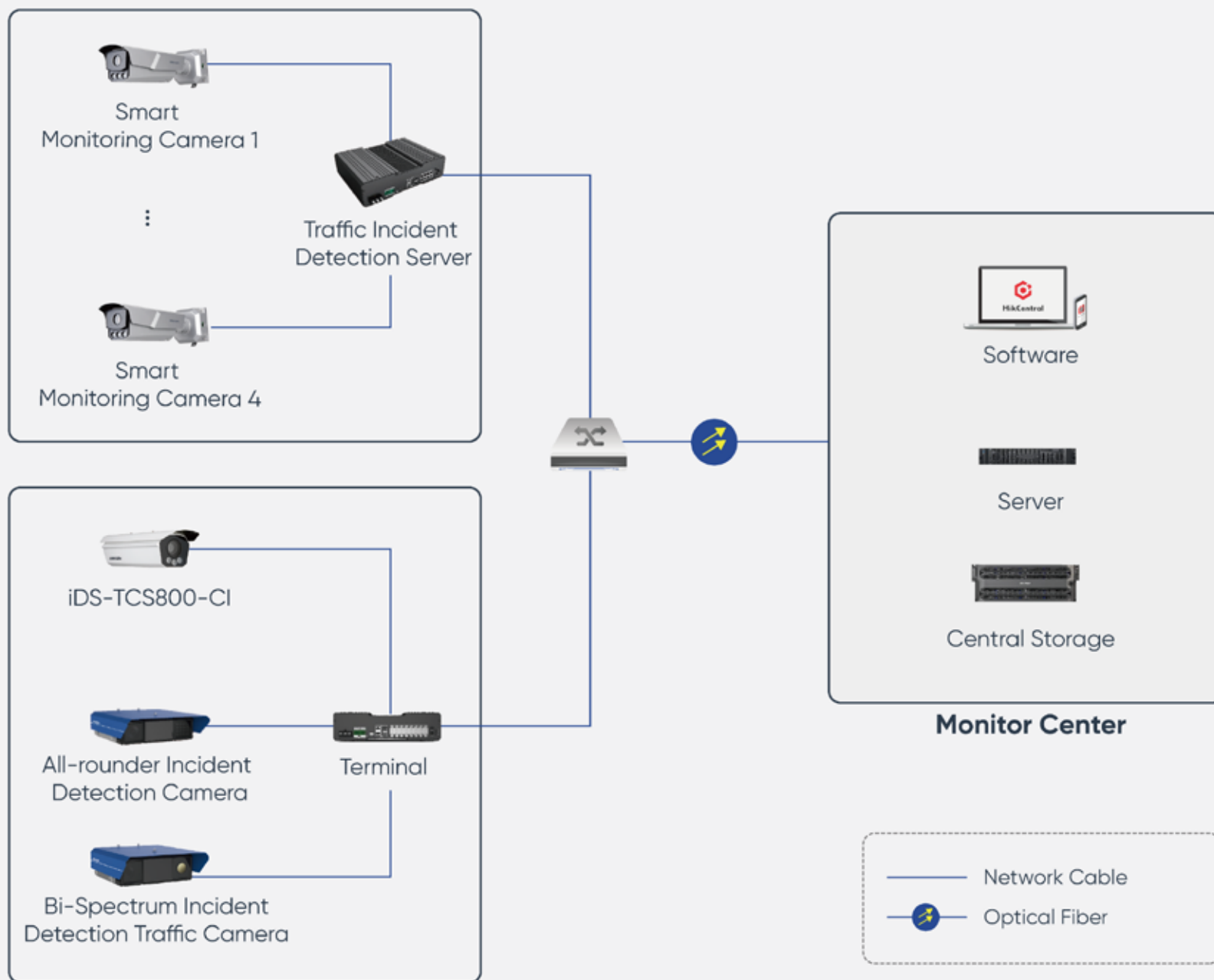
Model	IDS-TCS907-CER	IDS-TCS907-CIR
Image	 <p>Deep Learning</p>	 <p>Deep Learning</p>
Image Sensor	2/3" GMOS	2/3" GMOS
Resolution	4096 × 2160	4096 × 2160
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Focal Length & FOV	11- 40 mm; Horizontal: 62° to 23.6°, vertical: 32.2° to 12.2°	11- 40 mm; Horizontal: 62° to 23.6°, vertical: 32.2° to 12.2°
Light Beads	16	16
Wavelength	/	850 nm
Coverage	2-3 lanes	2-3 lanes
Smart Function	Supports detection of phone calling, non-seatbelt, driving on lane line, illegal lane change, wrong-way driving, illegal parking, lane occupied by large truck, roadblock, construction, dropping objects, pedestrians, congestion, etc.	Supports detection of phone calling, non-seatbelt, driving on lane line, illegal lane change, wrong-way driving, illegal parking, lane occupied by large truck, roadblock, construction, dropping objects, pedestrians, congestion, etc.
Protocols	TCP/IP, HTTP, DNS, RTP, RTSP	TCP/IP, HTTP, DNS, RTP, RTSP
Frame Rate	50 Hz: 25 fps; 60 Hz: 30 fps	50 Hz: 25 fps; 60 Hz: 30 fps
Protection Level	IP54	IP54
Interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interfaces; 3 RS-485 interfaces, 1 RS-232 interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interfaces; 3 RS-485 interfaces, 1 RS-232 interface
Local Storage	TF card, up to 128 GB	TF card, up to 128 GB
Weight	7 ± 0.5 kg (15.4 ± 1.1 lb)	7 ± 0.5 kg (15.4 ± 1.1 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	100 to 240 VAC 80 W MAX	100 to 240 VAC 80 W MAX

BI-Spectrum Incidente Traffic C

Model	IDS-TCS817-CR
Image	
	Deep Learning
Optical	
Image Sensor	8 MP (1/1.2" CMOS)
Min. Illumination	Color: 0.001 Lux@F1.4, AGC ON) , 0.0005 Lux with IR
Focal Length & FOV	15- 50 mm; Horizontal: 42.7° to 13.7°, Vertical: 23.4° to 7.6° 5.7-21 mm Horizontal: 106.5° to 33.1°, Vertical: 60.2° to 18.7°
Thermal	
Resolution	640 x 512
Focal Length	10 mm, 15 mm, 25 mm, 50 mm
Radar	
Frequency	77 Ghz
Measurment Range	2 to 200 km/h
Measurement Accuracy	±2 km/h
Coverage	Up to 3 lanes
General	
Video Compression	H.265/H.264/MJPEG
Smart Function	Vehicle type, lane flow, lane speed, space headway, time headway, lane time occupancy rate, lane space occupancy rate, queuing length, and traffic status Driving on lane line, lane change, wrong-way driving, stopped vehicle, Emergency lane occupation, roadblock, construction, fallen object, pedestrians, congestion, fire/smoke in tunnel detection, Speed drop, speeding, low-speed driving
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Frame Rate	50 Hz: 25 fps 60 Hz: 30 fps
Protection Level	IP54
Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1 RS-485 interface, 6 Alarm Output
Local Storage	Built-in micro SD/TF card, up to 128 GB
GPS	Optional
Temperature Sensor	Optiona;
Weight	7.2 ± 0.5 kg (15.9 ± 1.1 lb)
Dimensions (W × H × D)	437 × 391 × 139.65 mm (17.2 × 15.39 × 5.50 inch)
Operating Temperature	-30 °C to 70 °C (-22 °F to 158 °F)
Humidity	95 % or less, non-condensing
Power	100 to 240 VAC (with power adapter, by default) 36 VDC ± 20 % (without power adapter) 70 W MAX

AID Server

Model	IDS-TSS300-C/04	IDS-TSS500-C/16
Image		
	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 10/100/1000 M 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


Multi-Lens LPR Camera

Multi-Lens LPR camera can be used at Highway Toll station to obtain the multiple attributes of vehicles to improve the efficiency and accuracy of vehicle classification. With Built-in Triple-lens, it can recognize the number of vehicle axles and tires based on the video detection, capture and output the complete side view picture of the vehicle with extra long body. It also supports vehicle head and tail capture with LPR and vehicle features information.

- Built-in triple-lens camera with 4 MP CMOS sensor
- Smart stitching complete side view picture of the vehicle
- Vehicles capture, LPR and vehicle features recognition (main brand, sub-brand, and color)
- Adjustable built-in 3 group white LED supplement
- Low illumination. Color: 0.01 Lux @ (F1.5, AGC ON)



Multi-Lens LPR Camera

Model	IDS-TCH44P-B
Image	 NEW Deep Learning
Image Sensor	4 MP (1/1.8" CMOS) × 3
Resolution	2688 × 1520. No limit on the width of combined vehicle body pictures.
HVideo Compression	H.264/H.265
Focal Length & FOV	Left& Right: 4 to 100 mm vari-focal Vertical FOV: 59.4 to 23.6 Diagonal 144.5 to 48.1 Middle: 3.2 mm fixed lens Horizontal FOV: 136, Vertical: 73, Diaonal : 156
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
API	ISAPI, SDK
Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1 RS-485 Interface 2 X I/O interface
Storage	Built-in microSD/TF card, up to 128 GB
Smart Function	License plate recognition, vehicle axles and tyres number recognition, and vehicle features recognition
Frame Rate	50 Hz: 25 fps/60 Hz: 30 fps
Weight	19 ± 0.5 kg (41.8 ± 1.1 lb.)
Dimensions (W × H × D)	With package: 1925 mm × 410 mm × 370 mm (75.7" × 16.14" × 14.56")
Operating Condition	Temperature: -30 °C to 70 °C (-22 °F to 158 °F) Humidity: 95 % or less (non-condensing)
Power	100 to 240 VAC



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	 HOT	 HOT	 HOT
	Deep Learning	Deep Learning	Deep Learning	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, 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)
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

> Traffic guidance Screen

- The traffic guidance screens can display a variety of traffic guidance information, such as road danger factors and traffic flow information.
- For the screens, customers can choose different size and pixel pitch according to their needs.



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	1150 g	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)

Model	YDBZ-0-C-HKYD-10X		YDBZ-0-C-HKYD-16X		YDBZ-0-C-HKYD-31X	
	YDBZ-0-C-HKYD-100	YDBZ-0-C-HKYD-101	YDBZ-0-C-HKYD-160	YDBZ-0-C-HKYD-161	YDBZ-0-C-HKYD-310	YDBZ-0-C-HKYD-311
Image						
LED Lamp Luminance	8000 cd/m2	8500 cd/m2	8000 cd/m2	8500 cd/m2	8000 cd/m2	8500 cd/m2
Pixel Pitch	10 mm		16 mm		31.25 mm	
Module Dimension	320 mm × 160 mm		256 mm × 256 mm		250 mm × 250 mm	
Module Resolution	32 × 16		16 × 16		8 × 8	
Cabinet Dimension	960 mm × 960 mm		1024 mm × 1024 mm		1000 mm × 1000 mm	
Scanning Mode	0.25		Static		Static	
Pixel Density	10000		3906		1024	
Pixel Configuration	1R1G1B		1R1G1B		4R2G1B	
Angle of View (Vertical/Horizontal)	H: 110°/V: 55°					
Flatness	≤ 1 mm					
Cabinet Material	Cold-rolling steel sheet (two-tier)					
Cabinet Weight	Approx. 55 kg (121.25 lb.)					
Sight Distance	Picture ≥ 200 m; Character ≥ 150 m					
Refresh Rate	≥ 800 Hz					
Contrast	10,000: 1					
Supply Voltage	220 VAC, 50 to 60 Hz					
Power Consumption (Max./Average)	700 W/m² [245 W]		700 W/m² [245 W]		700 W/m² [245 W]	
Working Temperature	-40 °C to 70 °C [-40 °F to 158 °F]					
Working Humidity	10 % to 90 % RH					
Service Life	≥ 100,000 h					
Out of Control Ratio	≤ 1/10,000 (The ratio is zero before leaving the factory.)					
Blind Spot Ratio	1/10,000					
Mean Time between Failure	≥ 10,000 h					
Complete Machine Aging	≥ 48 h					
Attenuation Ratio (after working 3 years)	≤ 30 %					

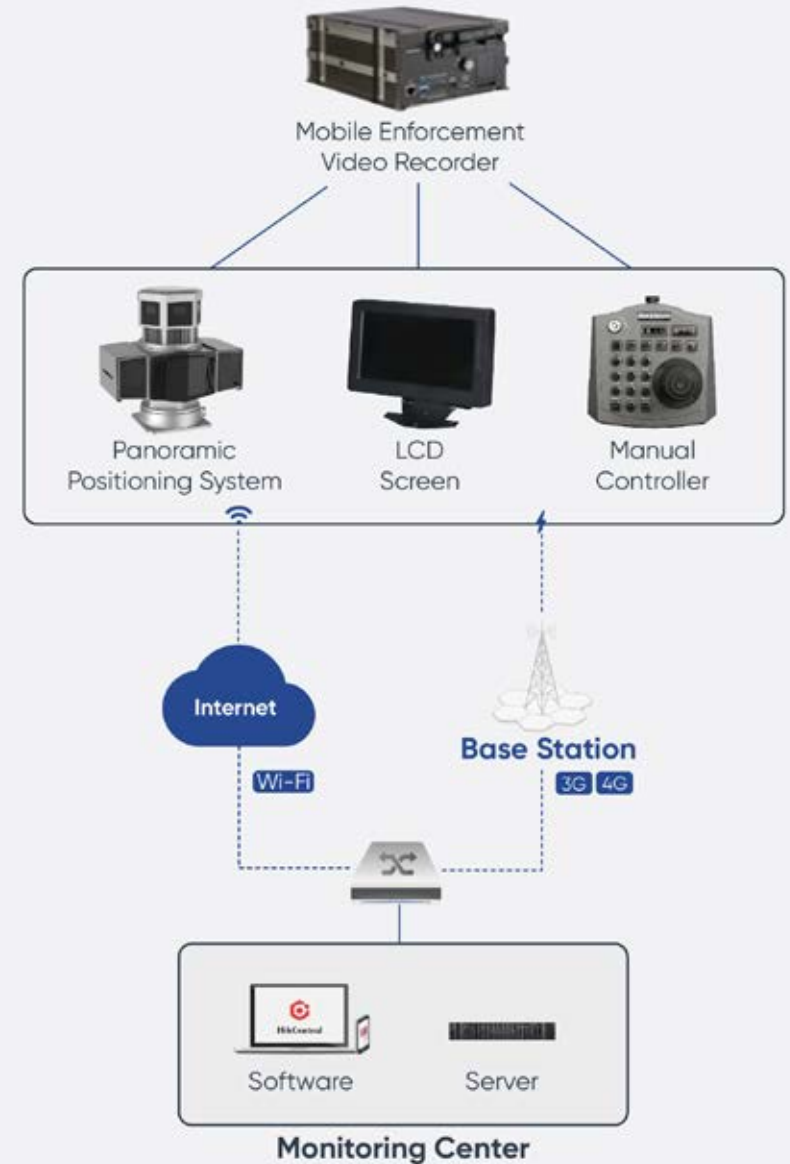
Intelligent Traffic System

Mobile Enforcement System


Mobile enforcement system adopts multiple key technology. The whole system is composed of mobile enforcement video recorder, positioning system, manual controller, and LCD screen. Mobile enforcement system provides a complete solution for the traffic law enforcement, security protection, emergency commanding, and other projects. It is widely applied to the police vans, special vehicles, emergency scenes and etc.

A road maintenance system is newly released, which can support six types of road diseases detection under 100km/h vehicle speed, and it can cover up to 3 lanes.



- > The system supports 1-ch positioning system and 4-ch network cameras
- > Positioning system provides 360° panoramic view which is composed of two 180° view pictures with each spliced by 3 cameras covering front and rear view of vehicle
- > Supports LPR recognition, illegal parking capture, road diseases detection(for road maintenance system)
- > Pluggable 3G/4G module and Wi-Fi module providing flexible data transmission solutions
- > Built-in GPS module precisely positioning the vehicle via the satellite and recording the location information in the video stream
- > Device adopts the aviation plug design to ensure signal stability
- > Aluminum die-cast chassis with no-fan design well adaptable to working environment.




Mobile Enforcement System


Model	DS-MI9605-Q36
Image	
Video input	1-ch PTZ Camer (Aviation) 4-ch IP cameras (Aviation)
Two-way audio	1-ch, G.722
Video output	1-ch CVBS output 1-ch VGA output 1-ch HDMI output
Video compression	H.264, H.265
Max resolution	Main stream: 1080 P Sub-Stream: 4 CIF
Frame rate	PAL: 1 to 25 fps; NTSC: 1 to 30 fps
HDD/SSD	1 × 2.5 inch HDD/SSD. Up to 2 TB for each HDD/SSD 1 × SD card (stores data when HDDs/SSDs are damaged)
3G/4G dialing	3G/4G (optional)
Wi-Fi	2.4 GHz
GNSS (Global Navigation Satellite System)	GPS/GLONASS
Network interface	Front panel: 1 × 10 M/100 M/1000 M Ethernet interface Rear panel: 4 × (4-pin 10 M/100 M aviation plug, 1 × 2-pin power supply)
Serial port	1 × RS-232
USB interface	Front panel: 2 × USB 3.0. Rear panel: 1 × USB 2.0 of 5-pin aviation plug
Alarm input	8 high/low level signal inputs
Power supply	9 to 32 VDC
Consumption	Standby: ≤ 0.5 W Full load: ≤ 99 W Note: Without peripheral and storage media ≤ 20 W
Working temperature	Device of which the dummy HDD with heating function: -30 °C to +60 °C (-22 °F to +140 °F) Other devices: -10 °C to +60 °C (14 °F to 140°F)
Working humidity	10 % to 90 %
Dimensions (W × D × H)	205 × 256 × 102.3 mm (8.1 × 10.1 × 4.0 inch)

Panoramic Positioning System

Model	IDS-TCC246-C-WGI/4M/5	IDS-TCC246-C-WGI/DLYH/4M/5
Image		
PTZ		
Image Sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Resolution	50 Hz: 25 fps (2560 × 1544/1920 × 1080) 60 Hz: 30 fps (2560 × 1544/1920 × 1080)	50 Hz: 25 fps (2560 × 1544/1920 × 1080) 60 Hz: 30 fps (2560 × 1544/1920 × 1080)
Focal Length	5.9 to 135.7 mm, 23x optical zoom	5.9 to 135.7 mm, 23x optical zoom
Zoom Speed	4.8 s (optical, wide-tele)	4.8 s (optical, wide-tele)
Rotation Angle	Horizontal: 360° unlimited; Vertical: -90° to 90°	Horizontal: 360° unlimited; Vertical: -90° to 90°
Preset Speed	Horizontal: 100°/s; Vertical: 80°/s	Horizontal: 100°/s; Vertical: 80°/s
DNR	3D DNR	3D DNR
WDR	Supported	Supported
Picture Configuration	Brightness, contrast, sharpness, saturation	Brightness, contrast, sharpness, saturation
Digital Zoom	12	12
Manual Control of Speed	Horizontal: 0 to 60°/s; Vertical: 0 to 40°/s	Horizontal: 0 to 60°/s; Vertical: 0 to 40°/s
Number of Preset	256	256
Number of Patrol	8	8
Panoramic		
Image Sensor	6 × 1/1.8" Progressive Scan CMOS	6 × 1/1.8" Progressive Scan CMOS
Resolution	2688x1520 / 7256x1520 (Splicing)	2688x1520 / 7256x1520 (Splicing)
Focal Length	5 mm	5 mm
3D Positioning	Supports 3D positioning linkage in panoramic view	Supports 3D positioning linkage in panoramic view
General		
Bitrate	32 Kbps-12 Mbps	32 Kbps to 12 Mbps
Security Mechanism	Password protection, multi-user access control	Password protection, multi-user access control
Image Compression	H.264/H.265	H.264/H.265
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS
Network Interface	1 RJ45 10M/100M Ethernet interface, supporting remote upgrade	1 RJ45 10M/100M Ethernet interface, supporting remote upgrade
Power Supply	8 to 36 VDC	8 to 36 VDC
Protection Level	IP66	IP66
Working Temperature	-35 °C to +55 °C (-31 °F to +131 °F)	-35 °C to +55 °C (-31 °F to +131 °F)
Consumption	Max. < 85 W (Supplement light enabled)	Max. < 85 W (Supplement light enabled)
Working Humidity	< 90 %	< 90 %
Weight	12 kg (26.5 lb)	12 kg (26.5 lb)

Road Maintenance Panoramic Positioning System

Model	DS-MP1308
Image	
Screen	Multi-touch 7-inch
Screen Resolution	1280 × 800 RGB
Material	TFT
Backlight Mode	LED Backlight
Consumption	≤ 5 W
Working Voltage	12 V
Working Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Working Humidity	10 % to 95 %
Weight	0.6 kg (1.3 lb)
Dimension(W × D × H)	192.38 × 24.5 × 120.88 mm

Model	DS-MP1010K
Image	
Switch	1 metal power lock
Button	20 physical buttons with backlight
Interface	1 RS-485 interface
Vibration	Vibration damping design
Consumption	≤ 2 W
Weight	0.5 kg (1.1 lb)
Dimension(W × D × H)	143 × 135 × 40.4 mm (5.6 × 5.3 × 1.6 inch)

Intelligent Traffic System

Elder Care Radar Sensor

Elder Care Radar Sensor (Auxiliary Care Radar and Fall Detection Radar) can detect real-time breath rate, heart rate of the human body and can obtain target information such as person location, speed posture, etc. By non-video privacy protection and non- contact detection, data can be transmitted to the monitoring center via Wi-Fi. Securing those in deed with responsive contactless care.


- > Non-contact detection
- > Radar Working Frequency 60 to 64GHz
- > On-bed / Out-of-bed detection
- > Respiratory and Heart Rates of human body
- > Body Movement Information
- > Get-up Detection
- > Fall Detection



Auxiliary Care Radar

Model	DS-TDSB00-EKH/2m
Image	
Working Frequency	60 to 64 GHz
Modulation Wave	FMCW
Frequency Span	3.5G Hz
Detection Range	0.1 to 2.7 m
Range Resolution	0.0435 m
Breath/Heart Rate Resolution	0.08 Hz
Data Cycle	200 ms
Communication Interface	RS-485
Working Voltage	9 to 12 VDC
Working Electric Current	≤ 200 mA @ 12 VDC
Working Temperature	-40 °C to 70 °C [-40 °F to 158 °F]
Weight	125 g

Fall Detection Radar

Model	DS-TDSB00-EKT/4m
Image	
Working Frequency	60 to 64 GHz
Modulation Wave	FMCW
Frequency Span	2 GHz
Detection Range	4 m
Data Cycle	70 ms
Communication Interface	RS-485
Working Voltage	9 to 12 VDC
Working Electric Current	≤ 200 mA @ 12 VDC
Working Temperature	-40 °C to 70 °C [-40 °F to 158 °F]
Weight	125 g



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. Safety and security are enhanced in large parking garages. In parking guidance camera system, 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.

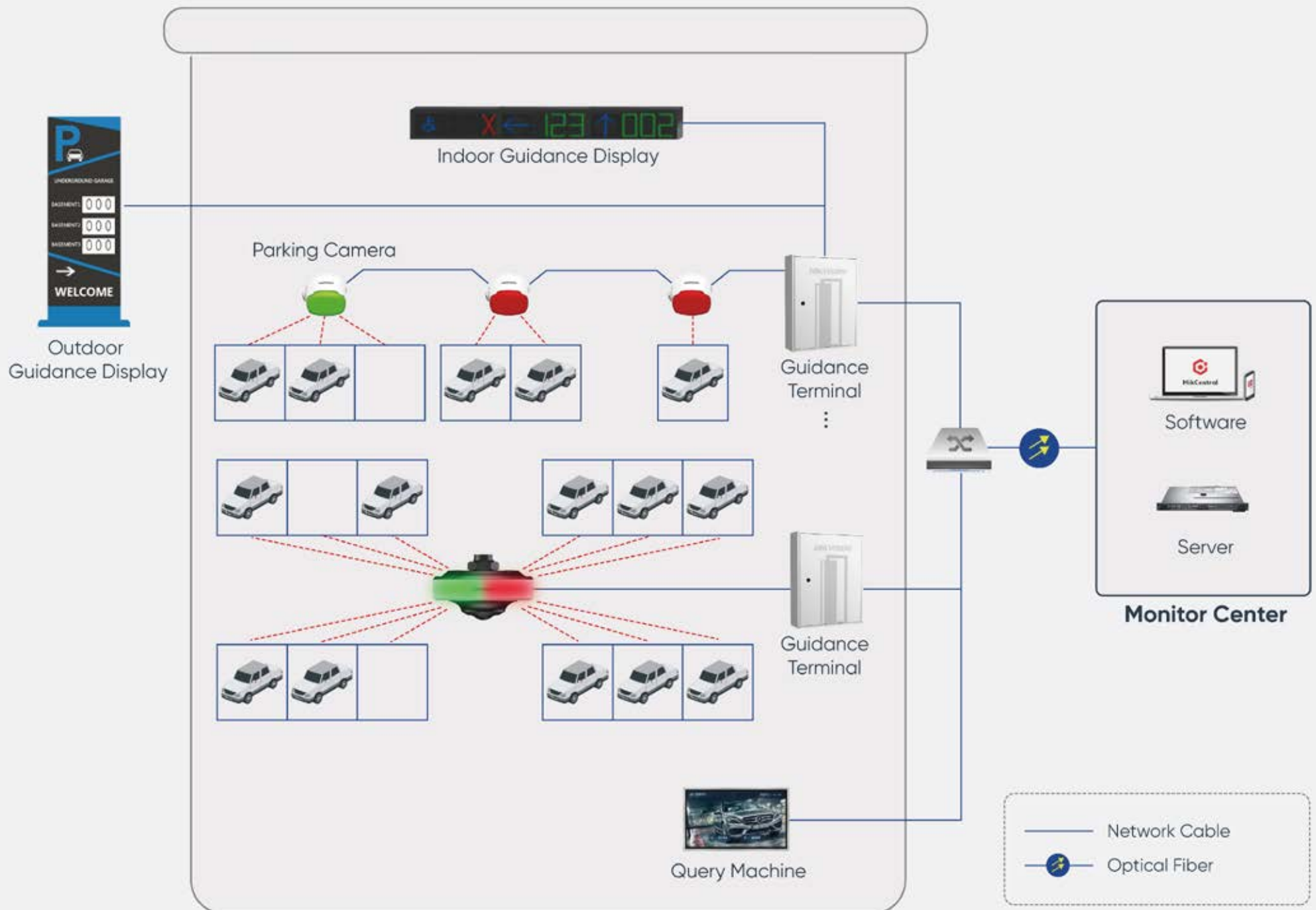
- The indicator light inside the parking guidance camera has seven configurable colors, allowing for dynamic indication of the purpose of the parking bay
- Up to 24-TB edge storage for video and images
- Video, images and data can be stored locally offline if disconnected from central management software, 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
- Hand-by-hand cascaded connection for both power and network




Parking Guidance Camera System



- Embedded parking spaces detection & ANPR with AI

Parking Fisheye Camera System


- Embedded parking spaces detection with AI




Model	DS-TCP140-B(E)	DS-TCP440-B(E)	DS-TCP440-DB(E)
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
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)
Shutter	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
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°
Video Compression	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
Max. Resolution	1280 × 1024	2560 × 1440	2560 × 1440 × 2
Frame Rate	30 fps (1280 × 1024)	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.
Backlight Compensation	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
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)
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
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
iBeacon	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)
Working Humidity	< 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
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)
Weight	500 g (1.1 lb)	500 g (1.1 lb)	500 g (1.1 lb)

Model	DS-TCP506-EP	DS-TCPC06-EP
Image		
Indicator LED	In integrated mode, red, green, yellow, blue, cyan and magenta colors can be indicated	
Sensor	1/2.7" CMOS	1/1.7" CMOS
Min. Illumination	Color: 0.04 Lux @ (F2.2, AGC ON) B/W: 0.02 Lux @ (F2.2, AGC ON)	Color: 0.06 Lux @ (F2.2, AGC ON) B/W: 0.04 Lux @ (F2.2, AGC ON)
Shutter	1/30 s to 1/100,000 s	1/30 s to 1/100,000 s
Lens	1.16 mm	1.29 mm
Video Compression	H.264/H.265/MJPEG	H.264/H.265/MJPEG
Output Bit Rate	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps
Max. Resolution	2688 × 1944	4000 × 3000
Fisheye Resolution	50 Hz: 17 fps (4000 × 3000), 60 Hz: 15 fps (4000 × 3000)	50 Hz: 25 fps (2688 × 1944), 60 Hz: 30 fps (2688 × 1944)
Calibration Resolution	Dual-channel: 50 Hz: 8.5 fps (3840 × 1440), 60 Hz: 7.5 fps (3840 × 1440); 4-channel: 50 Hz: 8.5 fps (1920 × 1440), 60 Hz: 7.5 fps (1920 × 1440); 1-channel (with 2 windows): 50 Hz: 8.5 fps (3840 × 2880), 60 Hz: 7.5 fps (3840 × 2880); 1-channel (with 4 windows): 50 Hz: 8.5 fps (3840 × 2880), 60 Hz: 7.5 fps (3840 × 2880); Main Stream (configurable): 1280 × 1024, 1280 × 720, 704 × 576	Dual-channel: 50 Hz: 12.5 fps (2688 × 832), 60 Hz: 15 fps (2688 × 832); 4-channel: 50 Hz: 12.5 fps (1344 × 832), 60 Hz: 15 fps (1344 × 832); 1-channel (with 2 windows): 50 Hz: 12.5 fps (2688 × 1664), 60 Hz: 15 fps (2688 × 1664); 1-channel (with 4 windows): 50 Hz: 12.5 fps (2688 × 1664), 60 Hz: 15 fps (2688 × 1664); Main Stream: 1920 × 1080
Sub-Stream	1920 × 1080, 704 × 576, 352 × 288	1920 × 1080, 640 × 480
Installation Mode	Ceiling mount	Ceiling mount
Image Settings	Saturation, brightness, contrast, white balance, AGC, and 3D noise reduction can be adjusted via the web browser.	Saturation, brightness, contrast, white balance, AGC, and 3D noise reduction can be adjusted via the web browser.
Protocols	Open Network Video Interface Forum, RTSP, ISAPI	Open Network Video Interface Forum, RTSP, ISAPI
Security	Heartbeat, password protection, and NTP time sync.	Heartbeat, password protection, and NTP time sync.
Parking Space Detection Mode	Up to 16 parking spaces status detection in dual-channel mode.	Up to 12 parking spaces status detection in dual-channel mode.
Communication Interface	1 × audio input and output port(s), 1 × 10/100M Ethernet port(s), 1 × relay output, 2 × alarm output, 1 × RS485	1 × audio input and output port(s), 1 × 10/100M Ethernet port(s), 1 × relay output, 2 × alarm output, 1 × RS485
Working Temperature	-20 °C to 60 °C (-4 °F to 140 °F)	-20 °C to 60 °C (-4 °F to 140 °F)
Power Supply	12 VDC/PoE	12 VDC/PoE
Working Consumption	5 W	5 W
Weight	150 g (0.33 lb.)	150 g (0.33 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
Dimensions	Dimension: 410 mm (Width) × 130mm (Depth) × 540 mm (Height)
Working Environment	Working Temperature -10 °C-50 °C, Working Humidity 10 %-90 %

Inquiry Machine

Model	DS-TPW332-C
Image	
Resolution	1920 × 1080
Screen Size	31.5 inch
Display Size (H × V)	698.4 mm × 392.85 mm (27.5" × 15.5")
Brightness	300 cd/m2
Contrast	1000:1
Field of View	89°/89°/89°/89° (L/R/U/D)
Response Time	8 ms
Color Depth	16.7 M
Touchscreen	IR touch
Touch Point	10
Touch Resolution	32768 × 32768
Working Consumption	≤85 W
Power Supply	100 to 240 VAC, 50/60 Hz
Product Dimension (H × V × D)	764.46 mm × 459.06 mm × 59.8 mm (30.1" × 18.1" × 2.4") (without wall-mounted frame)
Screen Surface	Tempered glass
Housing Material	Aluminum alloy brushed surface frame, hardware back case
Interface	1 × RJ45, 1 × Power, 2 × USB, 1 × TF Card, 1 × AUDIO IN, 1 × AUDIO OUT, 2 × speaker (5w)
CPU	Cortex-A17, 4 core, 1.8 GHz
Memory	2 G
Capacity	8 G
Version	Android 7
Installation Mode	Vertically or horizontally wall-mounted. Optional K-shape base.

LED Display

Model	DS-TVL121-3-5D	DS-TVL121-6-5D	DS-TVL121-9-5D	DS-TVL121-3-5/H	DS-TVL221-3-5/H
Image					
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. 14 W	Max. 28 W	Max. 50 W	Max.14	Max.12
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	550 ×255 × 65 mm
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, RS232
Pixel Composition of Module	1R1G Dual-color
Module Size	320 X 160 mm
Power Supply	220 VAC/110 VAC
Weight	75 kg
Dimension	700 × 3000 × 150 mm (27.6 × 118.1 × 5.9 inch)

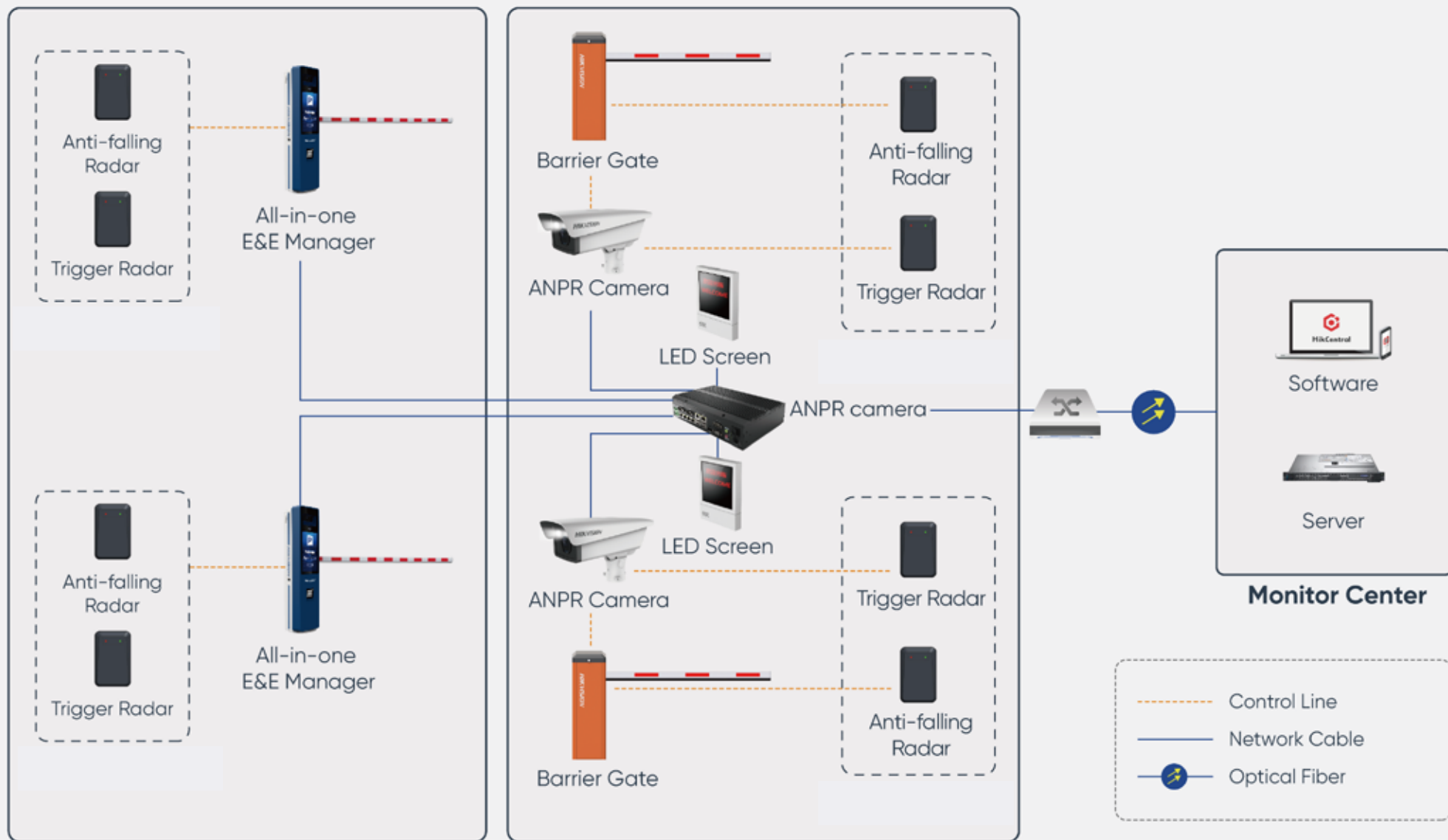


Intelligent Traffic System

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-TC6405-E	DS-TMC403-E
Image	 Deep Learning	
Image Sensor	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.022 Lux@ (F1.2, AGC ON) B/W: 0.011 Lux@ (F1.2, AGC ON)	Color: 0.022 Lux@ (F1.2, AGC ON) B/W: 0.011 Lux@ (F1.2, AGC ON)
Shutter Speed	1/30 s - 1/100,000 s	1/30 s - 1/100,000 s
Lens	3.1 mm to 6mm	3.1 mm to 6 mm
Auto Iris	DC drive	DC drive
IR Cut Filter	Supproted	Supproted
Video Compression	H.265, H.264, MHPEG	H.265, H.264, MHPEG
Video Bit Rate	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps
Max. Resolution	2688 × 1520	2688 × 1520
Frame Rate	25 fps (P)/30 fps (N)	25 fps (P)/30 fps (N)
Image Setting	saturation, brightness, contrast, white balance, gain and 3D DNR are adjustable by software	saturation, brightness, contrast, white balance, gain and 3D DNR are adjustable by software
Picture Format	JPEG with configurable quality	JPEG with configurable quality
Smart Recognition	ANPR Vehicle type, color, brand recognition	ANPR Vehicle type, color, brand recognition
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, FTP Upload Pictures	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, FTP Upload Pictures
Security	User Authentication, Heartbeat, NTP	User Authentication, Heartbeat, NTP
Communication	1 RJ45 10 M/100 M Ethernet port	1 RJ45 10 M/100 M/1000 M Ethernet port
Built-in LED light	2 built-in LED lights (White/IR switched)	9
Audio	1-ch audio output	1-ch audio output
Memory Card Slot	1 TF card slot, up to 128 GB	1 TF card slot, up to 128 GB
Operating Conditions	Linux	Linux
Working Temperature	-25 °C to +70 °C (-13 °F to +158 °F)	-25 °C to +70 °C (-13 °F to +158 °F)
Working Humidity	90% or less (non-condensing)	90% or less (non-condensing)
Power Supply	100 to 240 VAC/12 V PoE	220 VAC
IP	IP67, IK10	IP67, IK10
Power Consumption	22 W MAX	35 W





Entrance & Exit Controller



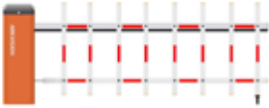



Model	DS-TME40X-TPC
Image	
Model Distinguish	DS-TME401-TPC: Entrance controller (Ticket) DS-TME402-TPC: Exit controller (Ticket)
Operation System	Embedded Linux operating system
Operation Interface	WEB
Indicator	24 V power supply indicator, 12 V power supply indicator, mainboard alarm indicator, HDD 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
Network Interface	1, 100 M Ethernet interface
Memory Card	N/A
Thermal Paper	Width: 58 mm, thickness o 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 %



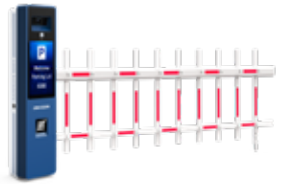
Entrance & Exit Radar

Model	DS-TM6035(Capture-trigger)	DS-TM6035(Anti-fall)
Image	 NEW	 NEW
Transmitting Frequency (GHz)	79	79
Transmitting Power (mW)	≤ 10	≤ 10
Beam Width	Vertical 36°, Horizontal 18°	Vertical 18°, Horizontal 36°
Response Time (ms)	50	50
Trigger Distance (m)	6 (Programmable)	6 (Programmable)
Detection Area (m)	Horizontal width: 2	Horizontal width: 2
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)	< 0.25	< 0.25
Consumption (W)	< 3	< 3
Working Temperature	-40 °C to +85 °C (-40 °F to +185 °F)	-40 °C to +85 °C (-40 °F to +185 °F)
Dimensions (L × W × H)	90 × 60 × 29 mm (3.5 × 2.4 × 1.1 inch)	90 × 60 × 29 mm (3.5 × 2.4 × 1.1 inch)

Entrance & Exit Barrier Gate

Model	DS-TM64B0	DS-TM64B1	DS-TM64B0 (Round bar)	DS-TM6520
Image			 NEW	 HOT
Material	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	SECC
Boom Pole Height	890 mm	890 mm	890 mm	880 mm
Material Thickness	1.5 mm	1.5 mm	1.5 mm	2.0 mm
Metal Door Thickness	1.2 mm	1.2 mm	1.2 mm	1.5 mm
Color	Black background and silver pattern	Black background and silver pattern	Black background and silver pattern	Orange
Surface Protection	Stoving varnish	Stoving varnish	Stoving varnish	Outdoor powder spraying
Induction	Supported	Supported	Supported	Supported
IR	Supported	Supported	Supported	Supported
Indicator	/	/	/	/
Controller	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]
Ingress Protection	IP54	IP54	IP54	IP54
Remote Control Frequency	430.5 MHz	430.5 MHz	430.5 MHz	433 MHz
Design Life	2,500,000	2,500,000	2,500,000	5,000,000
Weight	41 kg [90.4 lb.]	41 kg [90.4 lb.]	41 kg [90.4 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)	380 × 325 × 1,085 mm (15.0 × 12.8 × 42.7 inch)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)
Power Supply	220 VAC ± 15 %	220 VAC ± 15 %	220 VAC ± 15%	230 VAC
Consumption	60 W	60 W	60 W	300 W
Rising Speed	3 m: 3 s 4 m: 3 s 6 m: 6 s	3 s	4 m: 3 s 6 m: 6 s	2 m: 0.6 s 3 m: 0.9 s 4 m: 1.5 s
Falling Speed	3 m: 3 s 4 m: 3 s 6 m: 6 s	3 s	4 m: 3 s 6 m: 6 s	2 m: 2 s 3 m: 3 s 4 m: 3.5 s
Max. Boom Pole Length	3/4/6 m	4[2+2] m	4/6 m	3/4/6 m
Type	Straight boom pole	Curved boom pole	Round boom pole	Straight boom pole
Electric Current	1 A	1 A	1 A	1.5 A



Model	DS-TM6521	DS-TM6523	DS-TM6520/B
Image	 	 	 
Material	SECC	SECC	SECC
Boom Pole Height	880 mm	880 mm	880 mm
Material Thickness	2.0 mm	2.0 mm	2.0 mm
Metal Door Thickness	1.5 mm	1.5 mm	1.5 mm
Color	Orange	Orange	Orange
Surface Protection	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying
Induction	Supported	Supported	Supported
IR	Supported	Supported	Supported
Indicator	-	-	Arrow Indicator/ Top Indicator/ Light Band
Controller	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]
Ingress Protection	IP54	IP54	IP54
Remote Control Frequency	433 MHz	433 MHz	433 MHz
Design Life	5,000,000	5,000,000	5,000,000
Weight	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	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	230 VAC	230 VAC	230 VAC
Consumption	300 W	300 W	300 W
Rising Speed	1.5 s	3 s	2 m: 0.6 s 3 m: 0.9 s 4 m: 1.5 s
Falling Speed	3.5 s	6 s	2 m: 2 s 3 m: 3 s 4 m: 3.5 s
Max. Boom Pole Length	4(2+2) m	4 m	3/4/6 m
Type	Curved boom pole	Fence boom pole	Straight boom pole
Electric Current	1.5 A	1.5 A	1.5 A

Model	DS-TMC407-EHL/R	DS-TMC407-EHL/R	DS-TMC407-EHL/R
Image			
Image Sensor	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS
Resolution	2688 × 1520	2688 × 1520	2688 × 1520
Min.Illumination	Color: 0.022 Lux @ (F2.0, AGC ON) B/W: 0.011 Lux @ (F2.0, AGC ON)	Color: 0.022 Lux @ (F2.0, AGC ON) B/W: 0.011 Lux @ (F2.0, AGC ON)	Color: 0.022 Lux @ (F2.0, AGC ON) B/W: 0.011 Lux @ (F2.0, AGC ON)
Shutter Speed	1/30 s - 1/100,000 s	1/30 s - 1/100,000 s	1/30 s - 1/100,000 s
Lens	Vari-focal lens, motor-driven lens	Vari-focal lens, motor-driven lens	Vari-focal lens, motor-driven lens
Focal Length	3.1 to 6 mm	3.1 to 6 mm	3.1 to 6 mm
Frame Rate	25 FPS	25 FPS	25 FPS
Image Setting	Saturation, brightness, contrast, white balance, AGC, and 3D noise reduction can be adjusted via the web browser	Saturation, brightness, contrast, white balance, AGC, and 3D noise reduction can be adjusted via the web browser	Saturation, brightness, contrast, white balance, AGC, and 3D noise reduction can be adjusted via the web browser
Picture Format	JPEG with configurable quality	JPEG with configurable quality	JPEG with configurable quality
Smart Recognition	ANPR, vehicle type recognition, vehicle logo recognition, sub-brand recognition	ANPR, vehicle type recognition, vehicle logo recognition, sub-brand recognition	ANPR, vehicle type recognition, vehicle logo recognition, sub-brand recognition
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, FTP picture upload	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, FTP picture upload	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, FTP picture upload
Network Security	Heartbeat, password protection, NTP	Heartbeat, password protection, NTP	Heartbeat, password protection, NTP
Communication Interface	2 RJ45 10 M/100 M self-adaptive Ethernet interfaces	2 RJ45 10 M/100 M self-adaptive Ethernet interfaces	2 RJ45 10 M/100 M self-adaptive Ethernet interfaces
Built-in LED light	9 built-in LED lights (White/IR switched)	9 built-in LED lights (White/IR switched)	9 built-in LED lights (White/IR switched)
LCD Dimension	21.5 inch	21.5 inch	21.5 inch
LCD Resolution	1080 p	1080 p	1080 p
LCD Brightness	1500 cd/m²	1500 cd/m²	1500 cd/m²
Speaker & Pickup	Built-in speaker and pickup, with emergency call button	Built-in speaker and pickup, with emergency call button	Built-in speaker and pickup, with emergency call button
Barrier Gate Type	Straight boom pole	Curved boom pole	Fence boom pole
Material	SECC	SECC	SECC
Boom Pole Height	880 mm	880 mm	880 mm
Color	Blue	Blue	Blue
Surface Protection	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying
Induction	Supported	Supported	Supported
Controller	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop
Working Temperature	-30 °C to +70 °C (-22 °F to +160 °F)	-30 °C to +70 °C (-22 °F to +160 °F)	-30 °C to +70 °C (-22 °F to +160 °F)
Ingress Protection	IP54	IP54	IP54
Remote Control Frequency	435 MHz	435 MHz	435 MHz
Design Life	5,000,000	5,000,000	5,000,000
Weight	95 kg (209.4 lb.)	95 kg (209.4 lb.)	95 kg (209.4 lb.)
Power Supply	220 VAC	220 VAC	220 VAC
Consumption	350 W	350 W	350 W
Rising Speed	0.9 s	1.2 s	2.5 s
Falling Speed	4 s	4 s	6 s
Max. Boom Pole Length	3/4 m	2+2 m	3/4 m


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 Alarm Input 4-ch Alarm Output 1-ch VGA output Interface, 1-ch HDMI Interface 1-ch Audio Input Interface 1-ch Audio Output Interface 2-ch RS-232 Interfaces 2-ch 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, supporting network isolation	4-ch Alarm Input 4-ch Alarm Output 1-ch VGA output Interface, 1-ch HDMI Interface 1-ch Audio Input Interface 1-ch Audio Output Interface 2-ch RS-232 Interfaces 2-ch 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, supporting 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-TV1224-4-5Y
Image	
Working Voltage	220 VAC±10%, 50 Hz 110 VAC±10%, 60 Hz
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	4010W
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)

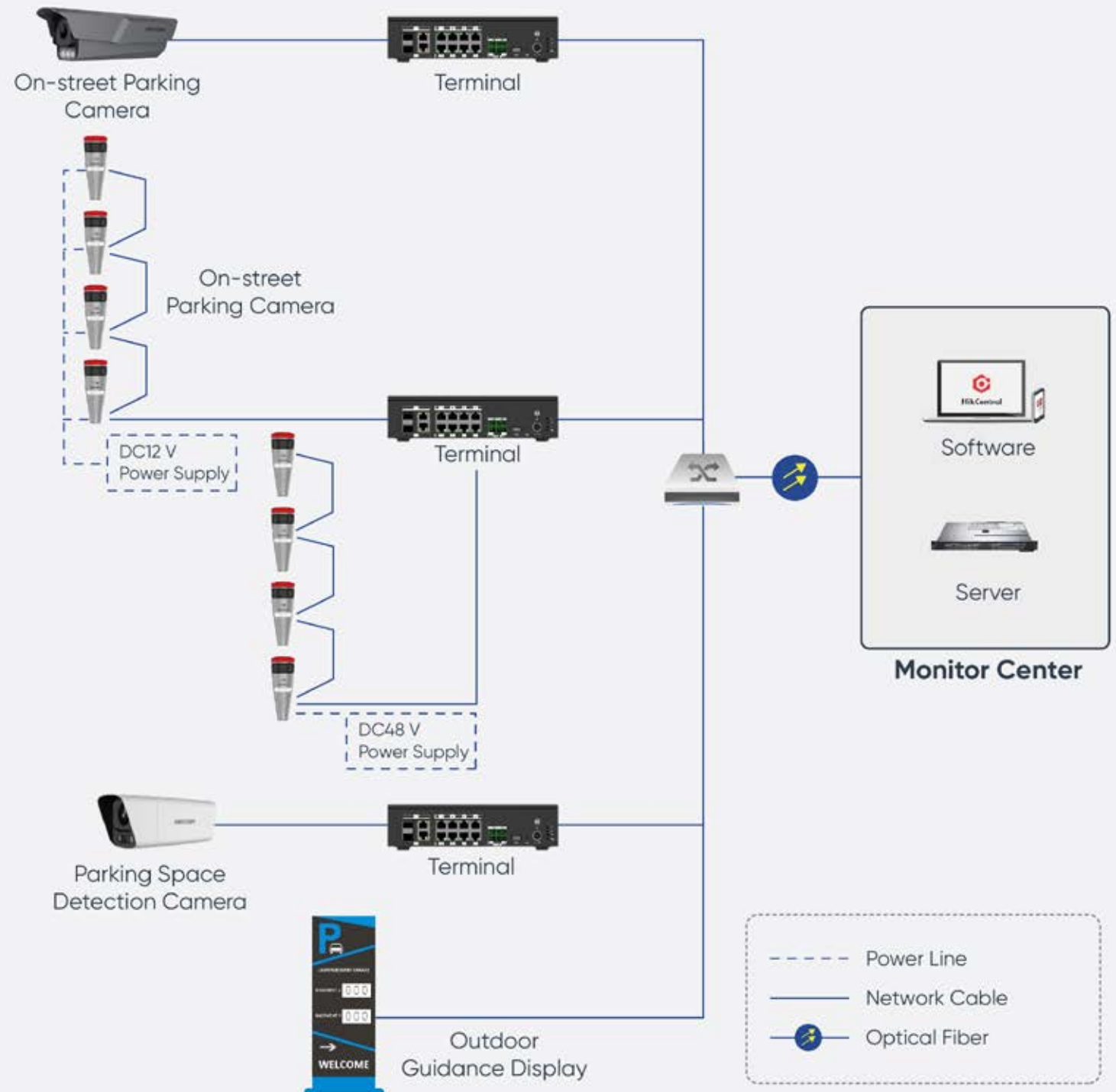


Intelligent Traffic System




On-Street Parking Management System

The On-Street 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, they enable intelligent event detection and data collection, which are widely used in urban roadside and outside parking space detection.


- Intelligent 8/4/2MP on-street COMS camera
- Captures and recognizes parking vehicles via ANPR
- Supports maximum 128GB TF card
- Supports Automatic Network Replenishment (ANR)
- Supports parking spaces status detection



Roadside Parking System

Model	IDS-TCR803-B	DS-TCL400-E	IDS-TCR204-E
Image			
Image Sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.009 Lux @ (F1.4, AGC ON) B/W: 0.0001 Lux @ (F1.4, AGC ON)	Color: 0.0004351 lux (F2.0, AGC ON) B/W: 0.000022 lux (F2.0, AGC ON)	Color: 0.019 lux (F2.0, AGC ON) B/W: 0.011 lux (F2.0, AGC ON)
Shutter Speed	1 s to 1/100000 s	1/30 s to 1/100000 s	1/30 s to 1/100000 s
Lens	Vari-focal lens, motor-driven lens	Fixed lens	Vari-focal lens, motor-driven lens
Focal Length	11 to 55 mm / 04 to 11 mm	2.8 mm	3.1 to 6 mm
Day/Night Switch	ICR	ICR	Not Support
Video Compression	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Video Bit Rate	32 Kbps ~ 16 Mbps	32 Kbps ~ 16 Mbps	32 Kbps ~ 16 Mbps
Max. Resolution	3840 × 2160	2688 × 1520	1920 × 1200
Frame Rate	25 fps	25 fps	25 fps
Picture Format	JPEG	JPEG	JPEG
Supplement Light	3 LED Supplement Lights, 850 nm, angle: 40°	1 LED Supplement Light, 850 nm, angle: 40°	1 LED Supplement Light, 850 nm, angle: 40°
Smart Recognition	License plate recognition, vehicle entering/exiting parking space status, parking space status detection, parking over spaces detection, parking over line detection	License plate recognition, vehicle entering/exiting parking space status, parking space status detection, parking over spaces detection, parking over line detection	License plate recognition, vehicle entering/exiting parking space status, parking space status detection, parking over spaces detection, parking over line detection
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SNMP	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP
Communication	1 RJ45 10 M / 100 M / 1000 M Ethernet interface, 1 RS-485 interface	2 RJ45 10 M / 100 M / 1000 M Ethernet interface, 1 power interface	1 RJ45 10 M / 100 M / 1000 M Ethernet interface, 1 RS-485 interface, 1 RS-232 interface
Memory Card Slot	Support TF card	Support TF card	Support TF card
Working Temperature	-30 °C to 70 °C	-20 °C to 60 °C	-20 °C to 70 °C
Working Humidity	5 % to 95 % @ 40 °C (non-condensing)	90 % or less (non-condensing)	90 % or less (non-condensing)
Power Supply	12 VDC ~ 24 VDC	12 VDC ~ 24 VDC	10 VDC ~ 14 VDC
IP	IP67	IP67	IP67
Dimension	298.4 × 115.5 × 110.8 mm (11.7 × 4.5 × 4.4 inch)	1039.6 × 114.6 mm (36.1 × 4.5 inch)	237.77 × 80 × 80 mm (9.36 × 3.15 × 3.15 inch)
Weight	2 ± 0.5 kg (4.4 ± 1.1 lb)	500 g (1.1 lb)	725 g (1.6 lb)
Power Consumption	<15 W	<10 W	< 5.4 W

Terminal

Model	DS-TPE400-E
Image	
Operating System	Embedded Linux Operating System
Operating Interface	WEB
Hard Disk Storage	1 3.5" SATAHDD, 2 TB, support up to 6 TB
Indicators	Power/Alarm/HDD/Operation
Network Interface	4 100M Ethernet Interfaces, 2 10/100/1000 M self-adaptive Ethernet Interfaces, 2 1000M SFP Optical Interfaces
Audio Output	1 Audio Output
Alarm Input	1 Switching Value Alarm Input
Alarm Output	1 Switching Value Alarm Output
RS232 Interface	2 RS232
RS485 Interface	1 RS485
USB Interface	1 USB2.0
Data Storage	Support vehicle information (Record and Picture) storage
Video Recording	Support video recording
Data Upload	Support data ANR and manual.
Power Supply	12 VDC/5 A Adapter
Power	20 W
Dimension	245 mm (Width) × 175 mm (Depth) × 60 mm (Height)
Weight	2.0 kg (Included 1 HDD)
Working Environment	Working Temperature -30 °C ~ 70 °C, Working Humidity 10 % ~ 90 %



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