



PRODUCT QUICK GUIDE
**E&E AND PARKING
GUIDANCE SYSTEM**

January-June 2023

HIKVISION®

E&E and Parking Guidance System

- 003** Entrance & Exit Management System
- 012** Video Parking Guidance System
- 017** On-Street Parking Management System



E&E and Parking Guidance System

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.



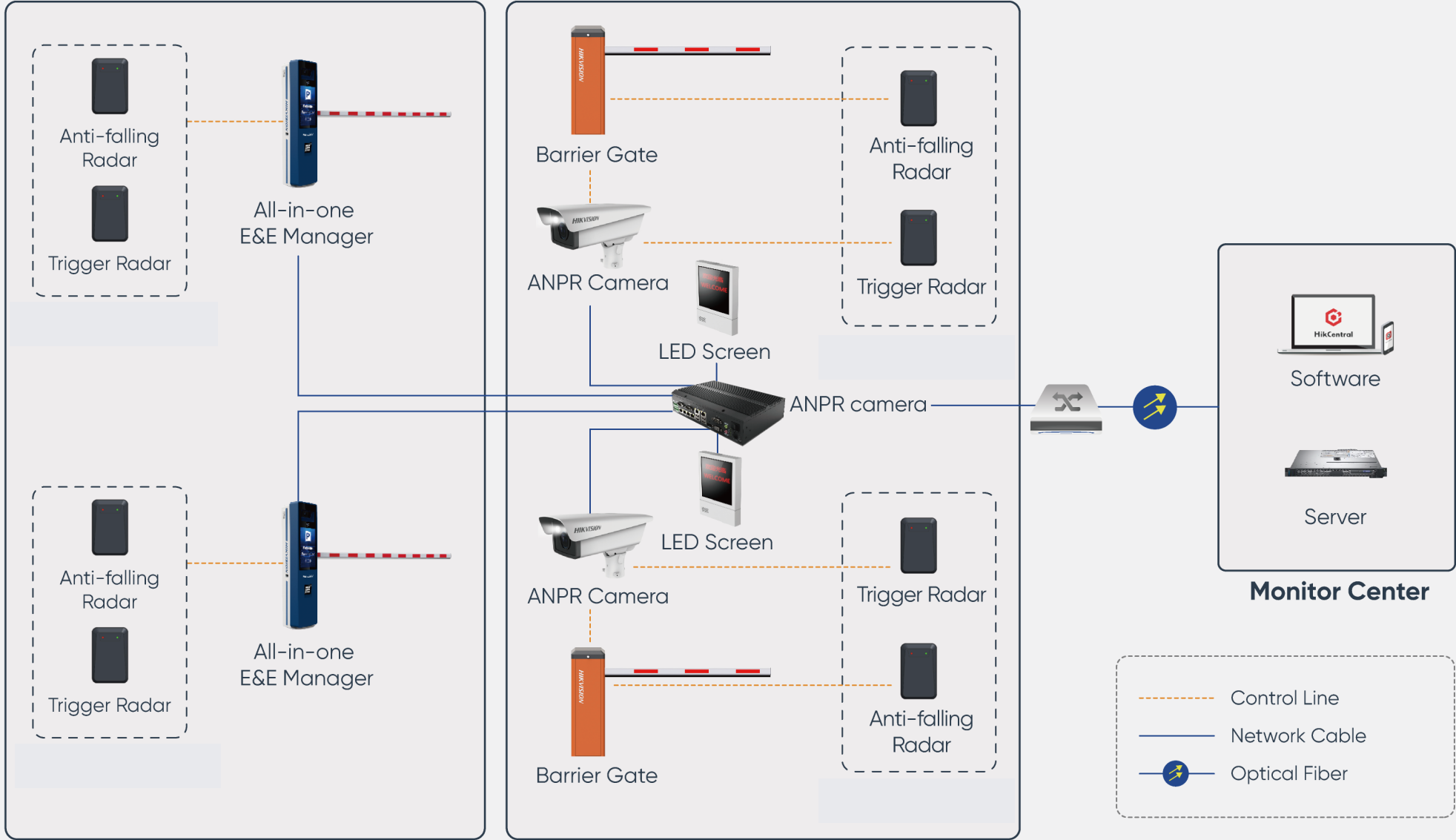


E&E and Parking Guidance System



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-TCG405-E	DS-TCG406-E	DS-TMC403-E
Image	 Deep Learning	 Deep Learning	
Image Sensor	1/3" Progressive Scan CMOS	1/1.8" 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: 0.0005 Lux @ (F1.2, AGC ON) B/W: 0.0001 Lux @ (F1.2, AGC ON) 0 Lux with IR	Color: 0.022 Lux@ (F1.2, AGC ON) B/W: 0.011 Lux@ (F1.2, AGC ON)
Shutter Speed	1/30 s to 1/100,000 s	1/30 s to 1/100,000 s	1/30 s to 1/100,000 s
Lens	3.1 mm to 6mm	2.8 mm to 12 mm / 8 mm to 32 mm	3.1 mm to 6 mm
Auto Iris	DC drive	DC drive	DC drive
IR Cut Filter	Supported	Supported	Supported
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Video Bit Rate	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps
Max. Resolution	2688 × 1520	2688 × 1520	2688 × 1520
Frame Rate	25 fps (P)/30 fps (N)	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	saturation, brightness, contrast, white balance, gain and 3D DNR are adjustable by software
Picture Format	JPEG with configurable quality	JPEG with configurable quality	JPEG with configurable quality
Smart Recognition	ANPR Vehicle type, color, brand 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	TCP/IP, HTTP, DHCP, DNS, RTP, RTSP, NTP, FTP Upload Pictures
Security	User Authentication, Heartbeat, NTP	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	1 RJ45 10 M/100 M/1000 M Ethernet port
Built-in LED light	2 built-in LED lights (White/IR switched)	2 built-in LED lights (White/IR switched)	0
Audio	1-ch audio output	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 512 GB	NA
Operating Conditions	Linux	Linux	Linux
Working Temperature	-25 °C to +70 °C (-13 °F to +158 °F)	-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)	90% or less (non-condensing)
Power Supply	100 to 240 VAC/12 V PoE	100 to 240 VAC/12 V PoE	220 VAC
IP	IP67, IK10	IP67, IK10	IP67, IK10
Power Consumption	22 W MAX	22 W MAX	35 W




Entrance & Exit Controller

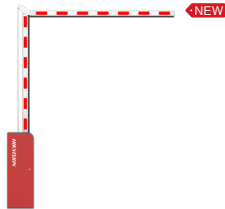


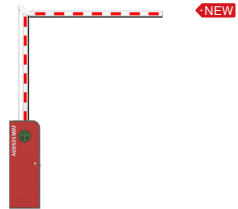
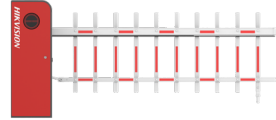
Model	DS-TMT201	DS-TMT202
Image	 NEW	 NEW
Application	Entrance	Exit
Operation System	Embedded Linux operating system	Embedded Linux operating system
Operation Interface	WEB	WEB
Indicator	12 V power supply indicator	12 V power supply indicator
Audio Input	1-ch	1-ch
Audio Output	1-ch	1-ch
Alarm Input	3-ch	3-ch
Alarm Output	3-ch	3-ch
Barrier Interface	1-ch	1-ch
Card Reader Interface	1-ch	1-ch
Vehicle Detector Interface	1-ch	1-ch
RS-232 Interface	2-ch	2-ch
RS-485 Interface	1-ch	1-ch
USB Interface	1-ch	1-ch
Network Interface	1-ch, 1000 M	1-ch, 1000 M
Thermal Paper	Width: 58 mm, thickness of a roll of paper: ≤ 150 mm	Width: 58 mm, thickness of a roll of paper: ≤ 150 mm
Number of Ticket	Approx. 1000 (related to the thickness of ticket paper)	Approx. 1000 (related to the thickness of ticket paper)
Display	10.1 inch LCD, 1024 x 600	10.1 inch LCD, 1024 x 600
Display Dimension (W × H)	222.72 × 125.28 mm (8.8 × 4.9 inch)	222.72 × 125.28 mm (8.8 × 4.9 inch)
Power Supply	100 to 240 VAC	100 to 240 VAC
Consumption	50 W	50 W
Device Dimension	1236 × 230 × 248 mm (48.7 × 9.1 × 9.8 inch)	1236 × 230 × 237.5 mm (48.7 × 9.1 × 9.4 inch)
Working Temperature	-25 °C to +75 °C (-13 °F to +167 °F)	-25 °C to +75 °C (-13 °F to +167 °F)
Working Humidity	10% to 90%	10% to 90%

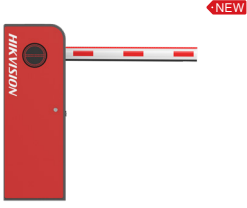
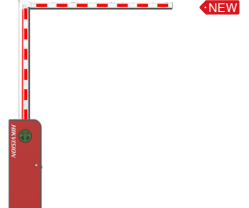
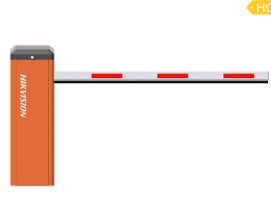

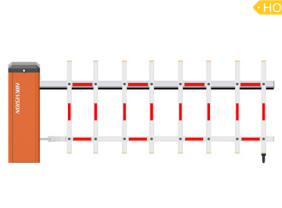
Entrance & Exit Radar

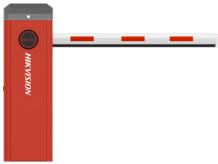
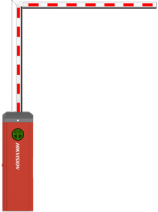
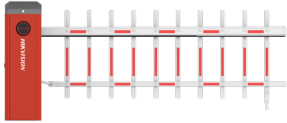
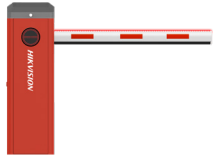
Model	DS-TM6035(Capture-trigger)	DS-TM6035(Anti-fall)
Image	 HOT	 HOT
Transmitting Frequency (GHz)	79 / 60	79 / 60
Transmitting Power (mW)	≤ 10	≤ 10
Beam Width	Vertical 36°, Horizontal 18°	Vertical 18°, Horizontal 36°
Response Time (ms)	50	50
Trigger Distance (m)	6 (Programmable)	6 (Programmable)
Detection 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]
Weight	<350 g (0.80 lb)	<350 g (0.80 lb)




Entrance & Exit Barrier Gate

Model	DS-TM64B0	DS-TM64B1	DS-TM6420
Image			 NEW
Material	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)
Boom Pole Height	890 mm	890 mm	880 mm
Material Thickness	1.5 mm	1.5 mm	2.0 mm
Metal Door Thickness	1.2 mm	1.2 mm	1.5 mm
Color	Black background and silver pattern	Black background and silver pattern	Orange
Surface Protection	Stoving varnish	Stoving varnish	Outdoor powder spraying
Induction	Supported	Supported	Supported
IR	Supported	Supported	Supported
Indicator	/	/	/
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	430.5 MHz	430.5 MHz	433 MHz
Design Life	2,500,000	2,500,000	2,500,000
Weight	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)	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)
Power Supply	220 VAC ± 15 %	220 VAC ± 15 %	220 VAC ± 10%
Consumption	60 W	60 W	250 W
Rising Speed	3 m: 3 s 4 m: 3 s 6 m: 6 s	3 s	2 m: 0.6 s 3 m: 0.9 s 4 m: 1.5 s
Falling Speed	3 m: 3 s 4 m: 3 s 6 m: 6 s	3 s	2 m: 2 s 3 m: 3 s 4 m: 3.5 s
Max. Boom Pole Length	3/4/6 m	4(2+2) m	3/4/6 m
Type	Straight boom pole	Curved boom pole	Straight boom pole
Electric Current	1 A	1 A	1.5 A

Model	DS-TM6420	DS-TM6423	DS-TM6420/B	DS-TM6421/B	DS-TM6423/B
Image	 NEW	 NEW	 NEW	 NEW	 NEW
Material	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)
Boom Pole Height	880 mm	882 mm	883 mm	884 mm	885 mm
Material Thickness	2.0 mm	2.2 mm	2.3 mm	2.4 mm	2.5 mm
Metal Door Thickness	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm
Color	Orange	Orange	Orange	Orange	Orange
Surface Protection	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying
Induction	Supported	Supported	Supported	Supported	Supported
IR	Supported	Supported	Supported	Supported	Supported
Indicator	/	/	Arrow Indicator	Arrow Indicator	Arrow Indicator
Controller	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop
Working Temperature	-30 °C to +70 °C [-22 °F to +158 °F]	-30 °C to +70 °C [-22 °F to +158 °F]	-30 °C to +70 °C [-22 °F to +158 °F]	-30 °C to +70 °C [-22 °F to +158 °F]	-30 °C to +70 °C [-22 °F to +158 °F]
Ingress Protection	IP54	IP54	IP54	IP54	IP54
Remote Control Frequency	433 MHz	433 MHz	433 MHz	433 MHz	433 MHz
Design Life	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
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.)	60 ± 5 kg (132.3 ± 11.0 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)
Package Dimension	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)
Power Supply	220 VAC ± 10%	220 VAC ± 10%	220 VAC ± 10%	220 VAC ± 10%	220 VAC ± 10%
Consumption	250 W	250 W	250 W	250 W	250 W
Rising Speed	2 m: 0.6 s 3 m: 0.9 s 4 m: 1.5 s	3 s	3 m: 0.9 s 4 m: 1.5 s 6 m: 4 s	1.5 s	3 s
Falling Speed	2 m: 2 s 3 m: 3 s 4 m: 3.5 s	6 s	3 m: 3 s 4 m: 3.5 s 6 m: 6 s	3.5 s	6 s
Max. Boom Pole Length	3/4/6 m	4 m	3/4/6 m	4(2+2) m	4 m
Type	Straight boom pole	Fence boom pole	Straight boom pole	Curved boom pole	Fence boom pole
Electric Current	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A

Model	DS-TM6420/A/B	DS-TM6421/A/B	DS-TM6520	DS-TM6521	DS-TM6523
Image					
Material	CRS (Cold Rolled Steel)	CRS (Cold Rolled Steel)	SECC	SECC	SECC
Boom Pole Height	886 mm	886 mm	880 mm	880 mm	880 mm
Material Thickness	2.6 mm	2.6 mm	2.0 mm	2.0 mm	2.0 mm
Metal Door Thickness	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm
Color	Orange	Orange	Orange	Orange	Orange
Surface Protection	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying
Induction	Supported	Supported	Supported	Supported	Supported
IR	Supported	Supported	Supported	Supported	Supported
Indicator	Arrow Indicator/ Strip Light	Arrow Indicator/ Strip Light	/	/	/
Controller	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop	Rise/Fall/Stop
Working Temperature	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)	-30 °C to +70 °C (-22 °F to +158 °F)
Ingress Protection	IP54	IP54	IP54	IP54	IP54
Remote Control Frequency	433 MHz	433 MHz	433 MHz	433 MHz	433 MHz
Design Life	2,500,000	2,500,000	5,000,000	5,000,000	5,000,000
Weight	60 ± 5 kg (132.3 ± 11.0 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)	60 ± 5 kg (132.3 ± 11.0 lb.)
Package Dimension	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)	1,060 × 370 × 262 mm (41.7 × 14.6 × 10.3 inch)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)
Power Supply	220 VAC ± 10%	220 VAC ± 10%	220 VAC ± 15%	220 VAC ± 15%	220 VAC ± 15%
Consumption	250 W	250 W	300 W	300 W	300 W
Rising Speed	3 m: 0.9 s 4 m: 1.5 s 6 m: 4 s	3 m: 0.9 s 4 m: 1.5 s 6 m: 4 s	3 m: 0.9 s 4 m: 1.5 s 6 m: 4 s	1.5 s	3 s
Falling Speed	3 m: 3 s 4 m: 3.5 s 6 m: 6 s	3 m: 3 s 4 m: 3.5 s 6 m: 6 s	3 m: 3 s 4 m: 3.5 s 6 m: 6 s	3.5 s	6 s
Max. Boom Pole Length	3/4/6 m	3/4/6 m	3/4/6 m	4(2+2) m	4 m
Type	Straight boom pole	Curved boom pole	Straight boom pole	Curved boom pole	Fence boom pole
Electric Current	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A

Model	DS-TM6520/B	DS-TM6521/B	DS-TM6523/B	DS-TM6520/A/B
Image	 ←NEW	 ←NEW	 ←NEW	 ←NEW
Material	SECC	SECC	SECC	SECC
Boom Pole Height	880 mm	880 mm	880 mm	880 mm
Material Thickness	2.0 mm	2.0 mm	2.0 mm	2.0 mm
Metal Door Thickness	1.5 mm	1.5 mm	1.5 mm	1.5 mm
Color	Orange	Orange	Orange	Orange
Surface Protection	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying	Outdoor powder spraying
Induction	Supported	Supported	Supported	Supported
IR	Supported	Supported	Supported	Supported
Indicator	Arrow Indicator	Arrow Indicator	Arrow Indicator	Arrow Indicator/ Strip Light
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	433 MHz	433 MHz	433 MHz	433 MHz
Design Life	5,000,000	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.)	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)	1,243 × 563 × 438 mm (48.9 × 22.2 × 17.2 inch)
Power Supply	220 VAC ± 15%	220 VAC ± 15%	220 VAC ± 15%	220 VAC ± 15%
Consumption	300 W	300 W	300 W	300 W
Rising Speed	3 m: 0.9 s 4 m: 1.5 s 6 m: 4 s	1.5 s	3 s	3 m: 0.9 s 4 m: 1.5 s 6 m: 4 s
Falling Speed	3 m: 3 s 4 m: 3.5 s 6 m: 6 s	3.5 s	6 s	3 m: 3 s 4 m: 3.5 s 6 m: 6 s
Max. Boom Pole Length	3/4/6 m	4(2+2) m	4 m	3/4/6 m
Type	Straight boom pole	Curved boom pole	Fence boom pole	Straight boom pole
Electric Current	1.5 A	1.5 A	1.5 A	1.5 A

Model	DS-TMC407-EHL/R	DS-TMC407-EHL/R	DS-TMC407-EHL/R
Image	 HOT	 HOT	 HOT
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/m ²	1500 cd/m ²	1500 cd/m ²
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, allow & block list management, available parking lots counting and so on
Connection	Number of Cameras: Maximum 4	Number of Cameras: Maximum 4
Memory	Memory: 4 GB	Memory: 4 GB
Storage	HDD: 2 T / 4 T	HDD: 2 T
Working Temperature	-10 °C to +70 °C (14 °F to 158 °F)	-20 °C to +70 °C (-4 °F to 158 °F)

Entrance & Exit LED Display

Model	DS-TVL224-4-5Y
Image	
Working Voltage	220 VAC±10%, 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	4Ω10W
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)



E&E and Parking Guidance 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.

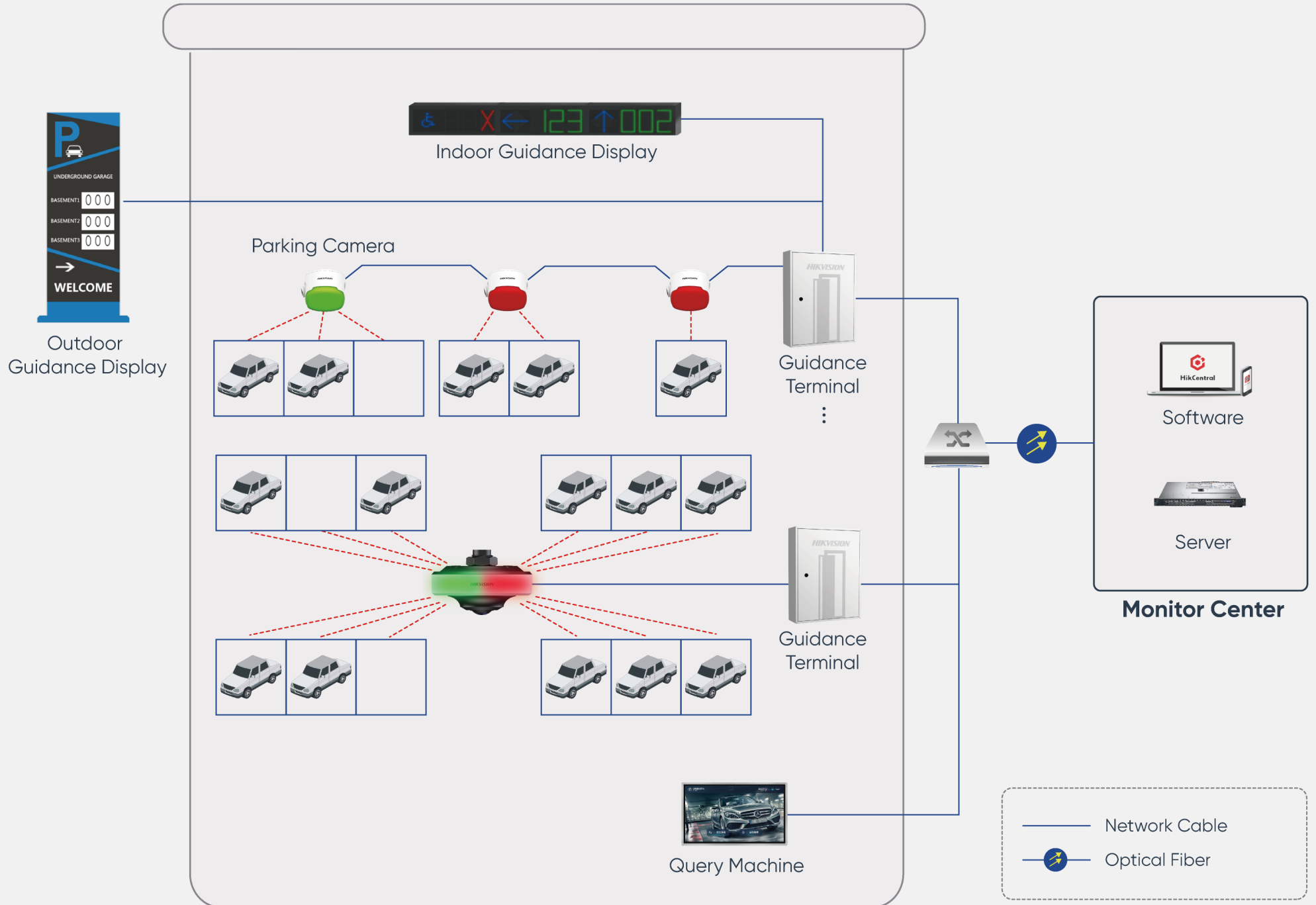
- › The indicator light inside the parking guidance camera has seven configurable colors, allowing for dynamic indication of the purpose of the parking bay
- › Up to 24-TB edge storage for video and images
- › Video, images and data can be stored locally offline if disconnected from central management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






Parking Camera


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 s to 1/100,000 s	1 s to 1/100,000 s	1 s to 1/100,000 s
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.		
Backlight Compensation	Support; Areas can be selected.		
Storage	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		
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		
Working Temperature	-20 °C to +50 °C (-4 °F to 122 °F)		
Working Humidity	< 95 % (no condensation)		
Power Supply	Hikvision PoE, or 12 to 24 VDC wide-range voltage		
Consumption	6.5 W MAX	6.5 W MAX	10 W MAX
Dimensions	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	184 × 120 × 104 mm (7.2 × 4.7 × 4.1 inch)
Weight	500 g (1.1 lb)		

Guidance Terminal






Inquiry Machine

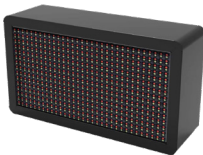
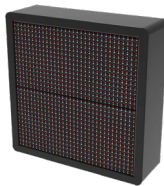
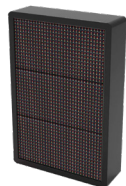
Model	DS-TCP506-EP	DS-TPC06-EP
Image		
Indicator LED	In integrated mode, red, green, yellow, blue, cyan and magenta colors can be indicated	
Sensor	1/2.7" CMOS	1/1.7" CMOS
Min. Illumination	Color: 0.04 Lux @ (F2.2, AGC ON) B/W: 0.02 Lux @ (F2.2, AGC ON)	Color: 0.06 Lux @ (F2.2, AGC ON) B/W: 0.04 Lux @ (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.)


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 %

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 Lot	Indoor Parking Lot	Indoor Parking Lot	Indoor parking lot (module)	Outdoor parking lot (module)
Power Supply	110 VAC - 220 VAC	110 VAC - 220 VAC	110 VAC - 220 VAC	110 VAC - 220 VAC	110 VAC - 220 VAC
Power Consumption	Max. 14W	Max. 28W	Max. 50W	14 W in maximum	12W in maximum
Display Mode	Shift left, Shift up, Upward expanding, Downward expanding	Shift left, Shift up, Upward expanding, Downward expanding	Shift left, Shift up, Upward expanding, Downward expanding	Real-time display	Real-time display
Dimension	584 × 224 × 66 mm	1133 × 224 × 66 mm	1682 × 224 × 66 mm	579 × 298 × 65 mm	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
ICON Display	Arrow, disable, pregnant, etc	Arrow, disable, pregnant, etc	Arrow, disable, pregnant, etc	Arrow, disable, pregnant, etc	/
Color Display	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	3	6	9	3	4

Model	DS-TVL221-4-5H	DS-TVL222-4-5H	DS-TVL223-4-5H
Image			
Application	Outdoor Parking Lot	Outdoor Parking Lot	Outdoor Parking Lot
Power Supply	110 VAC - 220 VAC	110 VAC - 220 VAC	110 VAC - 220 VAC
Power Consumption	30 W	60 W	90 W
Display Mode	Real-time display	Real-time display	Real-time display
Dimension	360 × 180 × 110 mm	360 × 360 × 110 mm	360 × 540 × 110 mm
Display Screen Border	Black aluminium alloy frame	Black aluminium alloy frame	Black aluminium alloy frame
ICON Display	Arrow, disable, pregnant, etc	Arrow, disable, pregnant, etc	Arrow, disable, pregnant, etc
Color Display	Red/Green/Yellow	Red/Green/Yellow	Red/Green/Yellow
Communication Mode	RS485/RJ45	RS485/RJ45	RS485/RJ45
Number Display	4	8	12

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)

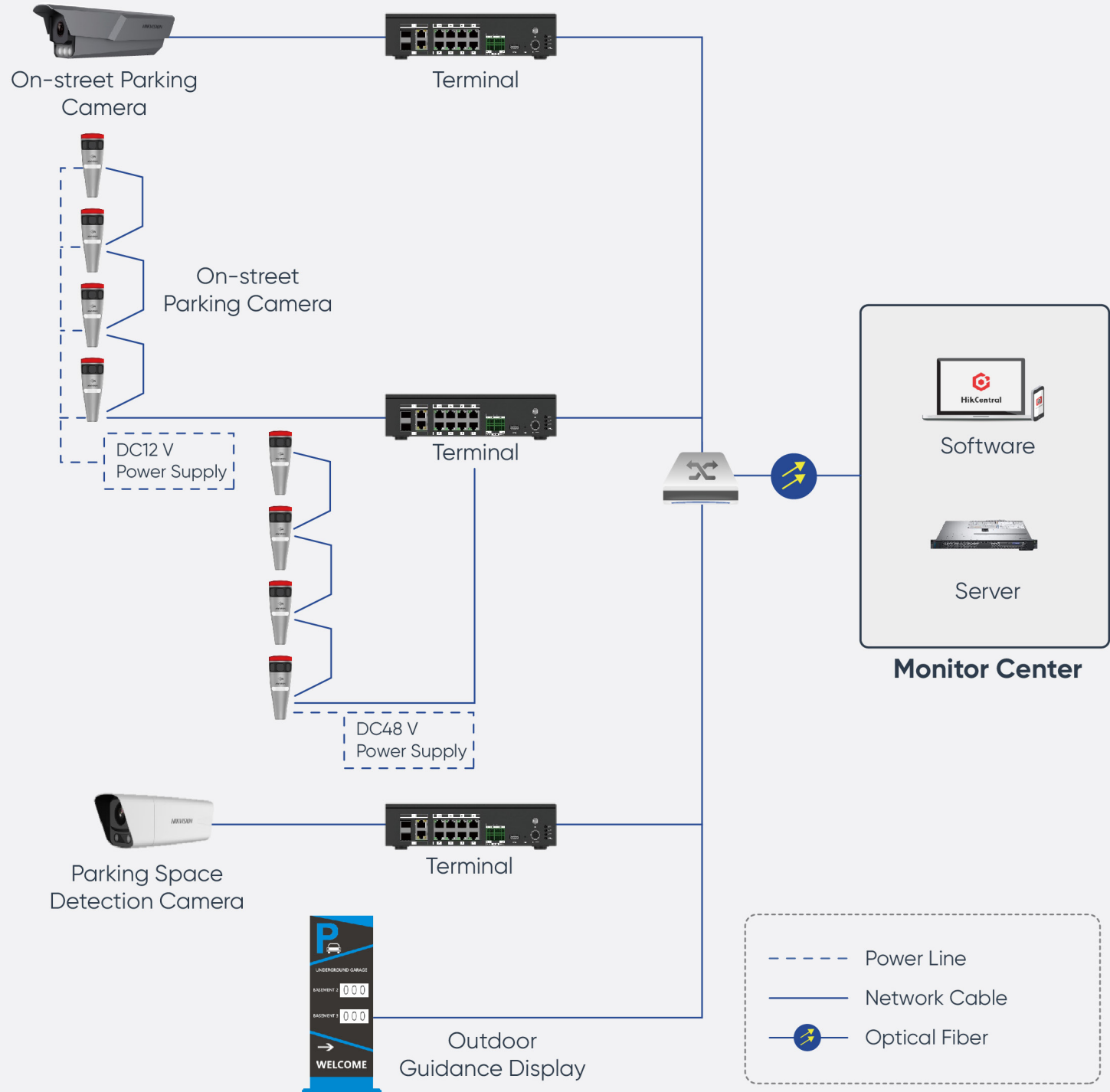
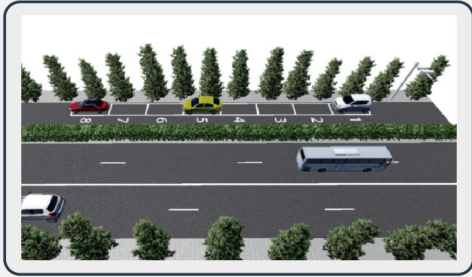


E&E and Parking Guidance System




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: 0.0004351lux(F2.0,AGC ON) B/W: 0.000022lux(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 1/1000000 s	1/30 s to 1/1000000 s	1/30 s to 1/1000000 s
Lens	Vari-focal lens, motor-driven lens	Fixed lens	Vari-focal lens, motor-driven lens
Focal Length	11 to 55mm / 04 to 11mm	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 to 16 Mbps	32 Kbps to 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,850nm,angle:40°	1 LED Supplement Light,850nm,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 10M /100M/ 1000M Ethernet interface, 1 RS-485 interface	2 RJ45 10M /100M/ 1000M 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 to 24 VDC	12 to 24 VDC	10 to 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 × 4.5inch)	237.77 × 80 × 80 mm (9.36 × 3.15 × 3.15 inch)
Weight	2 ± 0.5 kg (4.4 ± 1.1 lb)	500 g (1.1lb)	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 Humidity10 % - 90 %

PRODUCT QUICK GUIDE

E&E AND PARKING GUIDANCE SYSTEM

January-June 2023



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