Mobile & Traffic Range

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HIKVISION®

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Mobile Onboard Video System

Mobile Onboard Video System

Hikvision's Mobile Onboard Video System is designed for easier and smarter supervision, scheduling, and emergency response of buses, taxis, trucks, and other types of vehicles. The system enables real-time monitoring of vehicles interior and their surroundings along with high precision positioning of vehicles. The system's video analytics capabilities ensure that abnormal driving behaviors can be promptly and accurately detected and drivers can be instantly alerted, protecting them and their passengers from potential incidents. Should an incident such as pickpocketing or traffic accident occur, video footage with key data can be exported to law enforcement agencies as forensic evidence. The system also features a powerful platform software for live view, video playback, GIS map, device health monitoring, emergency alarms, and more.

Mobile Onboard Video System
Analog Camera

> Up to 2 MP @ 25 fps

> Indoor / outdoor housings in a variety of models

> With high-definition analog video monitoring technology, uncompressed and high-resolution video transmits perfectly

> Real-time monitoring of public transportation

> Local recording and remote downloading of HD video

Analog Camera

Model	AE-VC1(2)22T-IT(S)	AE-VC124T-IT	AE-VC211T-IRS	AE-VC1(2)53T-IT	AE-VC161T-ITS	AE-VC1(2)52T-S
Image						
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Resolution	AE-VC122T-IT(S): 1280 × 720 AE-VC222T-IT(S): 1920 × 1080	1280 × 720	1964 × 1116	AE-VC153T-IT: 1280 × 720 AE-VC253T-IT: 1920 × 1080	1296 × 732	AE-VC152T-S: 1280 × 720 AE-VC252T-S: 1920 × 1080
Min. Illumination	0.1 lux @ (F1.2, AGC ON), 0 lux with IR	0.1 lux @ (F1.2, AGC ON), 0 lux with IR	0.01 lux @ (F1.2, AGC ON), 0 lux with IR	0.1 lux @ (F1.2, AGC ON), 0 lux with IR	0.1 lux @ (F1.2, AGC ON), 0 lux with IR	0.1 lux@(F1.2,AGC ON)
Lens	2.1 mm, 2.8 mm, 3.6 mm	2.1 mm, 2.8 mm	2.8 mm, 3.6 mm, 6 mm	2.1mm, 2.8 mm ,3.6 mm	Fore Sight: 2.1 mm, 2.8 mm Back Sight: 2.1 mm, 2.8mm	2.1 mm, 2.8 mm
IR Range	10-20 m	10-20 m	10-20 m	15 m	10 m	10 m
Angle Adjustment	Pan: 0° - 60°; Tilt: 0° - 50°; Rotation: 0° - 360°	Pan: 0° to 360°; Tilt: 0° to 60° Rotation: 0° to 360°	Pan: -30° to 30°, Tilt: 0° to 75° Rotate: -180° to 180°	Tilt: 0° to 90°	Fore Sight: Bracket Angle Adjustment Range: 0° to 90° Back Sight: Pan: 0° to 360° Tilt: 0° to 60°; Rotation: 0° to 360°	Pan: 0°; Tilt: 0°; Rotation: 0°, Bracket Angle Adjustment Range: 0° to 180°
Operating Temperature	-40 ℃ to 75 ℃ (-40 °F to 167 °F)	-40 ℃-75 ℃(-40 °F-158 °F)	-40 ℃ to 75 ℃ (-40 °F to 167 °F)	-40 ℃ to 75 ℃ (-40 °F to 167 °F)	-30 ℃ to 65 ℃ (-22 °F to 149 °F)	-30 ℃ to 65 ℃ (-22 °F to 149 °F)
Operating Humidity	90% or less (non-condensing)	90% or less (non-condensing)	90% or less (non-condensing)	90% or less (non-condensing)	90% or less (non-condensing)	90% or less (non-condensing)
Audio In	(S): Built-in Microphone	-	Built-in Microphone	-	Built-in Microphone	Built-in Microphone
Audio Out	1-ch, Aviation Port (Output Impedance: 1KΩ±10%)	-	1-ch, Aviation Port (Output Impedance: 1KΩ±10%)	-	2-ch, Aviation Port (Output Impedance: 1KΩ±10%)	1-ch, Aviation Port (Output Impedance: 1KΩ±10%)
Frame Rate	25 fps	25 fps	25 fps / 30 fps	25 fps	25 fps	25 fps
Power Supply	9-16 VDC	6-16 VDC	12 VDC ± 15%	9-16 VDC	9-16 VDC	9-16 VDC

Mobile Onboard Video System
Dashboard Camera

Hikvision's Dashboard Camera supports live view, footage playback, and parameter configuration on the mobile app. Excluding video monitoring, the G4 dashboard camera supports driver facial recognition and driving behavior analysis and it can be used in taxis, police cars, trucks, and more.

> Built-in GPS, Wi-Fi, 4G mobile technology (optional)

> Direct linkage with mobile app via Bluetooth or Wi-Fi

> TF card with max 128 GB

> Built in gyro for collision trigger emergency recording

> G4 Dashboard Camera supports front-end driver facial-recognition attendance, and people counting. It also supports driving behavior detection, such as using mobile phones, smoking, driving while drowsy, etc.

Dashboard Camera

Model	AE-DI5042-G4	AE-VC143T-ITS	AE-VC154T-IT	AE-DN2016-F3(Pro)
Image			HOT	
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Resolution	1440P	720P	720P	1080P
Min. Illumination	0.1 Lux@(F1.2,AGC ON)	0.1 Lux@(F1.2,AGC ON)	0.1 Lux@(F1.2,AGC ON)	-
Lens	-	2.1mm	6mm	-
IR Range	5m	5m	3m	-
Angle Adjustment	153°(diagonal), 127°(horizontal)	-	52 °(Horizontal),28 °(Vertical), 60 °(Diagonal)	135°(Diagonal), 115°(Horizontal)
Smart Event	Supports front-end driver facial- recognition attendance and people counting Supports detection of driver absent minded, making phone calls	Supports passenger people counting (Working with AE-DI5042-G4)	Supports face capturing, recognition and uploading(Working with AE-DI5042-G4) Supports detection of driver absent minded, making phone calls (Working with AE-DI5042-G4)	-
Communication module	Wi-Fi, Bluetooth, 4G	-	-	Wi-Fi,Bluetooth
Sensor	GPS, Gyroscope	-	-	G-sensor,GPS
Storage	Dual TF Card(up to 128 GB for each)	-	-	TF card, Max. 128 GB
Operating Temperature	-20°C to 60°C	-35°C-65°C	-30°C-65°C	-10°C-60°C
Operating Humidity	90% or less (non-condensing)	90% or less (non-condensing)	90% or less (non-condensing)	95% or less (non-condensing)
Audio In	Built-in Microphone	Built-in Microphone	-	Built-in Microphone
Frame Rate	25 fps	25 fps	25 fps	25 fps
Power Supply	DC12V	9-16 VDC	DC12V	5 VDC, 2A
Application Tips	-	Working with AE-DI5042-G4 only	Working with AE-DI5042-G4 only	-

Mobile Onboard Video System
Digital Video Recorder

Comprehensive high-definition video monitoring helps to deal with situations such as pickpocketing, traffic accidents, terrorism, disorderly behavior of passengers and drivers, and more.

> Real-time HD video monitoring

> Pluggable 3G/4G or Wi-Fi module transmission

> Vehicle location and trajectory tracking via GPS

> Hard disk box design, adopting hard disk vibration damping technology

> Power-off protection prevents key data from loss

> Shutdown delay (0 hour to 6 hours) and 24-hour scheduled startup/ shutdown

> Supports software-based firewall

> Wide-range power input (+9 VDC to +32 VDC)

Digital Video Recorder

Model	DS-MP5604-SD	DS-MP5604	DS-MP7608	DS-MP7608H
Image	 2 * SD card	HOT	HOT	
Video Input	4-ch TVI/AHD/CVI/CVBS (Aviation)	4-ch TVI/AHD/CVI/CVBS (Aviation)	8-ch TVI/AHD/CVI/CVBS (Aviation)	8-ch TVI / CVBS & 4-ch IP (Aviation)
Two-Way Audio	1-ch, G.722	1-ch, G.722	1-ch, G.722	1-ch, G.722
Video Output	1-ch CVBS	1-ch CVBS output 1-ch VGA output	2-ch CVBS video output 1-ch VGA video output	2-ch CVBS video output, 1-ch VGA video output
Video Compression	H.264/H.265	H.264/H.265	H.264/H.265	H.264/H.265
Max Resolution	Main stream: 1080p sub-stream: 4CIF	Main stream: 1080P Sub-Stream: 4CIF	Main stream: 1080P Sub-stream: 720P	Main stream: 1080P Sub-stream: 720P
Frame Rate	PAL: 1 to 12 fps @ 1080P; NTSC: 1 to 12 fps @ 1080P PAL: 1 to 25 fps @ 720P; NTSC: 1 to 30 fps @ 720P	PAL: 1 to 12 fps @ 1080P; NTSC: 1 to 12 fps @ 1080P PAL: 1 to 25 fps @ 720P; NTSC: 1 to 30 fps @ 720P	PAL: 1 to 25 fps @ 1080P; NTSC: 1 to 30 fps @ 1080P	PAL: 1 to 25 fps @ 1080P; NTSC: 1 to 30 fps @ 1080P
Storage	2 × SD cards, up to 256 GB for each card	1 × 2.5 inch HDD/SSD, up to 2 TB 1 × SD card, up to 256 GB	2 × 2.5 inch HDD/SSD, up to 2 TB 1 × SD card slot, up to 256 GB	2 × 2.5 inch HDD/SSD, up to 2 TB 1 × SD card slot, up to 256 GB
3G/4G Dialing	3G/4G (optional)	3G/4G (optional)	3G/4G (optional)	3G/4G (optional)
Wi-Fi	2.4GHz / 5GHz (optional)	2.4GHz / 5GHz (optional)	2.4GHz / 5GHz (optional)	2.4GHz / 5GHz (optional)
GNSS (Global Navigation Satellite System)	GPS / GLONASS	GPS / GLONASS	GPS / GLONASS	GPS / GLONASS
Network Interface	1 × 10M/100M M12 6-pin aviation plug	1 × 10M/100M M12 6-pin aviation plug	1 × 10M/100M RJ45 Ethernet interface	1 × 10M/100M RJ45 Ethernet interface
Serial Port/CAN	1 × RS-232. 1 × RS-422	2 × RS-232, 1 × RS-422 (integrated in EXT.DEV interface)	3 × RS-232, 2 × RS-485, 1 × RS-422, 2 × CAN	3 × RS-232, 2 × RS-485, 1 × RS-422, 2 × CAN
USB Interface	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0 of 5-pin aviation connector	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0 of 5-pin aviation connector	Front panel: 1 × USB 2.0 and 1 × USB 3.0 Rear panel: 1 × USB 2.0 of 5-pin aviation plug	Front panel: 1 × USB 2.0 and 1 × USB 3.0 Rear panel: 1 × USB 2.0 of 5-pin aviation plug
Sensor-in	4 high/low level signal inputs	4 high/low level signal inputs	4 high/low level signal inputs	4 high/low level signal inputs
Alarm Input/Output	4/2	4/2	4/2	4/2
Power Supply	9 to 32 VDC	9 to 32 VDC	9 to 32 VDC	9 to 32 VDC
Consumption	Standby: ≤ 0.5 W Full load: ≤ 45 W Note: Without peripheral and storage media ≤ 20 W	Standby: ≤ 0.5 W Full load: ≤ 45 W Note: Without peripheral and storage media ≤ 20 W	Standby: ≤ 0.5 W Full load: ≤ 99 W Note: Without peripheral and storage media: ≤ 20 W	Standby: ≤ 0.5 W Full load: ≤ 99 W Note: Without peripheral and storage media: ≤ 20 W
Working Temperature	-10 °C to +60 °C (+14 °F to +140 °F)	Device that provides dummy HDD with heating function: -30 °C to +60 °C (-22 °F to +140°F) Device that provides dummy HDD without heating function: -10 °C to +60 °C (14 °F to 140°F)	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)	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 95%	10% to 95%	10% to 95%	10% to 95%
Dimensions (W × D × H)	184 × 142.6 × 44 mm (7.24 × 5.61 × 1.73 inch)	206 × 225.4 × 60.1 mm (8.11 × 8.87 × 2.37 inch)	202 × 267.6 × 93.9 mm (7.95 × 10.53 × 3.70 inch)	202 × 267.6 × 93.9 mm (7.95 × 10.53 × 3.70 inch)

Mobile Onboard Video System
Network Camera

> Real-time HD video monitoring

> Indoor / outdoor housing

> Up to 12 MP @ 30 fps

> H.265+ / H.265 / H.264+ / H.264 / MJPEG video compression

> Up to 30 m IR range

> RJ45, M12 interfaces

> Anti-vibration

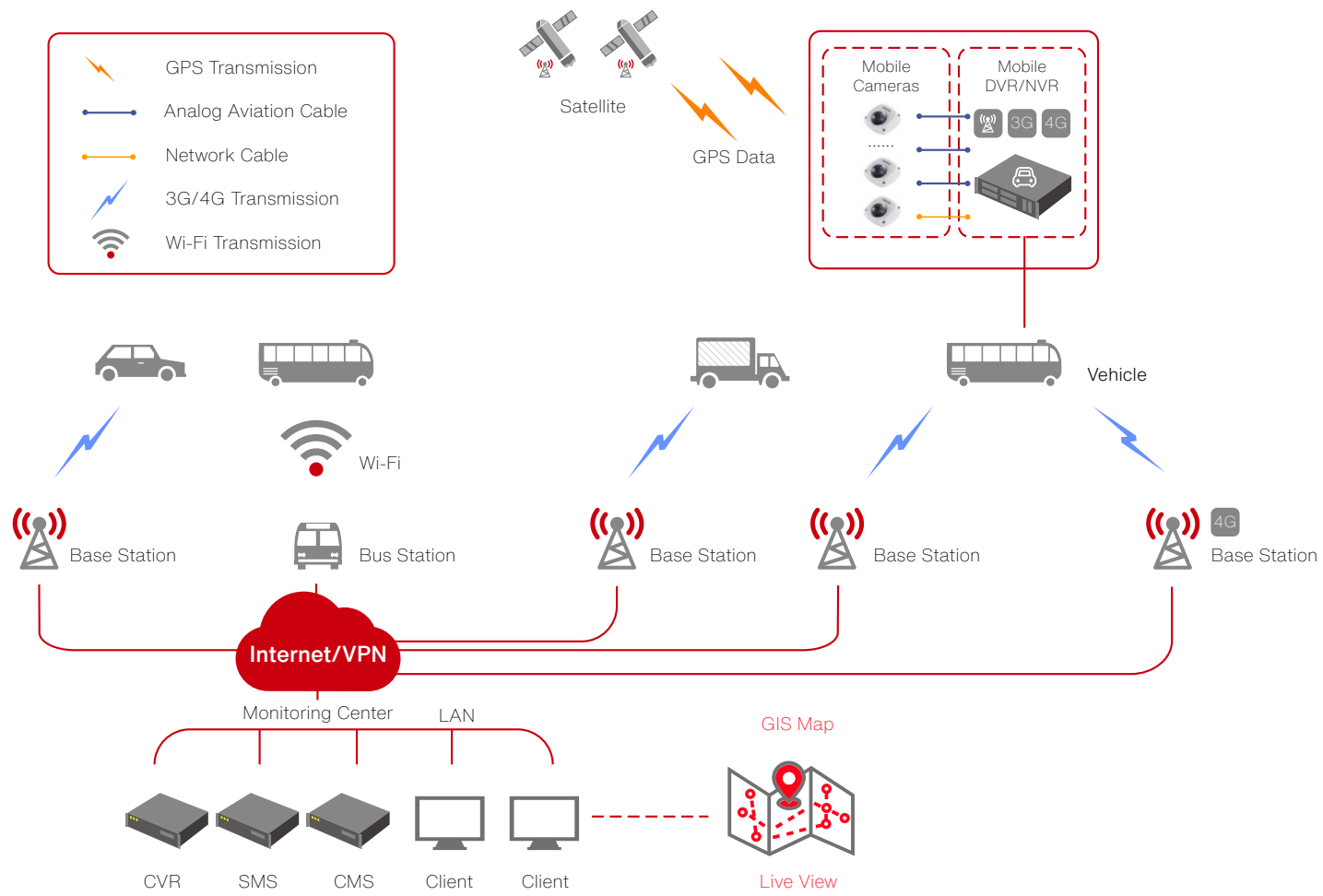| Model	DS-2XM6825G0/C-IV(S)(M)(M/ND)	DS-2XM672(5)6G0-ID(S/M)(/ND)	DS-2XM611(2)2G0-ID(M)(/ND)	DS-2XM621(2)2G0-ID(M)(/ND)	DS-2XM651(2)2G0-ID(M)(/ND)
Image					
Image Sensor	1/2.8" Progressive Scan CMOS	DS-2XM6726G0-ID(S/M)(/ND): 1/2.8" Progressive Scan CMOS DS-2XM6756G0-ID(S/M)(/ND): 1/2.9" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Max. Resolution	1920 × 1200	DS-2XM6726G0-ID(S/M)(/ND): 1920 × 1080 DS-2XM6756G0-ID(S/M)(/ND): 3072 × 2048	DS-2XM6112G0-ID(M)(/ND): 1280 × 960 DS-2XM6122G0-ID(M)(/ND): 1920 × 1080	DS-2XM6212G0-ID(M)(/ND): 1280 × 960 DS-2XM6222G0-ID(M)(/ND): 1920 × 1080	DS-2XM6512G0-ID(M)(/ND): 1280 × 960 DS-2XM6522G0-ID(M)(/ND): 1920 × 1080
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.007 Lux @ (F2.25, AGC ON)	DS-2XM6726G0-ID(S/M)(/ND): Color: 0.005 Lux @ (F1.2, AGC ON), 0.002 Lux @ (F1.6, AGC ON), 0 Lux with IR DS-2XM6756G0-ID(S/M)(/ND): Color: 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR	0.01Lux @ (F1.2, AGC ON), 0 Lux with IR	Color: 0.018 Lux @(F1.2, AGC ON) B/W: 0.006 Lux @(F1.2, AGC ON), 0 lux with IR	0.01Lux @ (F1.2, AGC ON), 0 Lux with IR
WDR	Digital WDR	120 dB	120 dB	120 dB	120 dB
Lens	2 mm	2.0 / 2.8 / 4 / 6 / 8 mm	2.8 / 4 / 6 mm	2.8 / 4 / 6 mm	2.8 / 4 / 6 mm
FOV	Horizontal FOV 108°, vertical FOV 84°, diagonal FOV 117.5°	DS-2XM6726G0-ID(S/M)(/ND): 2.0 mm @ F1.6, horizontal FOV 132°, vertical FOV 77°, diagonal FOV 153°; 2.8 mm @ F1.6, horizontal FOV 110°, vertical FOV 60°, diagonal FOV 130°; 4 mm @ F1.6, horizontal FOV 82°, vertical FOV 45°, diagonal FOV 98° DS-2XM6756G0-ID(S/M)(/ND): 2.0 mm @ F1.6, horizontal FOV 119.5°, vertical FOV 69.8°, diagonal FOV 136°; 2.8 mm @ F1.6, horizontal FOV 97.6°, vertical FOV 53.5°, diagonal FOV 113.6°; 4 mm @ F1.6, horizontal FOV 73°, vertical FOV 40.3°, diagonal FOV 85.3°	2.8 mm: horizontal FOV 102°, vertical FOV 54°, diagonal FOV 118° 4 mm: horizontal FOV 77°, vertical FOV 42°, diagonal FOV 91° 6 mm: horizontal FOV 50°, vertical FOV 27°, diagonal FOV 59°	2.8 mm: horizontal FOV 115°, vertical FOV 62°, diagonal FOV 135° 4 mm: horizontal FOV 87°, vertical FOV 48°, diagonal FOV 102° 6 mm: horizontal FOV 60°, vertical FOV 32.4°, diagonal FOV 70° 8 mm: horizontal FOV 41°, vertical FOV 23.2°, diagonal FOV 47.6° 12 mm: horizontal FOV 26.5°, vertical FOV 15°, diagonal FOV 30.5°	2.8 mm: horizontal FOV 104°, vertical FOV 56°, diagonal FOV 121° 4 mm: horizontal FOV 77°, vertical FOV 42°, diagonal FOV 91° 6 mm: horizontal FOV 50°, vertical FOV 27°, diagonal FOV 59°
Max. IR Range	3 m	30 m	10 m	30m	10 m
Smart Event	Counts people entering and exiting separately	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection Face detection: detects faces and upload images	Defocus Detection, Scene Change Detection, Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Unattended Baggage Detection, Object Removal Detection	Line crossing detection, intrusion detection, region entrance detection, region exit detection, unattended baggage detection, object removal detection,Scene change detection, defocus detection,Face Detection	Line crossing detection, intrusion detection, region entrance detection, region exit detection, unattended baggage detection, object removal detection,Scene change detection, defocus detection,Face Detection
Frame Rate	50Hz: 25fps (1920 × 1200) 60Hz: 30fps (1920 × 1200)	DS-2XM6726G0-ID(S/M)(/ND): 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720) DS-2XM6756G0-ID(S/M)(/ND): 50Hz: 20fps (3072 × 2048, 3072 × 1728, 2944 × 1656) 25fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 20fps (3072 × 2048, 3072 × 1728, 2944 × 1656) 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)"	DS-2XM6112G0-ID(M)(/ND): 50Hz: 25fps (1280 × 960, 1280×720) 60Hz: 30fps (1280 × 960, 1280×720) DS-2XM6122G0-ID(M)(/ND): 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)	DS-2XM6212G0-ID(M)(/ND): 50Hz: 25fps (1280 × 960, 1280 × 720) 60Hz: 30fps (1280 × 960, 1280 × 720) DS-2XM6222G0-ID(M)(/ND): 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)	DS-2XM6512G0-ID(M)(/ND): 50Hz: 25fps (1280 × 960, 1280×720) 60Hz: 30fps (1280 × 960, 1280×720) DS-2XM6522G0-ID(M)(/ND): 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280×720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280×720)
Multi-Streaming	2	3	3	3	3
Protection Level	IP66, IK08	IP67, IK10	IP66, IK08	IP67	IP68, IK10
Angle Adjustment	Pan: 0°, Tilt: 0° to 25°, Rotate: 0°	Pan: -30° to +30°, Tilt: 0° to 75°, Rotate: 0° to 360°	Pan: -30° to 30°, Tilt: 0° to 80°, Rotate: 0° to 360°	Pan: -20° to 20°, tilt: -15° to 20°	Pan: -15° to 15°, tilt: 0° to 30°, rotate: -90° to 90°
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +60 °C (-22 °F to +140 °F)	-30 °C to +65 °C (-22 °F to +149 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
Operating Humidity	95% or less (non-condensing)	≤90% or less (non-condensing)	≤90% or less (non-condensing)	≤90% or less (non-condensing)	≤90% or less (non-condensing)
Local Storage	256 GB	128 GB	128 GB	128 GB	N/A
Audio I/O	1 built-in microphone -IVS: 1 input (line in, two-core terminal block), 1 output (two-core terminal block)	Built-in microphone	Built-in microphone	N/A	N/A
Alarm I/O	2 in, 2 out	1 in, 1 out	N/A	N/A	N/A
Installation	Indoor	Indoor	Indoor	Outdoor	Outdoor
Power Supply	9-36 VDC, PoE (802.3af 36 V to 57 V)	12 VDC ± 25%, PoE (802.3af)	12 VDC; PoE (802.3af)	12 VDC ±20%, PoE (802.3af, class 3)	12 VDC; PoE (802.3af)

Model	DS-2XM6425G0/F-M31	DS-2XM6425G0/F-IM91	DS-2XM6425G0/F-IM81	DS-2XM63C(6)5G0-IV(S)(M)(/ND)	DS-2XM6D5(8)2G0-I(M)(S)(/ND)
Image					
Image Sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	DS-2XM63C5G0-IV(S)(M)(/ND): 1/1.7'' Progressive Scan CMOS DS-2XM6365G0-IV(S)(M)(/ND): 1/1.8'' Progressive Scan CMOS	DS-2XM6D52G0-I: 1/2.7"" Progressive Scan CMOS DS-2XM6D82G0-I: 1/2.5"" Progressive Scan CMOS
Max. Resolution	1920 × 1080	1920 × 1080	1920 × 1080	DS-2XM63C5G0-IV(S)(M)(/ND): 4000 × 3000 DS-2XM6365G0-IV(S)(M)(/ND): 3072 × 2048	DS-2XM6D52G0-I: 2560 × 1440 DS-2XM6D82G0-I: 3840 × 2160
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
Min. Illumination	Color: 0.001 lux @ (F1.2, AGC ON), 0.002 lux @ (F1.6, AGC ON) B/W: 0.0007 lux@(F1.2, AGC ON), 0.001 lux@(F1.6, AGC ON), 0 lux with IR	Color: 0.001 lux @ (F1.2, AGC ON), 0.002 lux @ (F1.6, AGC ON) B/W: 0.0007 lux@(F1.2, AGC ON), 0.001 lux@(F1.6, AGC ON), 0 lux with IR	Color: 0.001 lux @ (F1.2, AGC ON), 0.002 lux @ (F1.6, AGC ON) B/W: 0.0007 lux@(F1.2, AGC ON), 0.001 lux@(F1.6, AGC ON), 0 lux with IR	DS-2XM63C5G0-IV(S)(M)(/ND): 0.015 lux @ (F1.2, AGC ON), 0.003 lux @ (F1.2, AGC ON), 0 lux with IR DS-2XM6365G0-IV(S)(M)(/ND): 0.01 lux @ (F1.2, AGC ON), 0.001 lux @ (F1.2, AGC ON), 0 lux with IR	DS-2XM6D52G0-I: Color: 0.005 Lux @(F1.2 AGC ON) B/W: 0.001 Lux @(F1.2 AGC ON), 0 lux with IR DS-2XM6D82G0-I: Color: 0.02 Lux @(F1.2 AGC ON) B/W: 0.005 Lux @(F1.2 AGC ON)
WDR	120 dB	120 dB	120 dB	N/A	120 dB
Lens	2.0 / 2.8 / 4 mm	2.0 / 2.8 / 4 mm	2.0 / 2.8 / 4 / 6 / 8 mm	DS-2XM63C5G0-IV(S)(M)(/ND): 2.0 mm DS-2XM6365G0-IV(S)(M)(/ND): 1.27 mm	DS-2XM6D52G0-I: 2.8 / 4 / 6 mm DS-2XM6D82G0-I: 2.8 / 4 / 6 / 8 mm
FOV	2 mm @ F2.0: horizontal FOV 132.8°, vertical FOV 77.5°, diagonal FOV 153° 2.8 mm @ F1.6: horizontal FOV 110.5°, vertical FOV 60°, diagonal FOV 130° 4 mm @ F1.6: horizontal FOV 86°, vertical FOV 45°, diagonal FOV 102°	2 mm @ F2.0: horizontal FOV 132.8°, vertical FOV 77.5°, diagonal FOV 153° 2.8 mm @ F1.6: horizontal FOV 110.5°, vertical FOV 60°, diagonal FOV 130° 4 mm @ F1.6: horizontal FOV 86°, vertical FOV 45°, diagonal FOV 102°	2 mm @ F2.0: horizontal FOV 132.8°, vertical FOV 77.5°, diagonal FOV 153° 2.8 mm @ F1.6: horizontal FOV 110.5°, vertical FOV 60°, diagonal FOV 130° 4 mm @ F1.6: horizontal FOV 86°, vertical FOV 45°, diagonal FOV 102° 6 mm @ F1.6: horizontal FOV 52.7°, vertical FOV 30.3°, diagonal FOV 60.3° 8 mm @ F1.6: horizontal FOV 40.5°, vertical FOV22.4°, diagonal FOV 46.8°	Horizontal FOV 180° (wall mount), 360°(ceiling mount), 360°(table mount)	DS-2XM6D52G0-I: 2.8 mm: horizontal FOV 97°, vertical FOV 70°, diagonal FOV 128°；4 mm: horizontal FOV 79°, vertical FOV 57°, diagonal FOV 104°；6 mm: horizontal FOV 49°, vertical FOV 35°, diagonal FOV 63° DS-2XM6D82G0-I: 2.8 mm: horizontal FOV 103°, vertical FOV 53°, diagonal FOV 124°；4 mm: horizontal FOV 79°, vertical FOV 41°, diagonal FOV 94°；6 mm: horizontal FOV 50°, vertical FOV 27°, diagonal FOV 58°
Max. IR Range	N/A	5 m	5 m	Up to 15 m IR range, 3 LEDs. Each LED is independently controlled.	10 m
Smart Event	Line crossing detection, intrusion detection, region entrance, region exiting, unattended baggage,object removal;Face capture base in deeplearning technology	Line crossing detection, intrusion detection, region entrance, region exiting, unattended baggage, object removal;Face capture base in deeplearning technology	Line crossing detection, intrusion detection, region entrance, region exiting, unattended baggage, object removal;Face capture base in deeplearning technology	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection	N/A
Frame Rate	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)	DS-2XM63C5G0-IV(S)(M)(/ND): 50Hz: 20fps (4000 × 3000), 25fps (3000 × 3000, 2560 × 2560) 60Hz: 20fps (4000 × 3000), 30fps (3000 × 3000, 2560 × 2560) DS-2XM6365G0-IV(S)(M)(/ND): 50Hz: 25fps (3072 × 2048, 2048 × 2048, 1280 × 1280) 60Hz: 30fps (3072 × 2048, 2048 × 2048, 1280 × 1280)	DS-2XM6D52G0-I: 50Hz: 25fps (2560 × 1920, 2048 × 1536), 60Hz: 30fps (2560 × 1920, 2048 × 1536) DS-2XM6D82G0-I: 50Hz: 25fps (3840 x 2160, 3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720), 60Hz: 30fps (3840 x 2160, 3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720)
Multi-Streaming	2	2	2	2	DS-2XM6D52G0-I: 3 DS-2XM6D82G0-I: 2
Protection Level	IP67 (2 mm: No)	IP67	IP67, IK10	IP67, IK10	IP67, IK10
Angle Adjustment	N/A	tilt: 0° to 75°, rotate: -180° to 180°	pan: -30 to 30, tilt: 0° to 75° (2 mm 0° to 60°), rotate: -180° to 180°	N/A	2.8 mm: pan: -90° to 90°, tilt: 0° to 60°, rotate: 0° to 360° 4 / 6 mm: pan: -90° to 90°, tilt: 0° to 70°, rotate: 0° to 360°
Operating Temperature	-30 °C to 60 °C (-22 °F to +140 °F)	-30 °C to 60 °C (-22 °F to +140 °F)	-30 °C to 60 °C (-22 °F to +140 °F)	-30 °C to 60 °C (-22 °F to 140 °F)	-30 °C to 60 °C (-22 °F to 140 °F)
Operating Humidity	5%-95% or less (non-condensing)	5%-95% or less (non-condensing)	5%-95% or less (non-condensing)	Humidity 95% or less (non-condensing)	≤95% or less (non-condensing)
Local Storage	128 GB	128 GB	128 GB	256 GB	256 GB
Audio I/O	N/A	N/A	N/A	1 audio in (line in), 1 audio out (line out), 2 built-in microphones	Without -S: 2 built-in microphones -S: 2 built-in microphones, 1 line in, 1 line out
Alarm I/O	N/A	N/A	N/A	1 in, 1 out	1 in, 1 out
Installation	Indoor	Indoor(Cameral len can be installed outdoor)	Indoor(Cameral len can be installed outdoor)	Indoor/outdoor	Outdoor
Power Supply	24 VDC, 8-36 VDC PoE (802.3at)	24 VDC, 8-36 VDC PoE (802.3at)	24 VDC, 8-36 VDC PoE (802.3at)	24 VDC, 8-36 VDCPoE (802.3at)	12 VDC, PoE (802.3af)

Mobile Onboard Video System
Network Video Recorder

> Pluggable 3G/4G or Wi-Fi module transmission

> Vehicle locating and tracking via GPS

> Anti-vibration hard disk box design

> Power-off protection prevents key data from loss

> Wide-range power input (+9 VDC to +32 VDC)

> Intelligent network video recorder supports:

> 1-ch driver behavior analysis: using mobile phone, smoking, fatigue driving, distraction, seatbelt unbuckled, and wearing sunglasses

> 2-ch number plate recognition

GPS Transmission

Analog Aviation Cable

Network Cable

3G/4G Transmission

Wi-Fi Transmission

Satellite

GPS Data

Mobile Cameras

Mobile DVR/NVR

3G 4G

......

Vehicle

Wi-Fi

Base Station

Bus Station

Base Station

Base Station

4G

Base Station

Internet/VPN

Monitoring Center

LAN

GIS Map

CVR   SMS   CMS   Client   Client

Live View

Network Video Recorder

Model	DS-MP5604N	DS-MP7608HN	DS-MP7608HN(B)	DS-MP3516-RH
Image	HOT	HOT	NEW	
Video Input	4-ch IP (RJ45/M12 PoE interfaces)	8-ch IP (RJ45/M12 PoE interfaces)	8-ch IP (M12 PoE interfaces)	32-ch IP
Two-way Audio	1,ch G.711/G.722.1	1,ch G.722	1,ch G.722	1,ch G.722
Video Output	1-ch CVBS output 1-ch VGA output	1-ch CVBS output 1-ch VGA output	1-ch CVBS output 1-ch VGA output	1-ch CVBS output 1-ch VGA output
Video Compression	H.264, H.265	H.264, H.265	H.264, H.265	H.264, H.265
Max Resolution	Main stream: 4 MP Sub-stream: 720P	Main stream: 8MP Sub-Stream: 720P	Main stream: 8MP Sub-Stream: 720P	Main stream: 1080P Sub-Stream: 720P
Frame Rate	PAL: 1 to 25 fps; NTSC: 1 to 30 fps	PAL: 1 to 25 fps; NTSC: 1 to 30 fps	PAL: 1 to 25 fps; NTSC: 1 to 30 fps	PAL: 1 to 25 fps; NTSC: 1 to 30 fps
Storage	2 × 2.5 inch HDD/SSD. Up to 2 TB for each HDD/SSD 1 × SD card (stores data when HDDs/SSDs are damaged)	2 × 2.5 inch HDD/SSD. Up to 2 TB for each HDD/SSD 1 × SD card (stores data when HDDs/SSDs are damaged)	2 × 2.5 inch HDD/SSD. Up to 2 TB for each HDD/SSD 1 × SD card (stores data when HDDs/SSDs are damaged)	6 × 2.5 inch HDD/SSD, up to 2 TB for each HDD/SSD
3G/4G Dialing	3G/4G (optional)	3G/4G (optional)	3G/4G (optional)	-
Wi-Fi	2.4GHz/5GHz (optional)	2.4GHz/5GHz (optional)	2.4GHz/5GHz (optional)	-
GNSS (Global Navigation Satellite System)	GPS/GLONASS	GPS/GLONASS	GPS/GLONASS	GPS/GLONASS
Network Interface	1 × 10M/100M RJ45 Ethernet interface 1 × 10M/100M M12 Ethernet interface	1 × 10M/100M/1000M RJ45 Ethernet interface 1 × 10M/100M/1000M M12 Ethernet interface	1 × 10M/100M/1000M RJ45 Ethernet interface 1 × 10M/100M/1000M M12 Ethernet interface	1 × 10M/100M RJ45 Ethernet interface (for debugging)
Serial Port/CAN	1 × RS-232, 1 × RS-422 (integrated in EXT.DEV interface)	2 × RS-232. 1 × RS-485. 1 × RS-422, 2× CAN	2 × RS-232. 1 × RS-485. 1 × RS-422, 2× CAN	2 × RS-232, 1 × RS-422
USB Interface	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0 (5-pin aviation connector)	Front panel: 1 × USB 3.0 Rear panel: 1 × USB 2.0 of 5-pin aviation plug	Front panel: 1 × USB 3.0 Rear panel: 1 × USB 2.0 of 5-pin aviation plug	1 × USB3.0
Sensor-in	4 high/low level signal inputs	4 high/low level signal inputs	4 high/low level signal inputs	8 high/low level signal inputs
Alarm Input/Output	4/2	4/2	4/2	8/2
Smart Event	-	-	1-ch driver behavior analysis: using mobile phone, smoking, fatigue driving, distraction, seatbelt unbuckled, driver exception,and wearing sunglasses 2-ch license plate recognition	-
Power Supply	9 to 32 VDC	9 to 32 VDC	9 to 32 VDC	66 to 160 VDC (110 VDC recommended) 18 to 60 VDC (48 VDC recommended
Consumption	Standby: ≤ 0.5 W Full load: ≤ 45 W Note: Without peripheral and storage media ≤ 20 W	Standby: ≤ 0.5 W Full load: ≤ 99 W Note: Without peripheral and storage media: ≤ 20 W	Standby: ≤ 0.5 W Full load: ≤ 99 W Note: Without peripheral and storage media: ≤ 20 W	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)	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)	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)	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 95%	10% to 95%	10% to 95%	10% to 95%
Dimensions (W × D × H)	206 × 219 × 60 mm (8.1 × 8.62 × 2.36 inch)	202 × 267.6 × 93.9 mm (7.95 × 10.5 × 3.7 inch)	202 × 267.6 × 93.9 mm (8.0 × 14.5 × 3.7 inch)	482 × 284.3 × 89.5 mm (19.0 × 11.2 × 3.5 inch)

Model	DS-MI9605-GA
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: 1080P Sub-Stream: 4CIF
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	2.4GHz
Global Navigation Satellite System (GNSS)	GPS/GLONASS
Network Interface	Front panel: 1 × 10M/100M/1000M Ethernet interface Rear panel: 4 × (4-pin 10M/100M 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)

Mobile Accessories

Mobile LCD Monitor		
Model	DS-MP1301	DS-MP1302
Image	HOT	HOT
Size	7" TFT-LCD	7" TFT-LCD
Resolution	800 × 480 RGB	800 × 480 RGB
Backlight	LED	LED
System	PAL/NTSC	PAL/NTSC
Mobile DVR Video Output	1-ch. Four-pin aviation male plug, connecting to the mobile DVR.	1-ch. 2*7 plug, connecting to the mobile DVR.
Rear-View Camera Video Input	1-ch. Four-pin aviation male plug, connecting to the rear-view CVBS camera.	1-ch. Four-pin aviation male plug, connecting to the rear-view CVBS camera.
Alarm Input	2-ch	2-ch
Working Voltage	12 VDC	12 VDC
Working Temperature	-20° C to +70° C (-4° F to +158° F)	-20° C to +70° C (-4° F to +158° F)
Working Humidity	10% to 95%	10% to 95%
Protection Grade	IP54	IP54
Mounting Type	Embedded mounting; Bracket mounting	Embedded mounting; Bracket mounting
Touch Screen	-	support
IR Receiver	-	Support. For IR forwarding.

Panic Button	
Model	DS-1530HMI
Image	HOT
Power Supply	5 VDC/30 mA
Alarm	1x Emergency button
Sensor	Built-in G-sensor
Remote Control	Built-in IR receiver
Serial Port	1 x RS232
Dimensions (W × D × H)	80 × 30 × 19 mm (3.15 × 1.18 × 0.75 inch)
Working Temperature	-20° C to +60° C (-4 ° F to +140 ° F)
Sampling Interval	100 ms

Fireproof Box	
Model	DS-MP1431
Image	
Storage Medium	MLC
Erase Cycles	3000 times
Power Supply	5V ± 5%
Consumption	<0.5 W (average)
Storage Connector	USB (Aviation connector)
Storage Capacity	64G
Fire Resistance Time	15min @ 1100°C 20min @ 950°C 120min @ 260°C
Water Proof	24 hour @100 m (10ATM)
High Speed Impact	100 Gs @50ms (All direction)
Static Squeeze	100 KN@5min (All direction)
Dimensions	122 x 88 x 57 mm(4.80 × 3.46 × 2.24 inch)
Weight	0.97 kg

Intercom Box	
Model	DS-1350HM
Image	
Audio Mode	Full-duplex
Speaker	< 2 Vpp Impedance: 600 Ω 1-ch built-in speaker.
MIC	< 1.2 Vpp Impedance: 1000 Ω 1-ch built-in MIC.
Frequency range	100 to 20000 Hz
Extension	Jack for 4-section headset
Working Voltage	12 VDC/30 mA
Working Temperature	-10°C to +55°C (+14°F to +131°F)

Portable Enforcement System

Portable Enforcement System

Hikvision's Portable Enforcement System mainly features body worn cameras, portable PTZ dome cameras, and helmet cameras. The body worn cameras are tailored for law enforcement and security personnel for the rigors of duty, integrating photo, video, and audio recording, 3G and 4G wireless transmission, GPS positioning, and centralized management in a compact, handy and sturdy design. The body worn cameras make great assistants in the field with reliable performance on the go and convenient charging and data transmission via dock station. The portable PTZ dome camera provides critical views on the street and around the city to secure the scene. Law enforcement personnel can choose face capture or ANPR mode to make temporary monitoring more intelligent. A helmet camera is small, light, and very convenient to carry, allowing users to record video exactly from their point of view while keeping their hands free.
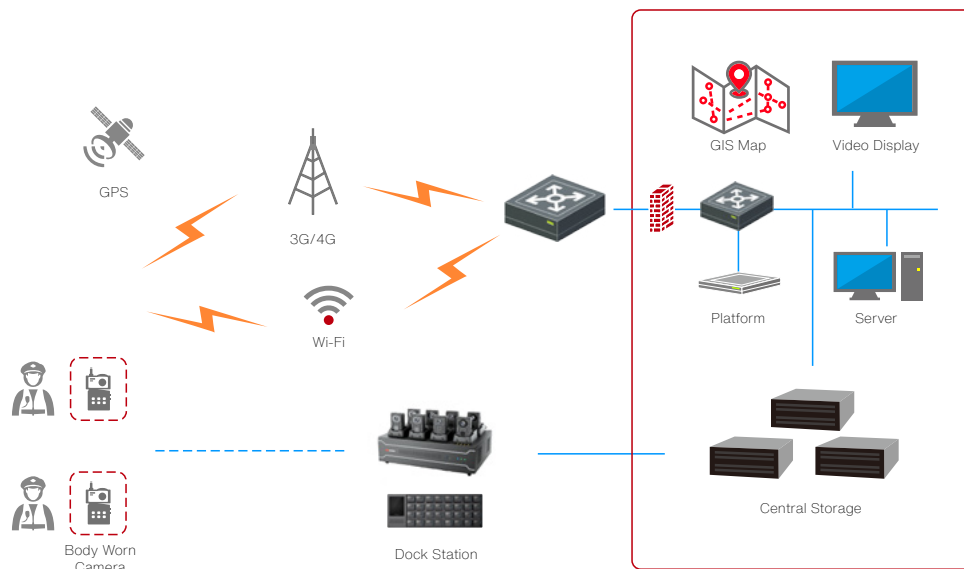
Portable Enforcement System
Body Worn Camera

Body Worn Cameras capture video, audio and images on the move. It records video at resolution up to 1080p at 25 or 30 frames per second, keeping vital metadata such as date, time, GPS location, device number and user details for evidential purpose.

> H.264 and H.265 video encoding

> Up to 1080p @ 30 fps resolutions

> Built-in GPS module

> 3G/4G network transmission (optional)

> Wi-Fi 802.11b/g/n

Body Worn Camera
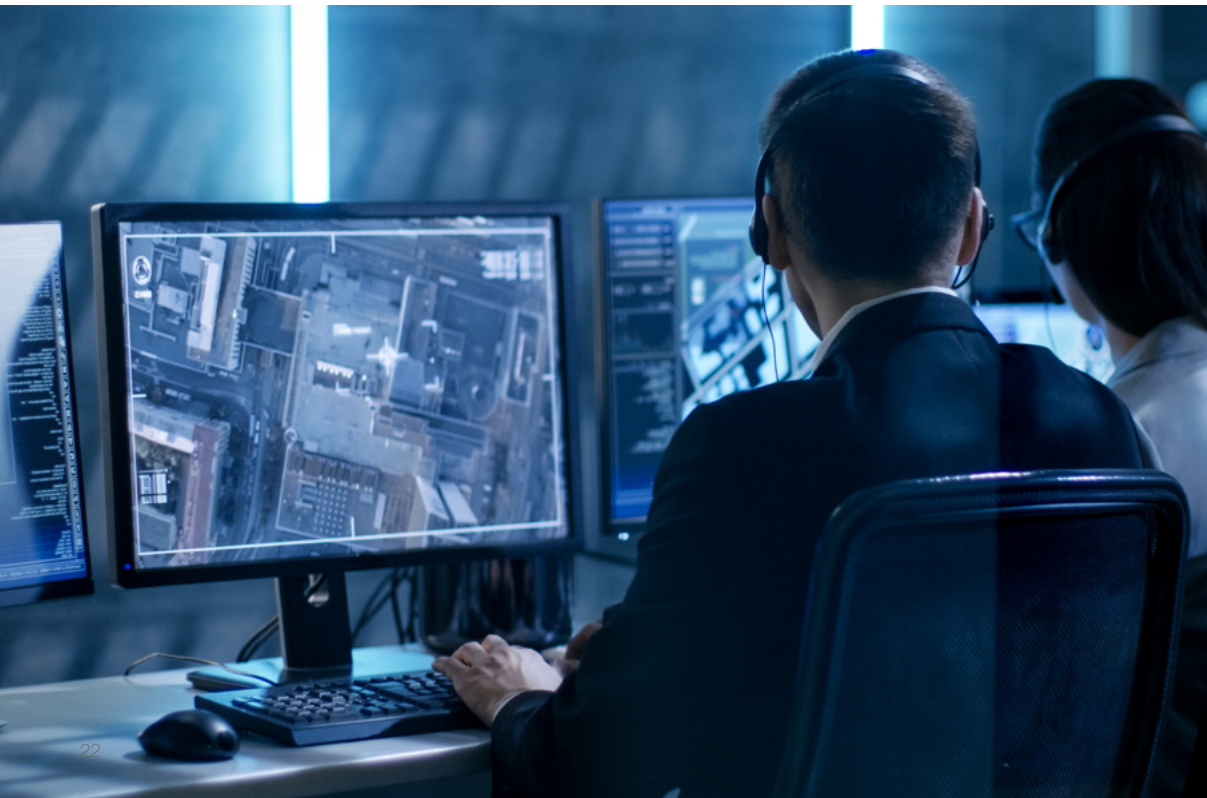
Model	DS-MCW405	DS-MCW407
Image	HOT	HOT
System	Linux	Linux
Video Compression	H.264/H.265	H.264/H.265
Video	1080p/25 fps, 720p/25 fps	1080p/25 fps, 720p/25 fps
Picture	N/A	5M,16M,30M,40M
Display	No Screen	2.0" TFT LCD
IR Illuminators	Support	Support
Wireless Transmission	Not support	FDD LTE: Band 1, Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 20 WCDMA/HSDPA/HSUPA/HSPA+: Band 1, Band 2, Band 5, Band 8
Wi-Fi	802.11 b/g/n	802.11b/g/n
Positioning	Built-in GPS module	Built-in GPS module
Protection Level	IP67	IP67
On-board Storage	32GB	32G (up to 256G)
Battery	A battery with 2,800 mAh capacity which can record videos up to 12 hours in 720p resolution and 10 hours in 1080p resolution	A battery with 3,220mAh capacity which can record videos up to 12 hours in 720p resolution and 11 hours in 1080p resolution
Dimensions	75 × 55 × 24 mm (3.0 × 2.2 × 0.9 inch)	82.6 × 58 × 29 mm (3.7 × 2.4 × 1.1 inch)

GPS

3G/4G

Wi-Fi

Body Worn Camera

Dock Station

GIS Map

Video Display

Platform

Server

Central Storage

Portable Enforcement System
Dock Station

Apart from charging the Body Worn Cameras, Dock Stations also provide a simplified way to access and back up the law-enforcement data.

> Simultaneous charging and video backup from body worn cameras

> Large local storage (optional)

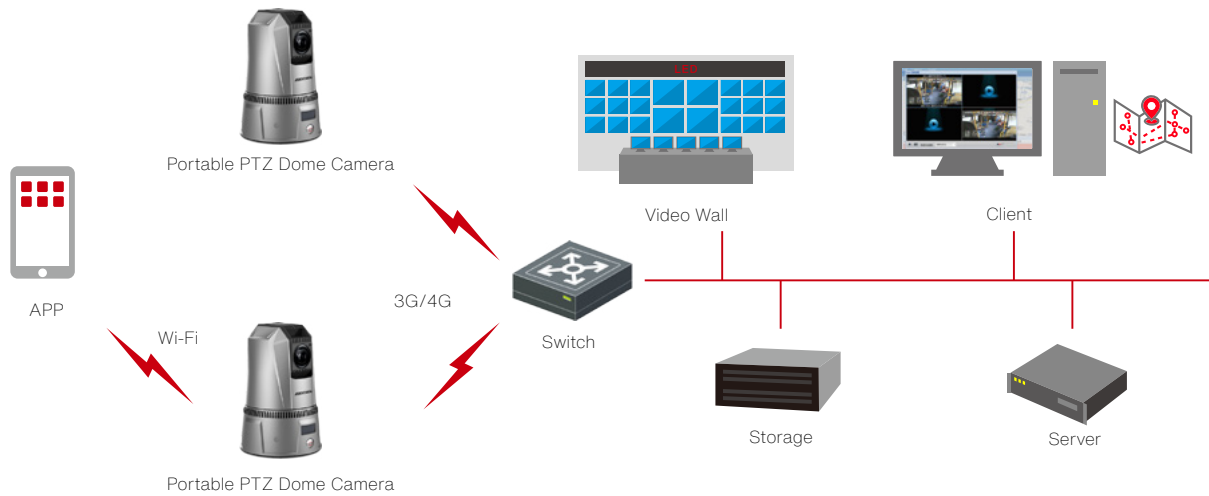| Model	DS-MDS001	DS-MDS003
Image	NEW	HOT
Operation System	Linux	Embedded operation system & Android system
Body Camera Connection Port	Bottom contact port	USB data cables
Number of Body Cameras Cradle	8	8/16/24/32
Power	Max. 250 W	Max. 500 W
Storage	Max. 8 TB for oner each HDD	Max. 8 TB for oner each HDD
USB Interface	1 × USB 3.0	1 × USB 2.0, 1 × USB 3.0
Network Interface	2 × 10M/100M/1000M Ethernet interface	Gigabit network cable is used for local network
Loudspeaker	1	1
Product Dimension	400mm × 300mm × 110mm(15.7× 11.8 × 4.3 inch)	635mm × 604.6mm × 108.7mm (25 × 23.8 × 4.3 inch)

Portable PTZ Dome Camera

A portable PTZ dome developed for mobile enforcement scenarios, providing a mobile view around the city and securing critical borders. Law enforcement personnel can choose from face capture or automatic number plate recognition (ANPR) mode to make temporary monitoring more intelligent.

> Deep learning face capture / Deep learning ANPR

> 4G (FDD-LTE) / 3G (WCDMA)

> H.264 / H.265

> 2 MP / 1080p

> GPS

> Replaceable power supply module

> Up to 9 hours of continuous operation

> IP66

APP

Portable PTZ Dome Camera

Wi-Fi

3G/4G

Portable PTZ Dome Camera

Switch

Video Wall

Client

Storage

Server

Tripod for Portable PTZ Dome

Fast Magnetic Mounting

Customized Vehicle Bracket

Portable PTZ Dome Camera

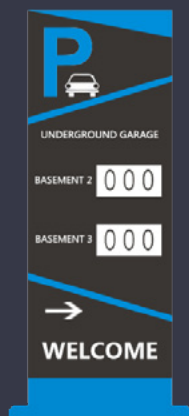| Model	iDS-MCD202-B
Image	HOT Deep Learning
Video Compression	H.265/MJPEG/H.264
Video	50 Hz: 25 fps (1920 *1080, 1280 *720) 60 Hz: 30 fps (1920 *1080, 1280 *720)
Zoom	30× optical zoom, 16× digital zoom
PTZ	Movement Range (Pan) 360° endless Movement Range (Tilt) -20° to 90° (Auto-flip)
IR Distance	Up to 100 m
External Interface	Network interface; Bluetooth and power interface
Wireless Transmission	FDD LTE: Band 1, Band 3, Band 7, Band 8, Band 20 WCDMA/HSDPA/HSUPA/ HSPA+: Band 1, Band 8 GSM/GPRS/EDGE: 900 MHz/1800 MHz 802.11 b/g/n/ac, 2.4 GHz/5.8 GHz, supporting Wi-Fi AP remote live view
Speaker and Microphone	Built-in
LED Screen	Built-in
Positioning	GPS
Protection Level	IP66 standard; TVS 4000V lightning protection, surge protection and voltage transient protection
On-board Storage	Built-in dual TF card slots, up to 256 GB for each TF card
Battery	Pluggable battery for continuous work, up to 9 hours
Intelligent Function	LPR/Face Capture (one of algorithms can operate at a time)

Intelligent Traffic System

HIKVISION

Intelligent Traffic System

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

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

Intelligent Traffic System
Checkpoint System

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

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

> High quality imaging with up to 9 MP resolution (1'' GMOS)

> Excellent low-light performance

> Efficient H.265 compression technology

> 3D DNR technology delivers clean and sharp images

> Supports automatic number plate recognition (ANPR)

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

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

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

Checkpoint

Model	iDS-TCV500-BI/1550/H1	iDS-TCV900-BI/1140/H1
Image	HOT — Deep Learning	HOT — Deep Learning
Image Sensor	2/3'' GMOS	1'' GMOS
Resolution	2464 × 2056	4096 × 2160
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Lens	15-50 mm	11-40mm
Light Range	Up to 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
Smart Function	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection	Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/ Pickup/Pedestrian/Motorcycle/Tricycle	Car/Van/Bus/Truck/Light Truck/SUV_MPV/ Pickup/Pedestrian/Motorcycle/Tricycle
Vehicle Color	Recognizable at daytime only	Recognizable at daytime only
Vehicle Manufacturer	Support	Support
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Driving on Lane Line Detection	Support (only strobe light mode)	Support (only strobe light mode)
Illegal Lane Change Detection	Support (only strobe light mode)	Support (only strobe light mode)
Wrong-Way Driving Detection	Support	Support
Emergency Lane Occupation	Support (truck forbidden lane, emergency lane, urban bus lane)	Support (truck forbidden lane, emergency lane, urban bus lane)
Seatbelt Detection	Support (with flash light)	Support (with flash light)
Phone Call Detection	Support (with flash light)	Support (with flash light)
Capture Speed Range	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
Protection Level	IP66	IP66
Local Storage	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)
Dimensions (W × H × D)	With package: 175.68 × 137.5 × 443.99 mm (6.92 × 5.41 × 17.48 inch)	Whith package: 175.68 × 137.5 × 443.99 mm (6.92 × 5.41 × 17.48 inch)
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 Server

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

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 (W × D × H)	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%

Radar

Model	DS-TD10N-1	DS-TD10M-1
Image		
Power Supply	9 –12 VDC	9 –12 VDC
Central Frequency	24.15 GHz	24.15 GHz
Center Frequency Deviation	≤ ±45 MHz	≤ ±45 MHz
Antenna Beam Width	6° × 6°	35° × 16°
Working Temperature Range	-40 ℃ to +70 ℃	-40 ℃ to +70 ℃
Working Humidity Range	5%RH–95%RH	5%RH–95%RH
Measurement Accuracy	-4-0 km/h	-4-0 km/h
Trigger Consistency	≤ ±1 m	≤ ±1 m
Velocity Range	10-250 km/h	10-250 km/h
Direction Information	Support	Support
Double Trigger	Support vehicle front & rear triggering	Support vehicle front & rear triggering
Multiple Lanes	Support up to 1 lane	Support up to 3 lanes
Wi-Fi Setting	Support	Support
Capture Distance	Single lane 18-28 m	18-28 m
Communication Interface	RS485 (RS232 optional)	RS485, Wi-Fi
Dimension	190 × 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-TL2002AI
Image		
Light Type	IR strobe supplement light	IR strobe supplement light
LED Lamp Beads	16	28
Color Temperature	-	-
Angle of Light	10°	Support 10°, 40°optional
Coverage	single lane	1-3 lanes
Effective Distance	16-25 m	16-25 m
Trigger Manner	TTL level (switch trigger optional)	TTL level (switch trigger optional)
Trigger Level	4V - 6V (High level trigger)	4V - 6V (High level trigger)
Trigger Frequency	-	-
Trigger Duty Ratio	1% -39% (Enter the protection state at Duty Radio ≥ 40%)	1% -39% (Enter the protection state at Duty Radio ≥ 40%)
Response Time	≤ 20 us	≤ 20 us
Day and Night Function	Support ambient brightness detection, automatic start-up at low illumination (optional)	Support ambient brightness detection, automatic start-up at low illumination (optional)
Configuration	Ultra-high frequency flash delay setting	Ultra-high frequency flash delay setting
Service Life	≥ 50000 H	≥ 50000 H
Power Supply	220 VAC ±20%, 47Hz-63Hz 110 VAC ±20%, 47Hz-63Hz	220 VAC ±20%, 47Hz-63Hz 110 VAC ±20%, 47Hz-63Hz
Consumption	Max.36W (Determined by control model)	Max.60W (Determined by control model)
Operating Temperature	-40 ℃ to +70 ℃	-40 ℃ to +70 ℃
Operating Humidity	10%-90%, no condensation	10%-90%, no condensation
Weatherproof Rating	IP65	IP65
Dimension	128 mm (W) × 216 mm (H) × 159 mm (D)	322 mm (W) × 270.5 mm (H) × 118 mm (D)
Mounting Model	Support front-mounted and side-mounted installation (bracket rotation angle -90 ° to +90 °)	Support front-mounted and side-mounted installation (bracket rotation angle -90 ° to +90 °)
Weight	2.72 kg	2.72 kg

Model	DS-TL2002CI	DS-TL2000CI
Image		
Light Type	IR continuous light	IR continuous light
LED Lamp Beads	28	16
Color Temperature	-	-
Angle of Light	40°	40°
Effective Distance	16-25 m	16-25 m
Response Time	≤ 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
Brightness Control	Two grades of brightness control	-
Remote Control	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	-
Exception Detection	supplement light output current is too large or too small	-
Service Life	≥ 50000 H	≥ 50000 H
Housing Material	Die-cast aluminum	Die-cast aluminum
Power Supply	220 VAC±20%, 47Hz-63Hz	220 VAC±20%, 47Hz-63Hz
Consumption	Max.60W, Lower Grade 30W (Determined by control model)	Max.36W (Determined by control model)
Operating Temperature	-40 ℃ to +70 ℃	-40 ℃ to +70 ℃
Operating Humidity	10%-90%, no condensation	10%-90%, no condensation
Weatherproof Rating	IP65	IP66
Dimension	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 °)
Weight	6.28 kg	2.72 kg
Wave Length	≥ 850 nm (Infrared)	≥ 850 nm (Infrared)

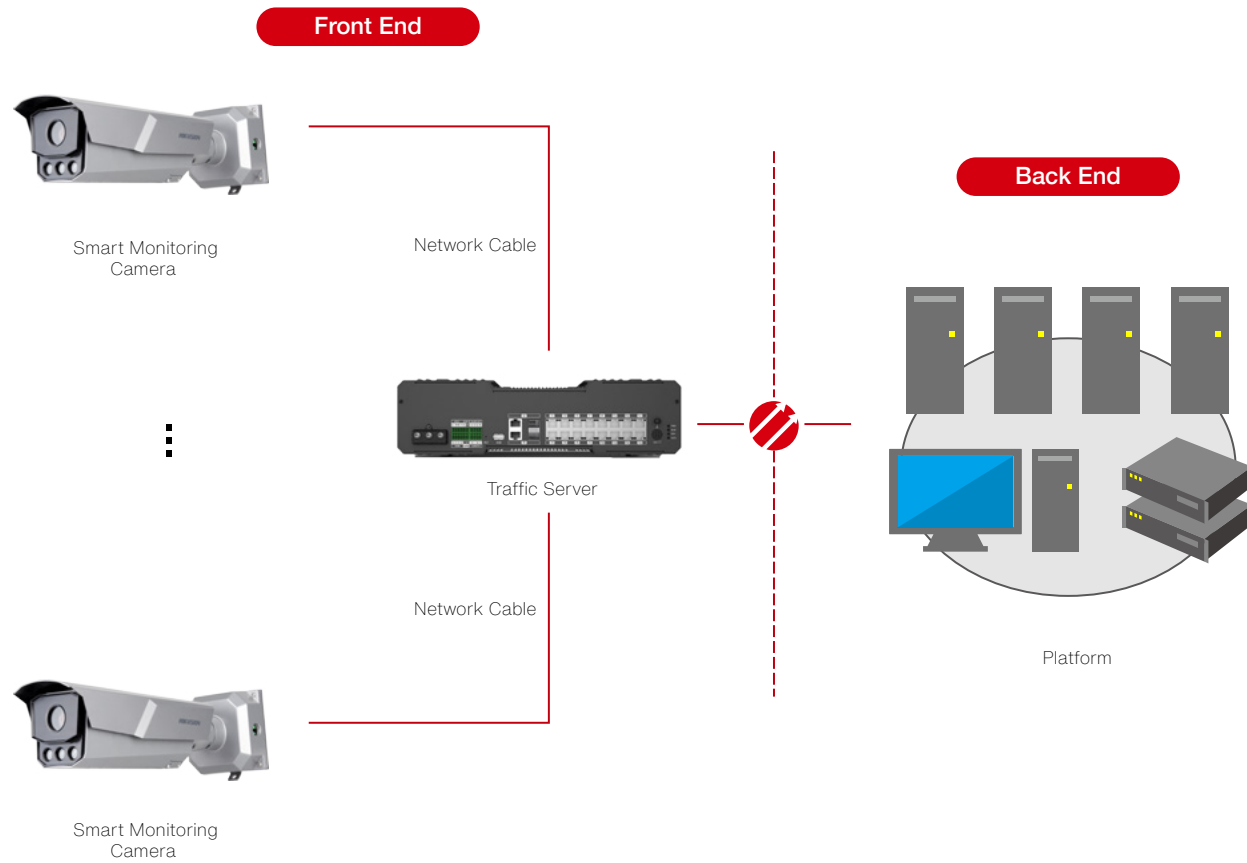| Model	SL-1211-1I
Image	NEW
Power Supply	AC220V±10% / 48Hz-52Hz
Wave Length	≥ 850 nm (Infrared)
Color Temperature	5500 K ± 500 K
Flash energy	200 J
Power Consumption	Average < 100 W (@ 1 flash / s), max < 300 W
Peak flash duration	1 / 30 ms
Response Time	Max. 67ms
Effective distance	16 m to 25 m
Trigger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

Intelligent Traffic System
Smart Monitoring System

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

> High quality imaging with up to 4 MP resolution (1/1.8'' CMOS)

> Clear imaging against strong back light with 140 dB WDR technology

> Excellent low-light performance with DarkFighter technology

> Motorized vari-focal lens for easy installation and monitoring

> Efficient H.265 compression technology

> Smart functions: ANPR, vehicle type, vehicle color, and manufacturer recognition, no-plate vehicle capture, driving direction detection, and motorcycle capture

> Application scenarios: tunnels, toll stations, urban roads, parking entrances

Front End

Smart Monitoring
Camera

Network Cable

Traffic Server

Network Cable

Smart Monitoring
Camera

Back End

Platform

Smart Monitoring Unit

Model	iDS-TCM403-AI
Image	HOT Deep Learning
Focal Length	IDS-TCM403-AI/0411: 4-11 mm IDS-TCM403-AI/0832: 8-32 mm
Light Range	4-11 mm: Up to 50 m / 8-32 mm: Up to 100 m
Coverage	1-3 lanes
Capture Speed Range	5 to 120 km/h
Capture Accuracy	98%
LPR Accuracy	98%
Frame Rate	50 HZ: 2688 × 1520 @ 25 fps 60 HZ: 2688 × 1520 @ 30 fps
Vehicle Type	Car/Van/Bus/Truck/Others (08-32 mm)
Vehicle Color	Recognizable at daytime only (08-32 mm)
Video Compression	H.265/H.264/MJPEG
Standard Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Serial Port	2 RS-485 ports, 1 RS-232 port
By Video	Continuous video analysis with automatic vehicle detection, even without plate.
ANPR Camera	4 MP (1/1.8'' CMOS), max.2688 × 1520
Supplement Light	3 LED IR lights
Protection Level	IP67, IK10
Storage	TF card, up to 128 GB
Operating & Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating & Storage Humidity	Humidity: 95% or less (non-condensing)
Dimensions (W × H × D)	428.5 × 120 × 132.8 mm (16.87 × 4.72 × 5.23 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)

Traffic Server

Model	DS-TP50-16E
Image	HOT
Processor	High-performance ARM A17 processor
Operation System	Embedded Linux operation system
Storage	4 SATA interfaces for 4 HDDs
Capacity	Up to 6 TB capacity for each HDD
Reset button	1
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
Network Interface	l16 x 1000 M Ethernet interface, 1 x internal 10/100/1000 M self-adaptive Ethernet interface, 1 x external 10/100/1000 M self-adaptive Ethernet interface, 1 x internal 1000 M fiber interface, 1 x external 1000 M fiber interface
Alarm Input	2 relay alarm inputs
Alarm Output	2 relay alarm outputs
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity.
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Network	2 IP addresses of different network segment are configurable
Power Supply	Adaptor of 12 VDC /12.5 A
Dimension (W × D × H)	370 × 273 × 102.5 mm (14.6 × 10.7 × 4.0 inch)
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Working Humidity	10% to 90%

Continuous Supplement Light

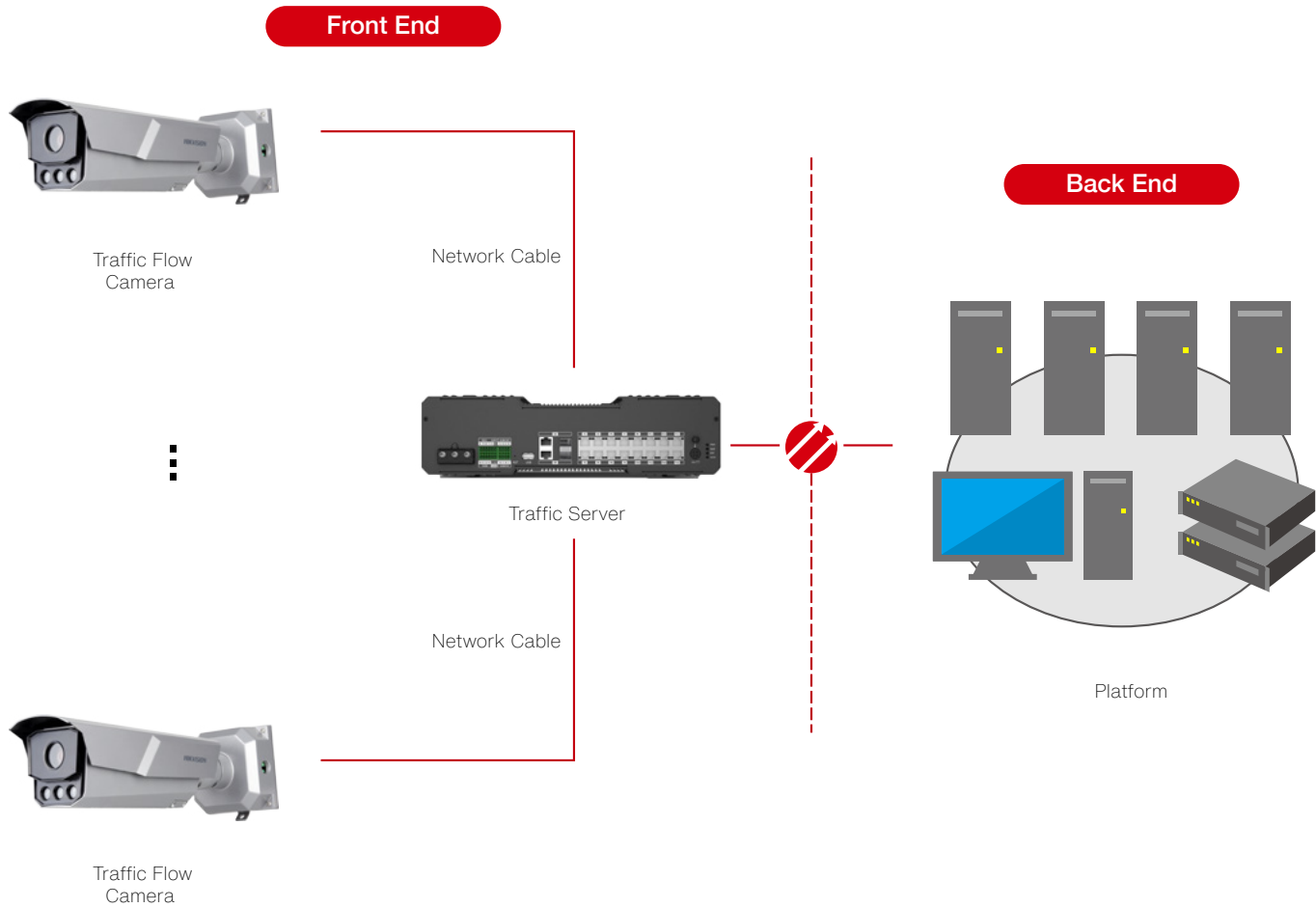| Model	DS-TL2002CI	DS-TL2000CI
Image		
Light Type	IR continuous light	IR continuous light
LED Lamp Beads	28	16
Color Temperature	-	-
Angle of Light	40°	40°
Effective Distance	16-25 m	16-25 m
Response Time	≤ 20 us	≤ 20 us
Day and Night Function	Support ambient brightness detection, automatic start-up at low illumination	Support ambient brightness detection, automatic start-up at low illumination
Brightness Control	Two grades of brightness control	-
Remote Control	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	-
Exception Detection	Supplement light output current is too large or too small	-
Service Life	≥ 50000 H	≥ 50000 H
Housing Material	Die-cast aluminum	Die-cast aluminum
Power Supply	220 VAC ±20%, 47Hz-63Hz	220 VAC ±20%, 47Hz-63Hz
Consumption	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
Operating Humidity	10%-90%, no condensation	10%-90%, no condensation
Water Proof Rating	IP65	IP66
Dimension	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 °)
Weight	6.28 kg	2.72 kg
Wave Length	≥ 850 nm (Infrared)	≥ 850 nm (Infrared)

Traffic Flow Detection System

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

> One camera covers 3-4 lanes of traffic flow detection and monitoring

> Great performance at night

> Easy to install

> Cost-effective

> Maximized storage space

> Built-in 77 GHz high-frequency radar combined with 4 MP camera, covering 200 meters and supporting 2-lane ANPR with a speed deviation of -4 km/h (iDS-TCD402-CR/12)

> System features Lane Flow, Average Vehicle Speed, Lane Traffic Status (Smooth, Slow, Congested), Lane Queue Length, Congestion Level, Time Headway, Space Headway, Time Occupancy, Space Occupancy, Vehicle Type (Large, Small, Motorcycle)

Front End

Traffic Flow
Camera

Network Cable

Traffic Server

Network Cable

Traffic Flow
Camera

Back End

Platform

Traffic Flow Detection Unit

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

Radar-Assisted Traffic Camera

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

Traffic Server

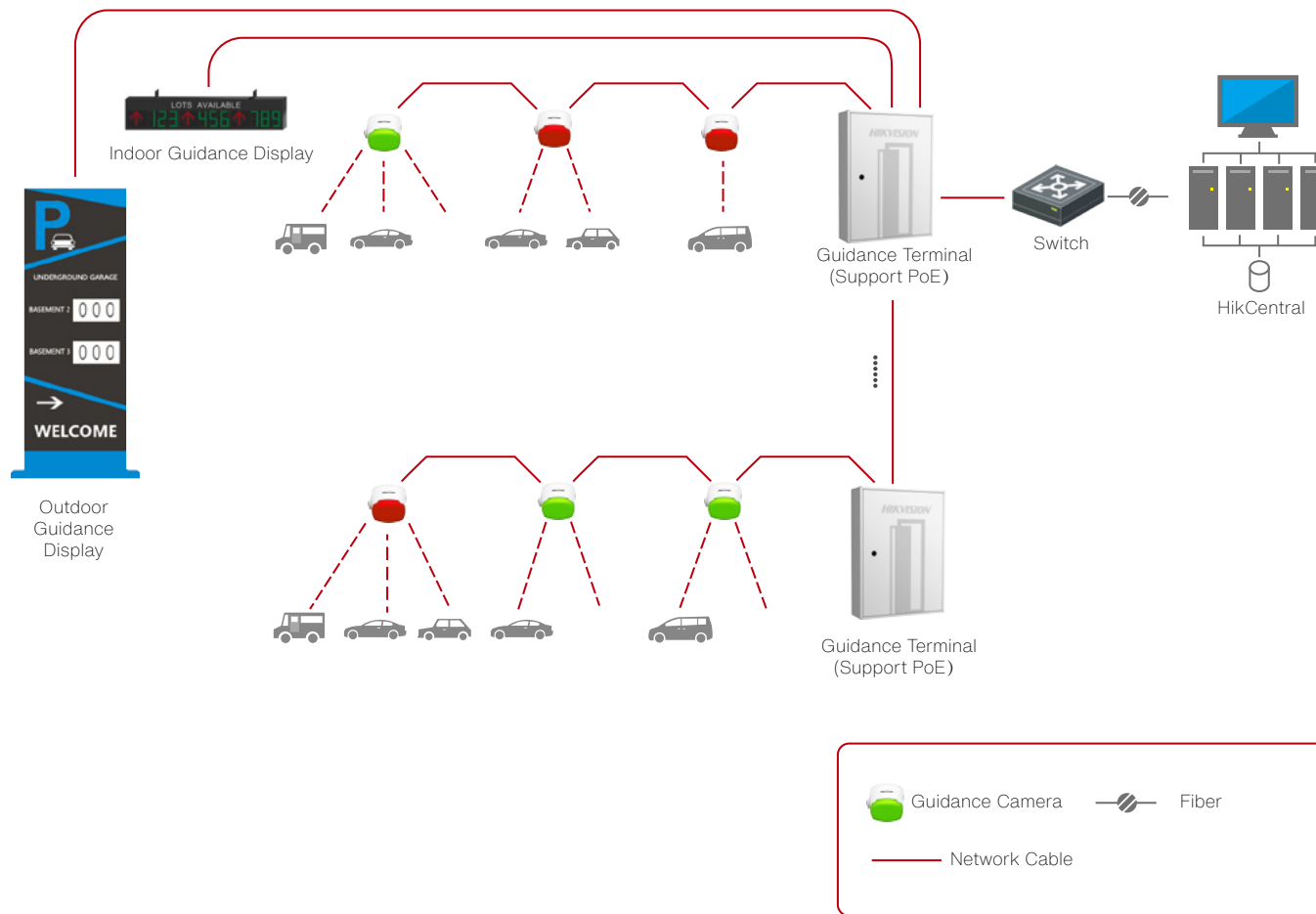|	
Model	DS-TP50-16E
Image	HOT
Processor	High-performance ARM A17 processor
Operation System	Embedded Linux operation system
Storage	4 SATA interfaces for 4 HDDs
Capacity	Up to 6 TB capacity for each HDD
Reset button	1
Indicator	4 x indicator (1 x Power Indicator, 1 x Alarm Indicator, 1 x HDD Indicator, 1 x Ready Indicator)
Network Interface	l16 x 1000 M Ethernet interface, 1 x internal 10/100/1000 M self-adaptive Ethernet interface, 1 x external 10/100/1000 M self-adaptive Ethernet interface, 1 x internal 1000 M fiber interface, 1 x external 1000 M fiber interface
Alarm Input	2 relay alarm inputs
Alarm Output	2 relay alarm outputs
Video	Stores videos. Storage duration depends on stream bitrate and HDD capacity
Uploading	Automatic Network Replenishment (ANR) and manual uploading
Network	2 IP addresses of different network segment are configurable
Power Supply	Adaptor of 12 VDC/12.5 A
Dimension (W × D × H)	370 × 273 × 102.5 mm (14.6 × 10.7 × 4.0 inch)
Working Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Working Humidity	10% to 90%

IIntelligent Traffic System

ITS Accessories

> **Cabinet**

　· Structure: Welded, strong, firm and reliable

> **Hoop & bracket support**

　· Material: Q235

Cabinet

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

Steel Hoop & Bracket

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

IIntelligent Traffic System
Video Parking Guidance System

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

> **Embedded ANPR with AI**

> **The indicator light inside the parking guidance camera has seven configurable colors, allowing for dynamic indication of the purpose or status of the parking bay**

> **Up to 6 single-lens parking guidance cameras or 4 dual-lens parking guidance cameras in cascaded connection for both power and network**

> **Up to 24-TB edge storage for video and images from 32 single-lens parking guidance cameras or 16 dual-lens parking guidance cameras**

> **Video, images and data can be stored locally offline if disconnected from central management software, preventing loss of critical information, then automatically forwarded to the CMS upon reconnection.**

> **By integrating an LED display panel at the entrance, all available parking resources and information can be easily displayed for customers.**

Indoor Guidance Display

Outdoor
Guidance
Display

Guidance Terminal
(Support PoE)

Switch

HikCentral

Guidance Terminal
(Support PoE)

Guidance Camera   Fiber

Network Cable

Parking Camera

Model	DS-TCP140-B	DS-TCP440-B	DS-TCP440-DB	DS-TCP440-BH	DS-TCP440-DBH
Image	HOT	HOT	HOT	HOT	HOT
Indicator LED	In integrated mode, red, green, yellow, blue, cyan and magenta colors can be indicated; In separation mode, up to 3 external indicators which can indicate red, green, yellow, blue, cyan and magenta colors can be connected; Support indicator flickering.				
Sensor	1/2.7" CMOS	1/3" CMOS	1/3" CMOS	1/1.8" CMOS	1/1.8" CMOS
Min. Illumination	Color: 0.0165 Lux @ (F2.0, AGC ON) B/W: 0.0092 Lux @ (F2.0, AGC ON)	Color: 0.012 Lux @ (F2.0, AGC ON) B/W: 0.00062 Lux @ (F2.0, AGC ON)	Color: 0.012 Lux @ (F2.0, AGC ON) B/W: 0.00062 Lux @ (F2.0, AGC ON)	Color: 0.000048 Lux @ (F1.6, AGC ON) B/W: 0.000022 Lux @ (F1.6, AGC ON)	Color: 0.000048 Lux @ (F1.6, AGC ON) B/W: 0.000022 Lux @ (F1.6, AGC ON)
Shutter	1 to 1/100,000 second	1 to 1/100,000 second	1 to 1/100,000 second	1 to 1/100,000 second	1 to 1/100,000 second
Lens	2.8 mm/ 4 mm	2.8 mm / 4 mm	2.8 mm	2.8 mm/ 4 mm	2.8 mm
Angle Adjustment	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°	Vertical: 0° to 30° Horizontal: -30° to 30°
Video Compression	H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG
Output Bit Rate	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps	32 Kbps to 16 Mbps
Max. Resolution	1280 × 1024	2560 × 1440	2560 × 1440 × 2	2688 × 1520	2688 × 1520 × 2
Frame Rate	30 fps (1280 × 1024)	30 fps (N)/25 fps (P)	15 fps (N)/15 fps (P)	30 fps (N)/25 fps (P)	15 fps (N)/15 fps (P)
Image Settings	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.	Brightness, contrast, saturation, etc. can be adjusted via client or IE browser.
Backlight Compensation	Support; Areas can be selected.	Support; Areas can be selected.	Support; Areas can be selected.	Support; Areas can be selected.	Support; Areas can be selected.
Storage	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD	NAS (iSCSI optional) Local storage: guidance terminal HDD
Protocol	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP and IPv6 optional)
General Functions	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization	Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization
Communication Interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3, external indicator interface (for -K model)	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3 × external indicator interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3, external indicator interface	2, RJ45 10 M/100 M self-adaptive Ethernet interface; 1, power interface; 3, external indicator interface
iBeacon	Standard iBeacon protocol	Standard iBeacon protocol	Standard iBeacon protocol	Standard iBeacon protocol	Standard iBeacon protocol
Working Temperature	-20 ℃ to +50 ℃ (-4 ℉ to 122 ℉)	-20 ℃ to +50 ℃ (-4 ℉ to 122 ℉)	-20 ℃ to +50 ℃ (-4 ℉ to 122 ℉)	-20 ℃ to +50 ℃ (-4 ℉ to 122 ℉)	-20 ℃ to +50 ℃ (-4 ℉ to 122 ℉)
Working Humidity	< 95% (no condensation)	< 95% (no condensation)	< 95% (no condensation)	< 95% (no condensation)	< 95% (no condensation)
Power Supply	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage	Hikvision PoE, or 12 to 24 VDC wide-range voltage
Consumption	6.5 W MAX	6.5 W MAX	10 W MAX	6.5 W MAX	10 W MAX
Dimensions	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	184 × 120 × 104 mm (7.2 × 4.7 × 4.1 inch)	170 × 120 × 104 mm (6.7 × 4.7 × 4.1 inch)	184 × 120 × 104 mm (7.2 × 4.7 × 4.1 inch)
Weight	500 g (1.1 lb)	500 g (1.1 lb)	500 g (1.1 lb)	500 g (1.1 lb)	500 g (1.1 lb)

Guidance Terminal

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

LED Display

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

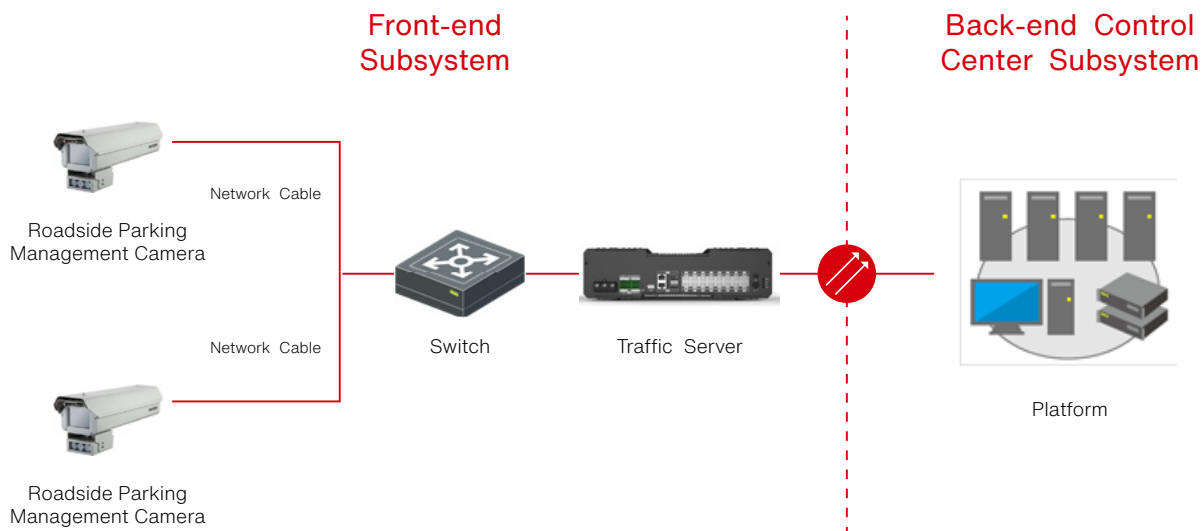| Model	DS-TVB200
Image	
Module Number	1-8
Communication Mode	RS485, RJ45
Pixel Composition of Module	1R1G Dual-color
Module Size	320 × 160 (mm)
Power Supply	220 VAC/110 VAC
Weight	75 kg
Dimension	700 × 3000 × 150mm (27.6 × 118.1 × 5.9 inch)

Intelligent Traffic System

Roadside Parking Management System

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

> Intelligent 4.2 MP CMOS camera

> Captures and recognizes parking vehicles via ANPR

> Supports max. 64 GB TF card

> Supports Automatic Network Replenishment (ANR)

> Covers four parking spaces with one camera and eight parking spaces with two cameras

Front-end Subsystem

Back-end Control Center Subsystem

Roadside Parking Management Camera

Network Cable

Network Cable

Roadside Parking Management Camera

Switch

Traffic Server

Platform

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

Mobile & Traffic Range

H2 2021

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