

iDS-TCV5(9)07-BIR C High Performance All-Rounder Traffic Camera













- 5 MP (2/3" GMOS), 2464 × 2056 @ 50 fps
- 9 MP (1" GMOS), 4096 × 2160 @ 25 fps
- Color: 0.001 Lux @ (F1.4, AGC ON)
- H.265, H.264, MJPEG
- 60 dB SNR
- 3D DNR
- Alarm I/O
- One RS-485 interface
- Two defined streams
- Built-in Micro SD/TF card, up to 128 GB

- License plate recognition
- Vehicle type recognition
- Vehicle color recognition
- Supports speed detection with built-in 24 GHz radar
- Support speed detection based on video frames
- Built-in IR light with 16 beads
- IP65
- Over 98% detection sensitivity
- Over 98% LPR accuracy
- Supports side mounting with convenient







Superiority

- Dedicated camera for ANPR
 - > HD resolution
 - ➤ Integrated IR
 - Professional shutter speed control
- Built-in ANPR engine, equipped with deep-learning algorithm
- Built-in radar, supporting speed detection
- Multiple detection and recognition
 - ➤ Vehicle type recognition
 - > Vehicle color recognition
 - > Vehicle manufacturer recognition
 - Radar speed detection
 - Driving on lane line detection
 - > Illegal lane change detection
 - Wrong-way driving detection
 - > Seatbelt status detection
 - Phone call detection

Application

- Vehicle control
- Traffic monitoring
- Toll collection
- Security
- Speed detection

Scenarios

- Highway
- Tunnel
- Toll station
- Urban road









Specification

Camera	iDS-TCV507-BIR C	iDS-TCV907-BIR C	
Image Sensor	5 MP (2/3" GMOS)	9 MP (1" GMOS)	
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON), 0.0005 Lu	x with IR	
Shutter Speed	50 to 20,000 μs		
Day & Night	IR cut filter		
Digital Noise Reduction	2D/3D DNR		
SNR	60 dB		
Lens			
Focal Length	15 to 50 mm	11 to 40 mm	
Aperture	F1.4-C	F1.6-25	
Focus	Manual		
	CS-Mount	CS-Mount	
FOV	Horizontal: 42.7° to 13.7°	Horizontal: 62° to 23.6°	
	Vertical: 23.4° to 7.6°	Vertical: 32.2° to 12.2°	
IR Light			
Light Beads	16		
IR Range	Up to 40 m	Up to 40 m	
Wavelength	850 nm		
Radar	DS-TD10M - 1		
Central Frequency	24.05 to 24.25 GHz		
Antenna Beam Width	35° × 16°		
Measurement Accuracy	± 1 km/h till 100km/h; ±1% km/h between 100-250km/h		
Trigger Consistency	± 1 km/n till 100km/n; ±1% km/n between 100-250km/n ≤ ± 1 m		
Velocity Range			
Double Trigger	Approaching direction, leaving direction, and	10 to 250 km/h	
Multiple Lanes	Up to 2 lanes Up to 4 lanes		
Tracking Target	Up to 32	op to 4 lanes	
Compression Standard	OF 10 32		
Video Compression	Main stream: H.265/H.264/MJPEG Sub-stream: H.265/H.264/MJPEG		
H.264 Type	Baseline profile/Main profile/High profile		
Н.265 Туре	Baseline profile/Main profile/High profile		
Video Bit Rate	32 Kbps to 16 Mbps		
Smart Feature			
Recognition	License plate recognition		
Coverage	Up to 2 lanes	Up to 4 lanes	
Trigger Mode	External I/O trigger/Radar trigger/Video trigger		
Supplement Light Type	External strobe/flash/continuous light		
Smart Function	Vehicle type classification, color identification, no-plate vehicle capture, vehicle driving direction detection		
Road Traffic and Vehicle Detection			



Middle East: The United Arab Emirates (Abu Dhabi, Ajman, Dubai, Fujairah, Ras Al Khaimah, Sharjah and Umm Al Quwain), Qatar, Iran, Iraq, Egypt, Jordan, Kuwait, Saudi Arabia, Pakistan, Oman, Lebanon, Bahrain Africa: Nigeria, Kenya, Nory Coast, South Africa, Tanzania, Mauritus, Morocco, Tunisia, Sierra Leone, Zambia, Ginana, Zimbabwe, Uganda, Angola, Ethiopia, Senegal, Algoria Asia-Padific: Australia, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Burma, India, Mongolia, Cambodia, Laos, Bangiadesh America: The United States of America, Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia, Brazil, Ecuador, Peru, Mexico, Panama, Costa Rica, Trinidad and Tobago, the Dominican Republic, Guatemala Europe: Turkey, Croatia, Slovaka, Czech Republic, Bulgaria, the Republic of North Macedonia, Hungay, Grecce, Poland, France, Netherlanda, Switzerland, Spain, the UK Irahad, Germany, Italy, Austria, Israel, Palesthinan State, Belgium, Luxembourg, Albania, Kosovo Russian-Speaking Regions: Azerbaijan, Belgius, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russia, Ukraino, Moldova, Uzbekstan, Kyrgyzstan, Armenia Capturerate > 99% Vehicle moving direction recognition accuracy > 99% Under recommended in the Capture of the Capt			
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European and Russian-Speaking Regions: LPR accuracy > 98% Country/Region recognition accuracy > 95% No License Plate Detection Supported	,		
LPR accuracy > 98% Country/Region recognition accuracy > 95% No License Plate Detection Supported Motorcycle LPR Supported Vehicle Type Car/Van/Bus/Truck/Light Truck/SUV/MPV/Pickup/Pedestrian/Motorcycle/Tricycle Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black Recognizable at daytime only 84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford, Isuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, Kia-Borrego, Chang'an, Alfa, FORO License Plate Color Recognition Customized to support Driving on Lane Line Detection Supported (Only for strobe light mode) Illegal Lane Change Detection Supported (Only for strobe light mode) Emergency Lane Occupation Supported (truck forbidden lane, emergency lane, urban bus lane)			
Country/Region recognition accuracy > 95% No License Plate Detection Supported Motorcycle LPR Supported Vehicle Type Car/Van/Bus/Truck/Light Truck/SUV/MPV/Pickup/Pedestrian/Motorcycle/Tricycle Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black Recognizable at daytime only 84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford, Isuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Soda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, Kia-Borrego, Chang'an, Alfa, FORO License Plate Color Recognition Customized to support Driving on Lane Line Detection Supported (Only for strobe light mode) Wrong-Way Driving Detection Supported (Iruck forbidden lane, emergency lane, urban bus lane)	conditions)	, , , , , , , , , , , , , , , , , , , ,	
Motorcycle LPR Supported Car/Van/Bus/Truck/Light Truck/SUV/MPV/Pickup/Pedestrian/Motorcycle/Tricycle Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black Recognizable at daytime only 84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford, Isuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, Kia-Borrego, Chang'an, Alfa, FORO License Plate Color Recognition Customized to support Driving on Lane Line Detection Supported (Only for strobe light mode) Illegal Lane Change Detection Supported Supported Supported (truck forbidden lane, emergency lane, urban bus lane)			
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Vehicle TypeCar/Van/Bus/Truck/Light Truck/SUV/MPV/Pickup/Pedestrian/Motorcycle/TricycleVehicle ColorRed, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black Recognizable at daytime only84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford, Isuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, 	Motorcycle LPR	Supported	
Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, silvery, dark grey, black Recognizable at daytime only	Vehicle Type		
Vehicle ColorRecognizable at daytime only84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford, Isuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, Kia-Borrego, Chang'an, Alfa, FOROLicense Plate Color RecognitionCustomized to supportDriving on Lane Line DetectionSupported (Only for strobe light mode)Illegal Lane Change DetectionSupported (Only for strobe light mode)Wrong-Way Driving DetectionSupportedEmergency Lane OccupationSupported (truck forbidden lane, emergency lane, urban bus lane)			
BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, Kia-Borrego, Chang'an, Alfa, FORO License Plate Color Recognition Customized to support Driving on Lane Line Detection Supported (Only for strobe light mode) Wrong-Way Driving Detection Supported Supported Supported (truck forbidden lane, emergency lane, urban bus lane)	vehicle Color		
Driving on Lane Line Detection Supported (Only for strobe light mode) Supported (Only for strobe light mode) Wrong-Way Driving Detection Supported Supported Supported (truck forbidden lane, emergency lane, urban bus lane)	Vehicle Manufacturer	BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben	
Illegal Lane Change Detection Supported (Only for strobe light mode) Wrong-Way Driving Detection Supported Emergency Lane Occupation Supported (truck forbidden lane, emergency lane, urban bus lane)	License Plate Color Recognition	Customized to support	
Wrong-Way Driving Detection Supported Emergency Lane Occupation Supported (truck forbidden lane, emergency lane, urban bus lane)	Driving on Lane Line Detection	Supported (Only for strobe light mode)	
Emergency Lane Occupation Supported (truck forbidden lane, emergency lane, urban bus lane)	Illegal Lane Change Detection	Supported (Only for strobe light mode)	
	Wrong-Way Driving Detection		
Seatbelt Detection Supported (with flash supplement light SL-1211-1I)	Emergency Lane Occupation		
	Seathelt Detection	Supported (with flash supplement light SL-1211-1I)	





Phone Call Detection	Supported (with flash supplement light SL-12	Supported (with flash supplement light SL-1211-1I)		
Capture Speed Range	10 to 250 km/h	10 to 250 km/h		
Image				
Max. Resolution	2464 × 2056	4096 × 2160		
Main Stream	50 Hz: 50 fps (2448 × 2048, 2464 × 2056, 2048 × 1536, 1920 × 1080) 60 Hz: 30 fps(2448 × 2048, 2464 × 2056, 2048 × 1536, 1920 × 1080)	50 Hz: 25 fps (4096 × 2160, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (4096 × 2160, 1920 × 1080, 1280 × 720)		
Sub-Stream	1920 × 1080, 1280 × 720, 704 × 576, 352 × 288	1920 × 1080, 704 × 576		
Image Enhancement	BLC, HLC, 3D DNR			
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser.	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser.		
SVC	H.264 and H.265 encoding	H.264 and H.265 encoding		
Day/Night Switch	Auto/Scheduled/Triggered by alarm in	Auto/Scheduled/Triggered by alarm in		
Picture Overlay	Logo picture can be overlaid on video with 12	Logo picture can be overlaid on video with 128 × 128 24-bit bmp format.		
Network				
Network Storage	Micro SD/TF card (128 GB), local storage and CVR, NVR, ANR			
Alarm Trigger	HDD error, network disconnected, IP address conflicted, vehicle detector exception, traffic light detector exception			
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP			
Security Measures	Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS			
General Function	One-key reset, three streams, heartbeat, password protection, watermark			
API	ISAPI, SDK			
Simultaneous Live View	Up to 6 channels			
User/Host	Up to 32 users 3 user levels: administrator, operator, and user			
Client	iVMS-4200 (Only for live view and LPR informa	iVMS-4200 (Only for live view and LPR information search), Hik-Central Master, Hik-Central Pro		
Web Browser	IE8 to IE11, plug-in free live view supported			
Interface				
Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ether 1 RS-485 interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet interface 1 RS-485 interface		
Alarm	6 output interfaces			
On-Board storage	Built-in micro SD/TF card, up to 128 GB			
GPS	Optional			
Temperature Sensor	Optional			
General				
Firmware Version	V4.3.2	V4.3.2		
Operating System	Linux			
Working Temperature	-30 °C to 70 °C (-22 °F to 158 °F)			
Working Humidity	95% or less (non-condensing)			
Power Supply	100 to 240 VAC (with power adapter, by default) 36 VDC ± 20% (without power adapter)			
Protection Level	IP65			
Heater	Supported			
Material	Aluminum alloy			







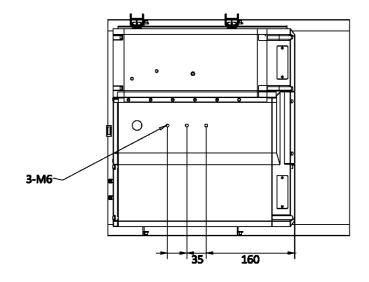
Dimension	With package: 375 × 372 × 141 mm (14.8 × 14.6 × 5.6 inch)
Weight	Approx. 7.2 kg (15.9 lb.)
Power Consumption	< 70 W

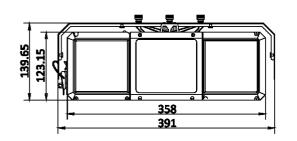
Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

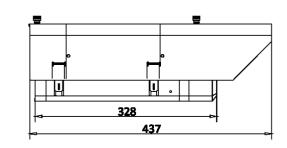
杭州海康威视科技有限公司 HANGZHOU HIKVISION TECHNOLOGY CO.LTD.



Dimension







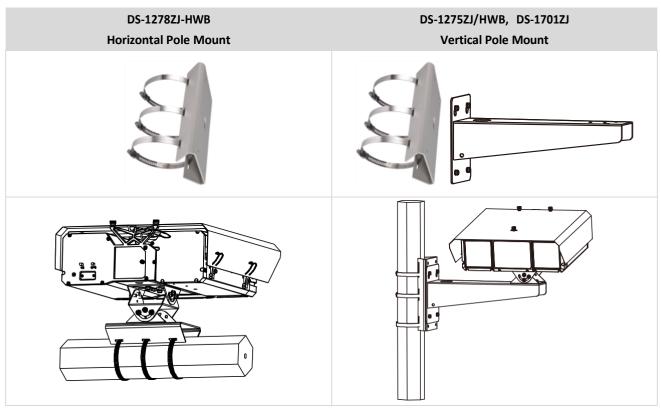
Unit: mm

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杭州海康威视科技有限公司 HANGZHOU HIKVISION TECHNOLOGY CO.LID.



Accessory



Distributed by

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