

iDS-TCV900-BI/iDS-TCV500-BI High Performance ANPR Capture Unit



DeepinView

- 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
- Box camera type with housing for outdoor application
- Two defined streams
- Built-in micro SD/TF card, up to 128 GB
- License plate recognition (LPR)
- Vehicle type recognition
- Vehicle color recognition
- Vehicle manufacturer recognition
- Detection sensitivity: > 98%
- LPR accuracy: > 98%



Superiority

- Dedicated camera for ANPR
 - HD resolution
 - Professional shutter speed control
- Built-in ANPR engine, equipped with deep learning algorithm
- Capable of recognizing multiple features and detecting multiple violations
 - 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 detection
 - Phone call detection

Application

- Vehicle control
- Traffic monitoring
- Toll collection
- Security

Scenarios

- Highway
- Tunnel
- Toll station
- Urban road



Specification

| Camera | iDS-TCV500-BI | iDS-TCV900-BI | |
|------------------------------------|--|--|---|
| Image Sensor | 5 MP (2/3" GMOS) | 9 MP (1" GMOS) | |
| Min. Illumination | Color: 0.001 Lux@(F1.4, AGC ON), 0.0005 Lux with IR | | |
| Shutter Speed | 50 μs to 20,000 μs (1/50 s to 1/20,000 s) | 50 μs to 50,000 μs (1/20 s to 1/20,000 s) | |
| 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 | 25 mm |
| Aperture | F1.4-C | F1.6-25 | F1.4 |
| Focus | Manual | | |
| FOV | CS-Mount Horizontal: 42.7° to 13.7° Vertical: 23.4° to 7.6° | CS-Mount Horizontal: 62° to 23.6° Vertical: 32.2° to 12.2° | CS-Mount Horizontal: 31°, Vertical: 16.9° |
| IR Light | | | |
| IR Range | Up to 30 m | Up to 27 m | |
| Wavelength | 850 nm | | |
| Compression Standard | | | |
| 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 | | |
| H.265 Type | 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 | 2 to 3 lanes | |
| Trigger Mode | External I/O trigger/Radar trigger/Video trigger | | |
| Supplement Light Type | External strobe/flash/solid light | | |
| Smart Function | Vehicle type classification, vehicle color recognition, no-plate vehicle capture, moving direction detection | | |
| Road Traffic and Vehicle Detection | | | |
| Country/Region | 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, Ivory Coast , South Africa, Tanzania, Mauritius, Morocco, Tunisia, Sierra Leone, Zambia, Ghana, Zimbabwe, Uganda, Angola, Ethiopia, Senegal, Algeria Asia-Pacific: Australia, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Burma, India, Mongolia, Cambodia, Laos, Bangladesh 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, Slovakia, Czech Republic, Bulgaria, the Republic of North Macedonia, Hungary, Greece, Poland, France, Netherlands, Switzerland, Spain, the UK, Ireland, Germany, Italy, Austria, Israel, Palestinian State, Belgium, Luxembourg, Albania, Kosovo Russian-Speaking Regions: Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia | |
| Accuracy (Under recommended installation and lighting conditions) | Capture rate > 98% Vehicle moving direction recognition accuracy > 98.5% LPR accuracy > 98% Mistaken capture rate < 2% | |
| | European and Russian-Speaking Regions: 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 | |
| Vehicle Color | Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black Recognizable at daytime only. | |
| Vehicle Manufacturer | 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 in strobe light mode) | |
| Illegal Lane Change Detection | Supported (only in strobe light mode) | |
| Wrong-way Driving Detection | Supported | |
| Emergency Lane Occupation | Supported (truck forbidden lane, emergency lane, urban bus lane) | |
| Seatbelt Detection | Supported (with flash supplement light) | |
| Phone Call Detection | Supported (with flash supplement light) | |
| Capture Speed Range | 5 to 250 km/h | |
| Image (each stream can be individually configured) | | |
| Max. Resolution | 2464 × 2056 | 4096 × 2160 |
| Main Stream | 50 Hz: 25 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 | 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) | 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) |
| 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 | |
| Day/Night Switch | Auto/Scheduled/Triggered by alarm in | |
| Picture Overlay | 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, NAS (NFS, SMB/CIFS). | |
| 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, digest authentication for ONVIF (Version 2.1), IP address filter. | |
| General Function | One-key reset, three streams, heartbeat, password protection, watermark | |
| API | ONVIF (Version 2.1, PROFILE S, PROFILE G), ISAPI, SDK | |
| Simultaneous Live View | Up to 6 channels | |
| User/Host | Up to 32 users 3 user levels: administrator, operator, and user | |
| Client | iVMS-8600, iVMS-4200 (Only for video live view and LPR information search), Hik-Central Master, Hik-Central Pro | |
| Web Browser | IE8-IE11, plug-in free live view supported | |
| Interface | | |
| Communication Interface | 2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interfaces 3 RS-485 interfaces (half duplex, HIKVISION) 1 RS-232 interface | |
| Alarm | 2 input interfaces (T1, SYNC), 7 output interfaces | |
| On-board storage | Built-in micro SD/TF card, up to 128 GB | |
| USB Interface | 1 USB 2.0 interface | |
| General | | |
| Firmware Version | V4.3.1 | |
| Operating System | Linux | |
| Certifications | CE, FCC, RoHS | |
| Operating Conditions | Temperature: -40 °C to 60 °C (-40 °F to 140 °F) Humidity: 95% or less (non-condensing) | |
| Power Supply | 24 VDC ± 20%/100 to 240 VAC (Power Supply fully replaceable embedded) | |
| Protection Level | IP66, IK10 | |
| Heater | Supported | |
| Material | Aluminum alloy | |
| Dimensions | With package: 175.68 × 137.5 × 443.99 mm (6.92" × 5.41" × 17.48") | |
| Weight | Camera: approx. 6.5 ± 0.5 kg (14.3 ± 1.1 lb) | |
| Power Consumption | < 30 W | |

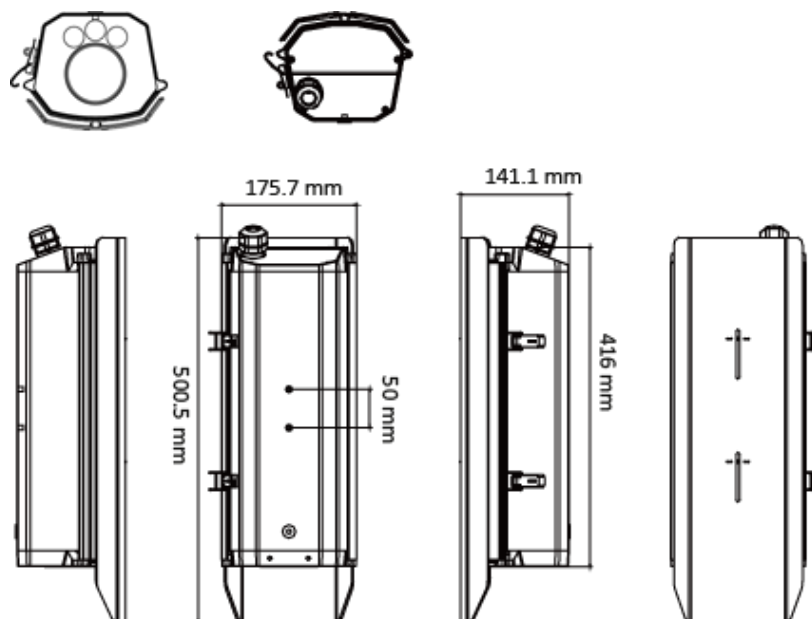
* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

iDS-TCV900-BI

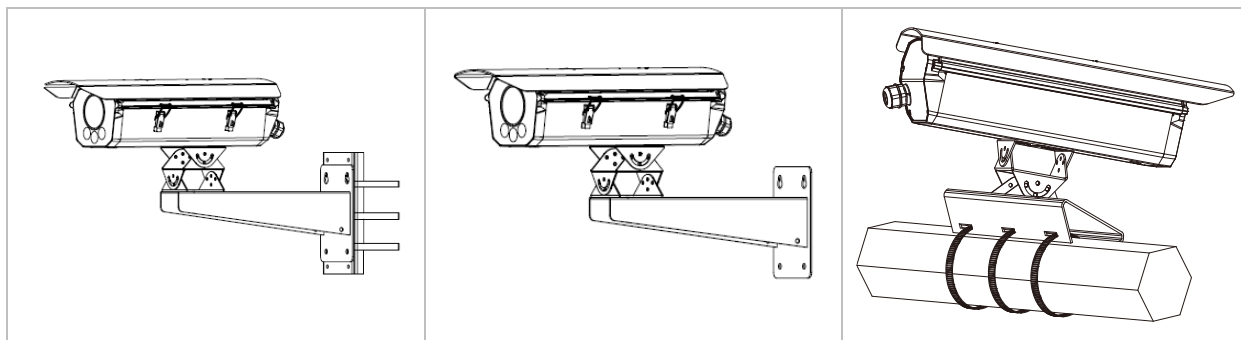
iDS-TCV500-BI

Dimension



Accessory

| DS-1275ZJ/HWB DS-1701ZJ/HWB Vertical Pole Mount | DS-1701ZJ/HWB Wall Mount | DS-1278ZJ/HWB Horizontal Pole Mount |
|---|-----------------------------|--|
| | | |



Distributed by



HIKVISION®

Headquarters

No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
overseasbusiness@hikvision.com

Hikvision USA
T +1-909-895-0400
sales.usa@hikvision.com

Hikvision Australia
T +61-2-8599-4233
salesau@hikvision.com

Hikvision India
T +91-22-28469900
sales@pramahikvision.com

Hikvision Canada
T +1-866-200-6690
sales.canada@hikvision.com

Hikvision Thailand
T +662-275-9949
sales.thailand@hikvision.com

Hikvision Europe
T +31-23-5542770
sales.eu@hikvision.com

Hikvision Italy
T +39-0438-6902
info.it@hikvision.com

Hikvision Brazil
T +55 11 3318-0050
Latam.support@hikvision.com

Hikvision Turkey
T +90 (216)521 7070- 7074
sales.tr@hikvision.com

Hikvision Malaysia
T +601-7652-2413
sales.my@hikvision.com

Hikvision UK & Ireland
T +01628-902140
sales.uk@hikvision.com

Hikvision South Africa
Tel: +27 (10) 0351172
sale.africa@hikvision.com

Hikvision France
T +33(0)1-85-330-450
info.fr@hikvision.com

Hikvision Kazakhstan
T +7-727-9730667
nikia.panfilov@hikvision.ru

Hikvision Vietnam
T +84-974270888
sales.vt@hikvision.com

Hikvision UAE
T +971-4-4432090
salesme@hikvision.com

Hikvision Singapore
T +65-6684-4718
sg@hikvision.com

Hikvision Spain
T +34-91-737-16-55
info.es@hikvision.com

Hikvision Tashkent
T +99-87-1238-9438
uzb@hikvision.ru

Hikvision Hong Kong
T +852-2151-1761
info.hk@hikvision.com

Hikvision Russia
T +7-495-669-67-99
saleru@hikvision.com

Hikvision Korea
T +82-(0)31-731-8817
sales.korea@hikvision.com

Hikvision Poland
T +48-22-460-01-50
info.pl@hikvision.com

Hikvision Indonesia
T +62-21-2933759
Sales.Indonesia@hikvision.com

Hikvision Colombia
sales.colombia@hikvision.com