

iDS-TCM203-A

2 MP ANPR Ultra-Low Light Bullet Camera

**DARKFIGHTER**



**M** smart IPC

The ANPR series ultra-low light smart cameras are able to capture vehicle and recognize vehicle license plate of various countries and regions in dim light environment. It offers high resolution, 120dB WDR, Auto-iris, PoE, Defog, EIS, 3D DNR, etc., to meet a wide variety of applications.

- 1/1.8" Progressive Scan CMOS
- 1920 × 1080 @ 60fps 60HZ 50fps 50HZ
- Ultra-low light
- 120dB WDR
- IP67, IK10
- IR illuminator 850nm
- ANPR Capture rate > 99% (certain countries and regions)
- ANPR recognition rate > 98% (certain countries and regions)



## Function Description

### Vehicle Detection and LPR

- Support countries and regions of Mid-East, Africa, Asia-Pacific, America, Europe and Russian-speaking countries.
- In Europe and Russian-speaking regions, capture rate exceeds 99%, recognition rate exceeds 98%.

### Smart

- Smart recording: support edge recording and dual-VCA
- Smart encoding: support low bit rate, low latency, ROI enhance encoding

### Image

- 1920 × 1080 @60fps
- Support auto iris, DC-drive
- Support rotate mode, suitable for environment as corridor
- Support target cropping, details can be seen with low bandwidth
- Streaming smoothness setting for different requirements of image quality and fluency
- Support H.264+/H.264/MPEG4/MJPEG video compression, multi-level video quality configuration; support Baseline Profile/Main Profile/High Profile H.264 encoding complexity.
- Multiple OSD color: Black & white self-adaptive; Custom
- 120dB WDR is supportable for backlight environment
- Support defog, BLC, EIS, 3D DNR

### System

- Support ONVIF (profile S/profile G), ISAPI protocol, Hikvision SDK, ISAPI management
- Compatible with Hikvision NVR (I-serie), with Terminal Server and with Hikcentral
- FTP picture upload with capture metadata, TCP/IP capture notification, HTTP notification(customization)
- Support up to 5 lists, digital output control based on list events and ISAPI management of lists
- Support context camera management (optional)
- Support linked cam function (with two iDS-TCM) to get context picture less than 300ms delayed than ANPR picture
- Support two streams, and support 20 channels live view at the same time
- Lightning protection, surge protection, voltage transient protection, anti-static protection

### Interface

- Support standard 128 G TF card storage
- Support 10M/100M Ethernet port
- Support Alarm I/O (-S)

### Security

- Support three-level user authentication management, user and password authorization, and IP address filtering
- Support security certificate as HTTPS
- Lock user IP after certain times failed login attempts

### General

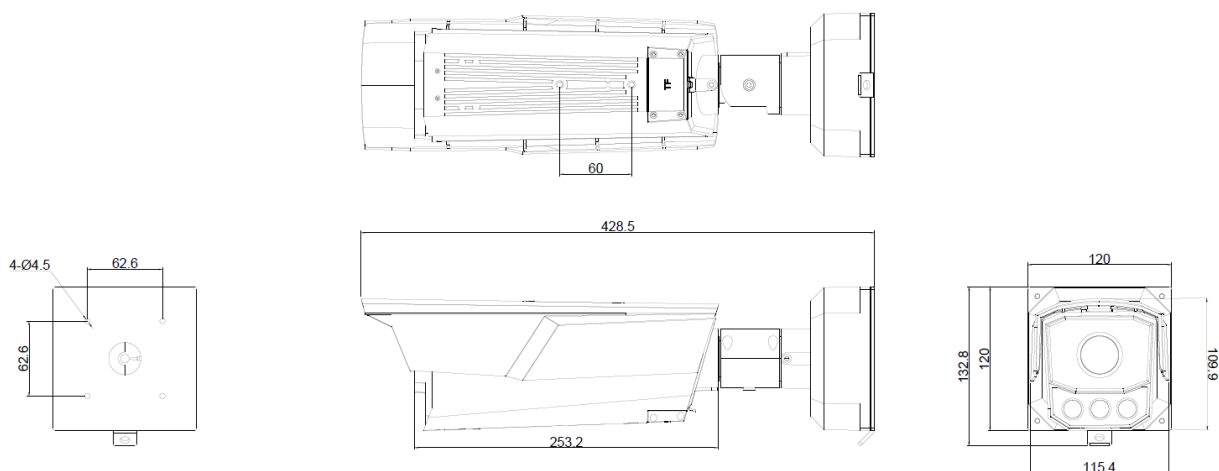
- Vandal proof IK10, Protection index IP67
- Power supply 24VDC, 12VDC, HiPoE (802.03at), PoE (802.03af) with external PoE splitter

## Specifications

<b>Camera</b>	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s, supports slow shutter
Lens	3.8 mm to 13 mm, F1.4, horizontal field of view: 92° to 32° 8 mm to 32 mm, F1.6, horizontal field of view: 42° to 13.5°
Auto-iris	DC drive
Day & Night	IR cut filter with auto switch
Low sunlight compensation	Auto optimize the picture quality in order to get the license plate capture in case of low sunlight condition and to avoid picture saturation
Digital Noise Reduction	3D DNR
WDR	120dB
<b>Compression Standard</b>	
Video Compression	Main stream: H.264/MPEG4/ <b>H.265</b> Sub stream: H.264/MPEG4/MJPEG/ <b>H.265</b> Third stream: H.264/MPEG4/MJPEG/ <b>H.265</b>
H.264 Type	Baseline Profile/Main Profile/High Profile
<b>H.265</b>	<b>Support</b>
Video Bit Rate	32 Kbps to 16 Mbps
<b>Image</b>	
Max. Resolution	1920 × 1080
Main Stream Max. Frame Rate	50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub Stream Max. Frame Rate	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Third Stream Max. Frame Rate	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Image Enhancement	BLC /3D DNR/Defog/EIS
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser
Region of Interest	Support 4 fixed region for each stream, and dynamic tracking
Target Cropping	Support
Day/Night Switch	Auto/Schedule/Triggered by Alarm In (-S)
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
<b>Road Traffic and Vehicle Detection</b>	
Accuracy	<b>License Plates of Europe and Russian-speaking countries:</b> Capture Rate > 99% Recognition Rate > 98%
Vehicle Speed	8-32mm: Support vehicle speed under 165 km/h (102.5 mi/h) 3.8-13mm: Support vehicle speed under 80 km/h (49.7 mi/h)
Lane number	Support 1 lane detection
Direction	Support capture and recognition of vehicles both approaching and leaving
Whitelist and Blacklist	Up to 50,000 license plate in the list (requires the SD card installed), supports up to 5 lists lists and ISAPI list management
Countries and Regions	<b>Mid-East:</b>

	<p>Turkey, United Arab Emirates, Qatar, Iran, Iraq, Morocco, Egypt, Jordan, Kuwait, Saudi Arabia, Tunisia, Palestine, Pakistan</p> <p><b>Africa:</b> South Africa, Kenya, Nigeria, Tanzania, Mauritius</p> <p><b>Asia-Pacific:</b> Australia, Mauritius, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Burma, Japan, India, Mongolia</p> <p><b>America:</b> United States of America, Colombia, Brazil, Ecuador, Peru, Mexico</p> <p><b>Italy:</b> Support all civil license plates in different formats and for different vehicle types including vintage format, Military license plates, Police license plate</p> <p><b>Europe:</b> Slovakia, Spain, France, Germany, Poland, France, Czech Republic, Netherlands, Denmark, Luxembourg, Greece, Albania, Bosnia and Herzegovina, Ireland, Malta, Sweden, Switzerland, Portugal, Macedonia, Croatia, Finland, United Kingdom, Romania, Serbia, Bulgaria, Norway, Israel, Hungary, Austria, Vatican City State, Cyprus, Iceland, Slovenia, Turkey, Montenegro</p> <p><b>Russian-Speaking Countries:</b> Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Armenia, Russian Federation, Ukraine, Moldova, Belarus, Turkmenistan, Uzbekistan</p>
<b>Network</b>	
Network Storage	Support microSD/SDHC/SDXC card (128GB), local storage and NAS (NFS,SMB/CIFS), ANR to buffer the captured picture in case of FTP or TCP transmission
Alarm Trigger	Road traffic, motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6
General Function	One-key reset, anti-flicker, three streams, heartbeat, password protection, privacy mask, watermark, IP address filter, mirror
Standard and Compatibility	ONVIF (profile S, profile G), ISAPI, Hikvision SDK, ISAPI management. Compatible with Hikvision NVR (I-serie), Super NVR and with HikCentral. FTP picture upload with capture metadata in multiple modes, TCP/IP capture notification, http notification
<b>Interface</b>	
Communication Interface	1 RJ45 10M/100M Ethernet port
Alarm IO	1 input, 1 output
Serial Port	2 RS-485 ports, 1 RS-232 port
Video Output	1Vp-p composite output (75 Ω/BNC)
On-board storage	Built-in TF Card , up to 128GB
Reset Button	Yes
<b>General</b>	
Power Supply	24Vdc, 12Vdc, Hi-PoE (802.03at), PoE (802.03af) with external PoE splitter
IR	850 nm IR wavelength, up to 50 meters for 3.8 to 13 mm lens, up to 100 m for 8 to 32 mm lens
Heater	Support
Protection	IP67
Impact protection	Vandal proof IK10
Dimensions	120 × 132.8 × 428.5 mm (4.72 × 5.23 × 16.87 inch)
Weight	Approx. 3.12 ± 0.5 kg (6.88 ± 1.1 lb)

## Dimensions



## Accessories



DS-1275ZJ/HWB  
Vertical Pole Mount

## Available models

iDS-TCM203-A/3813

iDS-TCM203-A/0832



## Pictures Demonstration



Location:Targasystem-back Capture Time:2017-11-07 09:50:55.912 Plate No:EG443MY



7-12-04 17:57:20.543 Plate No:19331



Lane No:02 Capture Time:2017-12-04 18:00:36.146 Plate No:888603 vehicle color:lightblack vehicle type:bus



Capture Time:2018-01-29 14:03:46 Lane No:01 Plate No:648191

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