HIKVISION®

iDS-TCM403-AFR
High Performance ANPR Bullet Camera

DarkFighter

DeepinView

H.265 | V smart 60FPS | WDR | 3D DNR | IP67 | 🚗 | SD | Motorized

V smart IPC

The ANPR series ultra-low light smart cameras are able to capture vehicle and recognize vehicle number plate of various countries and regions in dim light environment.It offers high resolution, 140dB WDR, Auto-iris, PoE, Defog, EIS, 3D DNR, etc., to meet a wide variety of applications.

- ANPR Capture rate > 99% (certain countries and regions)
- ANPR recognition rate > 98% (certain countries and regions)
- Classification: Truck, Car, Bus, Van, Motorbike
- KEMLER / ONU codes recognition

ADR

- 1/1.8" progressive scan CMOS
- 50 Hz: 2688 × 1520 @ 25 fps
- 60 Hz: 2688 × 1520 @ 30 fps
- Color: 0.001 Lux @ (F1.2, AGC ON), 0.0005 Lux with IR
- H.265, H.264
- 140 dB WDR
- 3D DNR
- Alarm I/O
- 1 RS-485 interface, wiegand interface
- IR illuminator 850nm range up to 100 m
- Two defined streams
- Built-in microSD/TF card, up to 128G
- License Plate Recognition
- IP67, IK10

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Superiority

- Dedicated camera for ANPR
  - HD resolution
  - Integrated IR
  - Professional shutter speed control
- Built-in ANPR engine, equipped with AI algorithm

Application

- Traffic monitoring
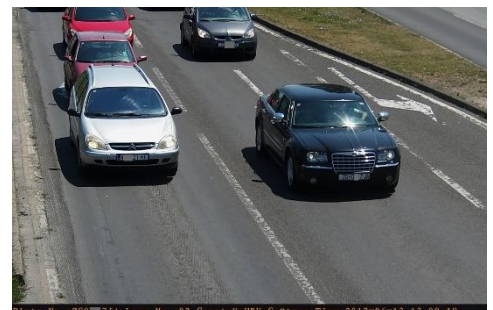- Toll collection
- Security

Scenarios

- Tunnel
- Toll station
- Urban road

Smart Function

- Support vehicle type classification
- Support vehicle color identification
- Support no-plate vehicle capture
- Support driving direction detection
- Support motorcycle capture
- Support ADR(KEMLER/ONU codes) recognition

Specification

Camera	iDS-TCM403-AFR/0832
Image Sensor	1/1.8″ progressive scan CMOS
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON), 0.0005 Lux with IR
Shutter Speed	1/25 s to 1/100,000 s
Slow Shutter	Supported
Day & Night	IR cut filter
Digital Noise Reduction	3D DNR
WDR	140 dB
Lens	
Focal Length	8-32 mm
Aperture	F1.63-1.8
Focus	Auto
Auto-iris	DC drive
FOV	Horizontal FOV: 39.7° to 15.9°; Vertical FOV: 22.3° to 9.1°; Diagonal FOV: 45.8° to 18.1°
IR	
IR View Range of Camera	Up to 100 m
Wavelength	850 nm
Compression Standard	
Video Compression	Main stream: H.265/H.264/MJPEG Sub-stream: H.265/H.264/MJPEG Third 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
Audio Compression	G.711/G.722.1
Audio Bit Rate	8Kbps (G.711) /16Kbps (G.722.1)
Smart Feature	
Recognition	License Plate Recognition
Smart Function	Vehicle type classification, color identification, no-plate vehicle capture, vehicle driving direction detection, ADR recognition
Road Traffic and Vehicle Detection	

Countries/Regions	**Mid-East:**
	Turkey, United Arab Emirates, Qatar, Iran, Iraq, Egypt, Jordan, Kuwait, Saudi Arabia, Tunisia, Palestine, Pakistan
	Africa:
	South Africa, Kenya, Nigeria, Tanzania, Mauritius, Morocco
	Asia-Pacific:
	Australia, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Burma, Japan, India, Mongolia
	America:
	United States of America, Colombia, Brazil, Ecuador, Peru, Mexico
	Europe:
	Croatia, Slovenia, Bosnia and Herzegovina, Serbia, Montenegro, Slovakia, Czech Republic, Bulgaria, Macedonia, Hungary, Greece, Poland, France, Netherlands, Switzerland, Spain, United Kingdom, Ireland, Germany, Italy, Austria, Israel
	Russian-Speaking Regions:
	Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russian Federation, Ukraine, Moldova, Belarus, Uzbekistan
Accuracy (Under recommended installation and lighting conditions)	Capture rate > 98% Driving 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%
Lane number	Support 2 lane detection
Capture Speed Range	5 to 165km/h
No License Plate Detection	Yes
Motorcycle LPR	Yes
Vehicle Type	Car/Van/Bus/Truck/Motorbike/Others **IR Model: Recognizable at daytime only**
Vehicle Color	Red, yellow(including orange), green, blue, purple, brown, white, grey(including silver), black **IR Model: Recognizable at daytime only**
Whitelist and Blacklist	Up to 2048
Image	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Sub-Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Third Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser.
Video Compression	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 in 24bit bmp format
Network	
Network Storage	microSD/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, UPnP, IPv6, UDP
Security Measures	Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1)
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 20 channels
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Client	iVMS-4200, Hik-Central
Web Browser	IE7+
Interface	
Audio	Supported
Communication Interface	1 RJ45 10M/100M/1000M Ethernet interface 1 RS-485 interface 1 Wiegand interface
Alarm	1 input interface, 1 output interface, 2 relays
Video Output	Network
On-Board Storage	Built-in microSD/TF card, up to 128 GB
Reset Button	Supported
General	
Firmware Version	V4.2.2
Operating System	Linux
Certifications	CE, FCC, RoHS
Operating Conditions	Temperature: -30 °C to +70 °C (-22 °F to +158 °F) , Humidity: 95% or less (non-condensing)
Power Supply	12 VDC to 24 VDC ± 20%, PoE (802.3at, class 4)
Power Consumption	Max. 12 W
Protection Level	IP67, IK10
Material	Aluminum alloy
Dimensions	With package: 428.5 × 120 × 132.8 mm
Weight	Camera: approx. 3.12 ± 0.5 kg (6.88 ± 1.1 lb)

* 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-TCM403-AFR/0832

Application Scenario

Urban Road

Mixed Road

Highway Toll

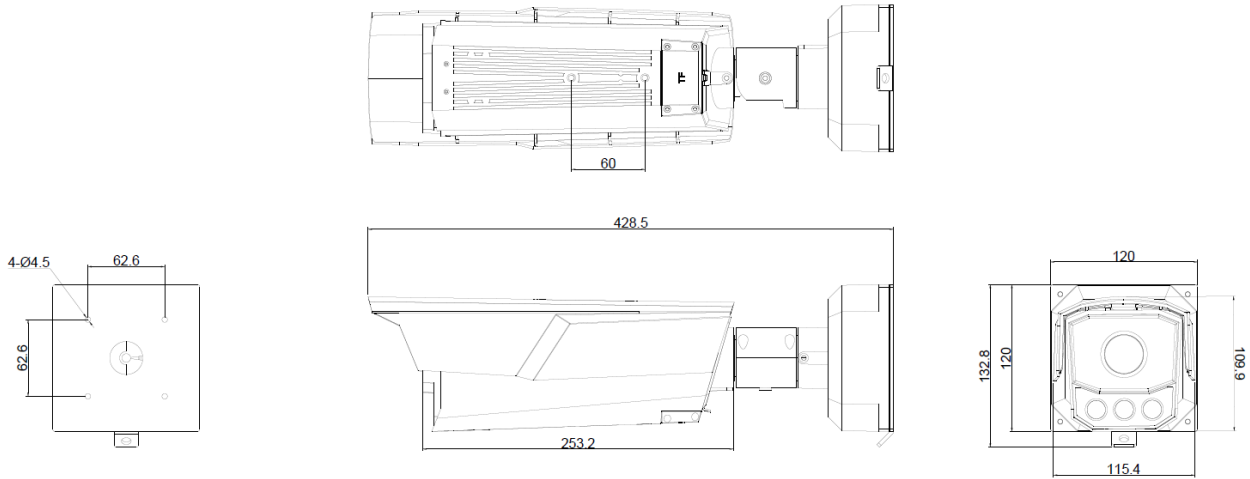## Application Performance

- **Urban road, mixed road, etc.**

Day

Night

Day

Night

Dimension

Unit: mm

Accessory

Hoop Bracket DS-1275ZJ/HWB	Hoop Bracket DS-1278ZJ-HWB/HG/60-300