

iDS-TCM403-AFR

High Performance ANPR Bullet Camera



**DarkFighter**

**DeepinView**



## 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



- 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



## 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	<p><b>Mid-East:</b> Turkey, United Arab Emirates, Qatar, Iran, Iraq, Egypt, Jordan, Kuwait, Saudi Arabia, Tunisia, Palestine, Pakistan</p> <p><b>Africa:</b> South Africa, Kenya, Nigeria, Tanzania, Mauritius, Morocco</p> <p><b>Asia-Pacific:</b> Australia, 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>Europe:</b> 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</p> <p><b>Russian-Speaking Regions:</b> Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russian Federation, Ukraine, Moldova, Belarus, Uzbekistan</p>
Accuracy (Under recommended installation and lighting conditions)	<p>Capture rate &gt; 98% Driving direction recognition accuracy &gt; 98.5% LPR accuracy &gt; 98% Mistaken capture rate &lt; 2%</p> <p><b>European and Russian-Speaking Regions:</b> LPR accuracy &gt; 98% Country/Region recognition accuracy &gt; 95%</p>
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 <b>IR Model: Recognizable at daytime only</b>
Vehicle Color	Red, yellow(including orange), green, blue, purple, brown, white, grey(including silver), black <b>IR Model: Recognizable at daytime only</b>
Whitelist and Blacklist	Up to 2048
<b>Image</b>	
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
<b>Network</b>	
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+
<b>Interface</b>	
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
<b>General</b>	
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

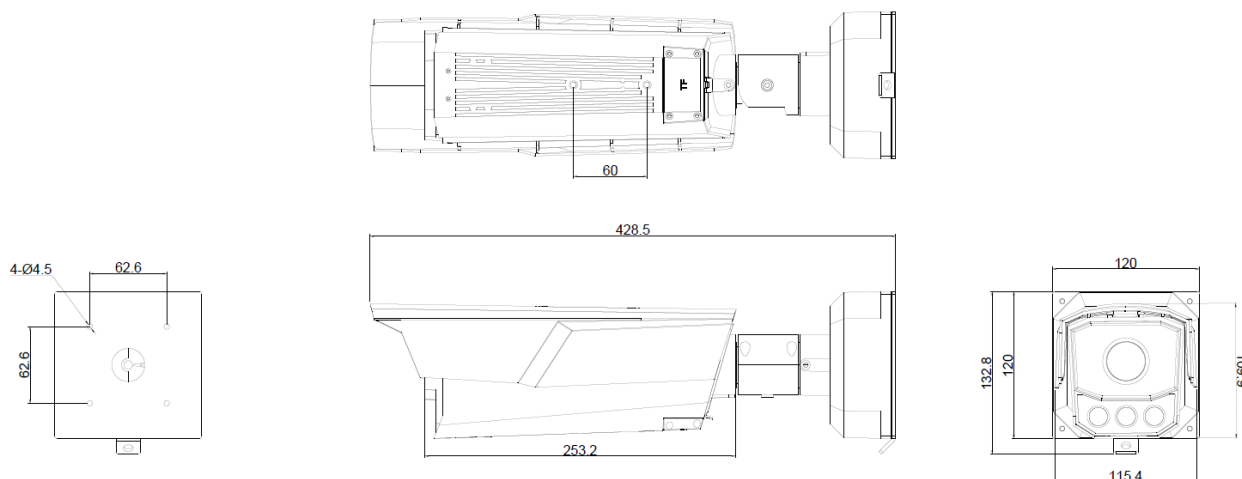


Day



Night

## Dimension



Unit: mm

## Accessory

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