

iDS-TCM403-A(I) High Performance ANPR Bullet Camera





DeepinView













- 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)
- H.265, H.264
- 140 dB WDR
- 3D DNR

- Alarm I/O
- 1 RS-485 interface
- IR 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

- Vehicle control
- Traffic monitoring
- Toll collection
- Security

Scenarios

- Tunnel
- Toll station
- Urban road
- Parking entrance

Smart Function

- Support vehicle model classification
- Support vehicle color identification
- Support no-plate vehicle capture
- Support driving direction detection
- Support motorcycle capture







Available Model

iDS-TCM403-A/0832

iDS-TCM403-AI/0832

iDS-TCM403-A/0411

iDS-TCM403-AI/0411



Specification

Camera	iDS-TCM403-A(I)
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux with IR
Shutter Speed	1/25 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	140 dB
Lens	
Focal Length	4 to 11 mm, 8 to 32 mm
Aperture	4 to 11 mm :F1.38, 8 to 32 mm:F1.63~1.8
Focus	Auto
FOV	4 to 11 mm, horizontal FOV 114.7° to 41.9°, vertical FOV 59.4° to 23.6°, diagonal FOV 141.5° to 48.1°
	8 to 32 mm, horizontal FOV 39.7° to 15.9°, vertical FOV 22.3° to 9.1°, diagonal FOV 45.8° to 18.1°
Auto-iris	DC drive
IR	
IR Range	4 to 11 mm, Up to 50 m 8 to 32 mm, 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
Н.264 Туре	Baseline Profile/Main Profile/High Profile
Н.265 Туре	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 model classification, color identification, no-plate vehicle capture, driving direction detection
Road Traffic and Vehicle De	tection



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, 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
	Capture rate > 99%
Accuracy	Driving direction recognition accuracy > 98.5%
(Under recommended	Mistaken capture rate < 1.5% (entrance/exit), < 2%
installation and lighting conditions)	European and Russian-Speaking Regions:
	LPR accuracy > 98.5% Country/Region recognition accuracy > 99.4%
No Linear Dista Datastica	
No License Plate Detection	Yes
Motorcycle LPR	Yes
Image Max. Resolution	2688 × 1520
wax. Resolution	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Main Stream	
	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)
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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) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
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) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288)
Sub-Stream Third 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) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are
Sub-Stream Third Stream Image Settings	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser.
Sub-Stream Third Stream Image Settings SVC	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding
Sub-Stream Third Stream Image Settings SVC Day/Night Switch	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network Network Storage	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format microSD/TF card (128 GB), local storage, CVR, NVR, ANR
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network Network Storage	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format microSD/TF card (128 GB), local storage, CVR, NVR, ANR HDD Error, Network Disconnected, IP Address Conflicted, Vehicle Detector Exception, Traffic
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network Network Storage Alarm Trigger	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format microSD/TF card (128 GB), local storage, CVR, NVR, ANR HDD Error, Network Disconnected, IP Address Conflicted, Vehicle Detector Exception, Traffic Light Detector Exception
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network Network Storage Alarm Trigger Protocols	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format microSD/TF card (128 GB), local storage, CVR, NVR, ANR HDD Error, Network Disconnected, IP Address Conflicted, Vehicle Detector Exception, Traffic Light Detector Exception TCP/IP, HTTP, HTTPS, FTP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IPv6, UDP Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network Network Storage Alarm Trigger Protocols Security Measures	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format microSD/TF card (128 GB), local storage, CVR, NVR, ANR HDD Error, Network Disconnected, IP Address Conflicted, Vehicle Detector Exception, Traffic Light Detector Exception TCP/IP, HTTP, HTTPS, FTP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IPv6, UDP Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1)
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network Network Storage Alarm Trigger Protocols Security Measures General Function	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format microSD/TF card (128 GB), local storage, CVR, NVR, ANR HDD Error, Network Disconnected, IP Address Conflicted, Vehicle Detector Exception, Traffic Light Detector Exception TCP/IP, HTTP, HTTPS, FTP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IPv6, UDP Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1) One-key reset, three streams, heartbeat, password protection, watermark
Sub-Stream Third Stream Image Settings SVC Day/Night Switch Video Overlay Network Network Storage Alarm Trigger Protocols Security Measures General Function API	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480) Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser. H.264 and H.265 encoding Auto/Scheduled/Triggered by alarm in Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format microSD/TF card (128 GB), local storage, CVR, NVR, ANR HDD Error, Network Disconnected, IP Address Conflicted, Vehicle Detector Exception, Traffic Light Detector Exception TCP/IP, HTTP, HTTPS, FTP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IPv6, UDP Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1) One-key reset, three streams, heartbeat, password protection, watermark ONVIF (Version 2.1), ISAPI, SDK



Web December	157.
Web Browser	IE7+
Interface	
Audio	Yes
Communication Interface	1 RJ45 10M/100M/1000M Ethernet interface, 1 RS-485 interface, Wiegand interface
Alarm	1 input, 1 output, 2 relays
Video Output	Network
On-Board Storage	Built-in microSD/TF card, up to 128 GB
Reset Button	Yes
General	
Firmware Version	V4.2.2
Operating Conditions	Temperature: -30 °C to +70 °C (-22 °F to +158 °F) , -H: -40 °C to +60 °C (-40 °F to +140 °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
Heater	-H: yes
Material	Aluminum alloy
Dimensions	With package: 428.5 × 120 × 132.8 mm (16.87" × 4.72" × 5.23")
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.

Application Scenario









Urban Road Mix

Mixed Road Entrance & Exit

Highway Toll Station

^{*-}H: Heater supported



Application Performance

• Urban road, mixed road, etc.





Day Night





Day Night

• Entrance & exit, highway toll station, etc.

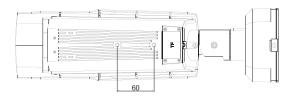


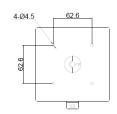


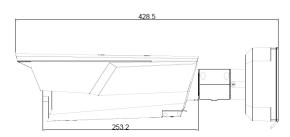
Day Night

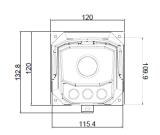


Dimension





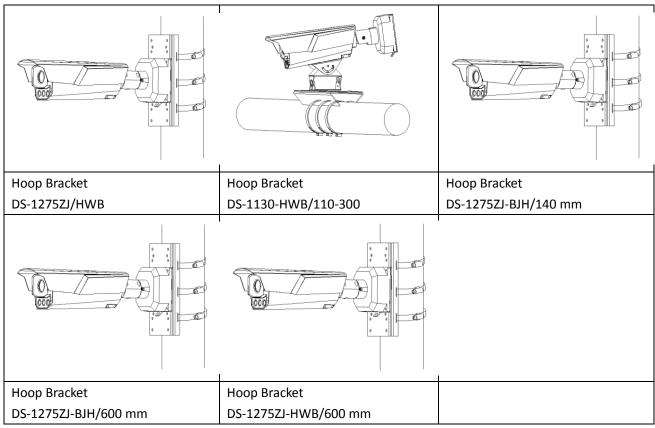




Unit: mm



Accessory



Distributed by

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