

iDS-TCV500-HE/IM Tyre and Axle Recognition Unit



- High quality imaging with 5 MP resolution (2/3" GMOS).
- Excellent low-light performance. Color: 0.001 Lux@(F1.4, AGC ON), 0.0005 Lux with IR.
- Efficient H.265 compression technology.
- 3D DNR technology delivers clean and sharp images.
- Supports stitching the vehicle side pictures into an overview picture, outputting pictures of max. 32768 × 2048 resolution.
- Axle and tyre type recognition.



Specification

Camera			
Image Sensor	2/3" GMOS		
Max. Resolution	2496 × 2048		
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON), 0 Lux with white light		
Shutter Time	50 to 20000 μs		
Day & Night	24/7 color imaging		
Lens			
Lens Type	Varifocal lens, manual adjustment, 5.7 to 21 mm		
Focal Length & FOV	5.7 to 21 mm, horizontal FOV 81.2° to 25.2°, vertical FOV 67.9° to 21.1°, diagonal FOV		
	105.4° to 32.7°		
Focus	Auto		
Aperture	F1.7-3.2		
Illuminator			
Built-in Supplement Light Range	Up to 30 m		
IR Wavelength	850 nm		
External Supplement Light	Strobe light		
Video			
	50 Hz: 100 fps (2496 × 2048, 1920 × 1080, 704 × 576)		
Main Stream	60 Hz: 120 fps (2496 × 2048, 1920 × 1080, 704 × 576)		
	50 Hz: 25 fps (1920×1080, 704×576)		
Sub-Stream	60 Hz: 30 fps (1920 × 1080, 704 × 576)		
Video Compression	Main stream: H.265/H.264/MJPEG,Sub-stream: H.264/MJPEG		
Video Bit Rate	32 Kbps to 16 Mbps		
H.264 Type	Baseline Profile, Main Profile, High Profile		
H.265 Type	Main Profile		
Network			
	TCP/IP,ICMP,HTTP,HTTPS,FTP,DNS,RTP,RTSP,RTCP,NTP,SNMP,IGMP,802.1X,IPv4/IPv6,		
Protocols	UDP,ISUP,ARP		
Simultaneous Live View	Up to 6 channels		
API			
User/Host	ONVIF (PROFILE S, PROFILE G, PROFILE T),ISAPI,SDK,ISUP Up to 32 users,3 user levels: administrator, operator, and user		
Security Security	Password protection, HTTPS encryption, Control timeout settings, Complicated		
	password		
Network Storage	Micro SD/TF card (512 GB),Local storage,CVR,NVR,ANR		
Client	Hik-Central Master, Hik-Central Pro, HikCentral Master Lite		
Web Browser	Chrome V61+, IE9 to IE11, Firefox V41+, Edge		
Image	Cironie voir, its to itii, inclox v417, tage		
illage	Saturatio, Brightness, Contrast, Sharpness, White balance, AGC, Adjustable by client		
Image Settings	software or web browser.		
Day/Night Switch	Auto,Schedule,Manual		
SNR	≥ 60 dB		
Image Enhancement	BLC,HLC,3D DNR		
Interface			
Ethernet Interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port(s)		
On-Board Storage	Built-in memory card slot, supporting microSD/SDHC/SDXC card, up to 512 GB		
	7		



Alarm	2 input interfaces (T1, SYNC), 7 output interfaces	
RS-485	3 RS-485 (halfduplex, HIKVISION)	
RS-232	1 RS-232	
USB	1 USB 2.0 interface(s)	
Event		
Basic Event	HDD error,Network disconnected,IP address conflict	
Road Traffic and Vehicle Detection		
Smart Function	Axle total number recognition, Tyre total number recognition, Axle type recognition	
General		
Operating System	Linux	
Power	AC 100 V to 240 V, 1.5 A, max. 35 W, 3-core terminal block	
Material	Aluminum alloy	
Dimension	501 mm × 175.6 mm × 144.6 mm (19.72" × 6.92" × 5.69") (L × W × H)	
Package Dimension	667 mm × 357 mm × 224 mm (26.26" × 14.06" × 8.82") (L × W × H)	
Weight	Approx. 5.13 kg (11.3 lb.)	
With Package Weight	Approx. 7.4 kg (16.3 lb.)	
Operating Condition	-40 °C to 70 °C (-40 °F to 158 °F). Humidity: 5% to 95% (non-condensing)	
Storage Condition	-30 °C to 70 °C (-22 °F to 158 °F). Humidity 95% or less (Non-condensing)	
General Function	One-key reset,Three streams,Heartbeat,Password protection	
Heater	Supported	
Language	English	
Approval		
EMC	CE-EMC: EN 55032: 2015/A11:2020+A1:2020, EN IEC61000-3-2:2019/A1:2021, EN	
	61000-3-3:2013+A1:2019/A2:2021, EN 50130-4:2011 +A1: 2014	
Safety	CB: IEC 62368-1:2014,CB: IEC 62368-1:2018,CE-LVD: EN 62368-1:2014+A11: 2017,	
	CE-LVD:EN IEC 62368-1:2020+A11:2020	
Environment	CE-RoHS: 2011/65/EU,WEEE: 2012/19/EU,Reach: Regulation (EC) No 1907/2006	
Protection	IK10:IEC 62262:2002,IP67:IEC 60529-2013	

Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

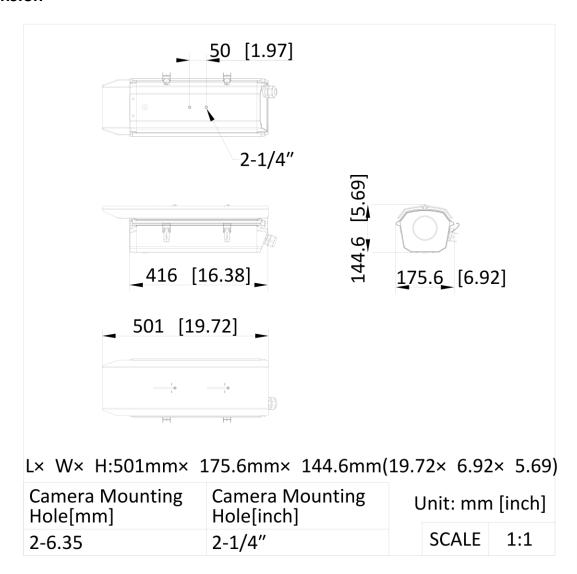
Level	Description	
Top-level protection	Hikvision products at this level are equipped for use in areas where professional	
	anti-corrosion protection is a must. Typical application scenarios include coastlines, docks,	
	chemical plants, and more.	
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion	
	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24	
	miles) away from coastlines, as well as areas affected by acid rain.	
No specific protection	Hikvision products at this level are equipped for use in areas where no specific	
	anti-corrosion protection is needed.	

Available Model

iDS-TCV500-HE/IM/5721/H1



Dimension



Accessory

Optional

DS-1275ZJ/HWB	DS-1275ZJ-HWB/600mm
Hoop & Bracket	Hoop & Bracket
au	TOU

See Far, Go Further



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