HIKVISION®

iDS-TCC446-HI
Mobile Intelligent Panoramic Positioning System

- 4MP 1/1.8" CMOS sensor, ultra-low illumination night imaging, shooting clearer.

- 360°(2×180°) panoramic view.

- Up to 2688x1520 resolution for Image Encoding.

- Support several types of road disease information detection.

- Support license plate recognition (LPR).

- Violation behaviors detection: driving on lane line, motor vehicle on non-motor Vehicle Lane, wrong-way driving detection etc.

- 4 MP PTZ camera, 23x optical zoom.

- Adopt all-weather design, high-strength aluminum alloy casting housing.

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS（Camera）, 1/1.8" Progressive Scan CMOS（PTZ Camera）
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.0005 Lux @ (F1.5, AGC ON), 0 Lux with IR
Shutter Time	1/25 s to 1/12500 s
Lens	
Lens Type	Fixed focal lens, 4 mm（Camera）, Varifocal lens, motorized lens, 5.9 to 135.7 mm（PTZ Camera）
Focal Length & FOV	4 mm, horizontal FOV 81°, vertical FOV 44°, diagonal FOV 94°, 5.9 to 135.7 mm, horizontal FOV 59° to 3°, vertical FOV 35° to 2°, diagonal FOV 66° to 4°
Aperture	4 mm: F1.6 5.9 to 135.7 mm: F1.6　to F4.1
Illuminator	
Built-in Supplement Light Type	IR light
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 20 fps (2560 × 1440, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Sub-Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 20 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Third Stream	50 Hz: 25 fps (1280 × 720, 704 × 576) 60 Hz: 20 fps (1280 × 720, 704 × 576)
Video Compression	Main stream: H.265/H.264/MJPEG, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 32 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
PTZ	
Pan Speed	Configurable, 1°~128°/s, preset speed: 128°/s
Pan Range	360° infinite rotation
Preset	256 preset positions
Tilt Speed	Configurable, 1°~62°/s, preset speed: 70°/s

Tilt Range	-90°~90°
Network	
Protocols	TCP/IP,HTTP,DHCP,DNS,RTP,RTSP,NTP,HTTPS,SNMP,802.1X
Image	
Image Parameters Switch	Supported
Image Settings	Saturation,Brightness,Contrast,Sharpness,Gain,White balance,AGC
Day/Night Switch	Day,Night,Auto,Schedule
Wide Dynamic Range (WDR)	100dB
SNR	≥ 60 dB
Image Enhancement	BLC,HLC,3D DNR
Interface	
On-Board Storage	Built-in memory card slot, supporting TF card, up to 1TB
Aviation Plug	Supported
Road Traffic and Vehicle Detection	
Smart Function	1.Road Diseases Detection (Recommended for sunny daytime use only): Pothole;Waterlogging;Alligator Cracking;Patching;Pitted Skin;Transverse Cracking;Longitudinal Cracking;Manhole Frame Difference. 2.Smart Mode (Recommended for daytime use only): Support license plate capture and recognition, Without helmet detection ，Manned Non-Motor Vehicle. 3.Vehicle Evidence Capture (Recommended for daytime use only): Support license plate capture and recognition, Without helmet detection ，Manned Non-Motor Vehicle, Driving on the Lane Line, Wrong-Way Driving, Motor Vehicle on Non-Motor Vehicle Lane, Restricted Lane Occupation. 4.Stopped Vehicle Capture (Recommended for daytime use only): Support vehicle parking violation detection. 5.Face capture&Face comparsion: Support Face capture and comparsion.

LPR Countries/Regions	Middle East: The United Arab Emirates (Abu Dhabi, Ajman, Dubai, Fujairah, Ras Al Khaimah, Sharjah and Umm Al Quwain), Qatar, Iraq, Egypt, Jordan, Kuwait, Saudi Arabia, Pakistan, Oman, Lebanon, Bahrain, Africa: Nigeria, Kenya, Ivory Coast, South Africa, Tanzania, Mauritius, Morocco, Tunisia, Sierra Leone, Zambia, Ghana, Zimbabwe, Uganda, Angola, Ethiopia, Senegal, Algeria, Asia-Pacific: Australia, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Myanmar, India, Mongolia, Cambodia, Laos, Bangladesh, Nepal, Sri Lanka, America: Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia, Brazil, Ecuador, Peru, Mexico, Panama, Costa Rica, Trinidad and Tobago, the Dominican Republic, Guatemala, Europe: Turkey, Croatia, Slovakia, Czech Republic, Bulgaria, the Republic of North Macedonia, Hungary, Greece, Poland, France, Netherlands, Switzerland, Spain, the UK, Ireland, Germany, Italy, Austria, Israel, Palestinian, Belgium, Luxembourg, Albania, Kosovo, Serbia, Romania, Montenegro, Denmark, Finland, Sweden, Slovenia, Portugal, Malta, Cyprus, Iceland, Liechtenstein, Bosnia and Herzegovina, Russian-Speaking Regions: Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia, Turkmenistan, Tajikistan
Accuracy (Under recommended installation and lighting conditions)	Capture rate > 90%, LPR accuracy > 95%, Mistaken capture rate < 10%
Blocklist and Allowlist	Supported
Face Detection	
Face Capture	Supported
Face Comparison	Supported
General	
Operating System	Linux
Power	DC 8 V to 36 V, 6.25 A, max. 50 W
Material	Aluminum alloy
Dimension	344 mm × 251.6 mm × 360 mm (13.54" × 9.9" × 14.17") (L × W × H)
Package Dimension	415 mm × 317 mm × 445 mm (16.34" × 12.48" × 17.52") (L × W × H)
Weight	Approx. 11.3 kg (24.9 lb.)
With Package Weight	Approx. 14.6 kg (32.2 lb.)
Operating Condition	-35 °C to 65 °C (-31 °F to 149 °F). Humidity 95% or less (non-condensing)
Storage Condition	-35 °C to 65 °C (-31 °F to 149 °F). Humidity 95% or less (non-condensing)
Approval	
EMC	CE-EMC: EN 50130-4:2011+A1:2014;EN 55032:2015+A11:2020+A1:2020;EN 61000-3-3:2013+A1:2019+A2:2021;EN IEC 61000-3-2:2019+A1:2021+A2:2024
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

▪ 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.
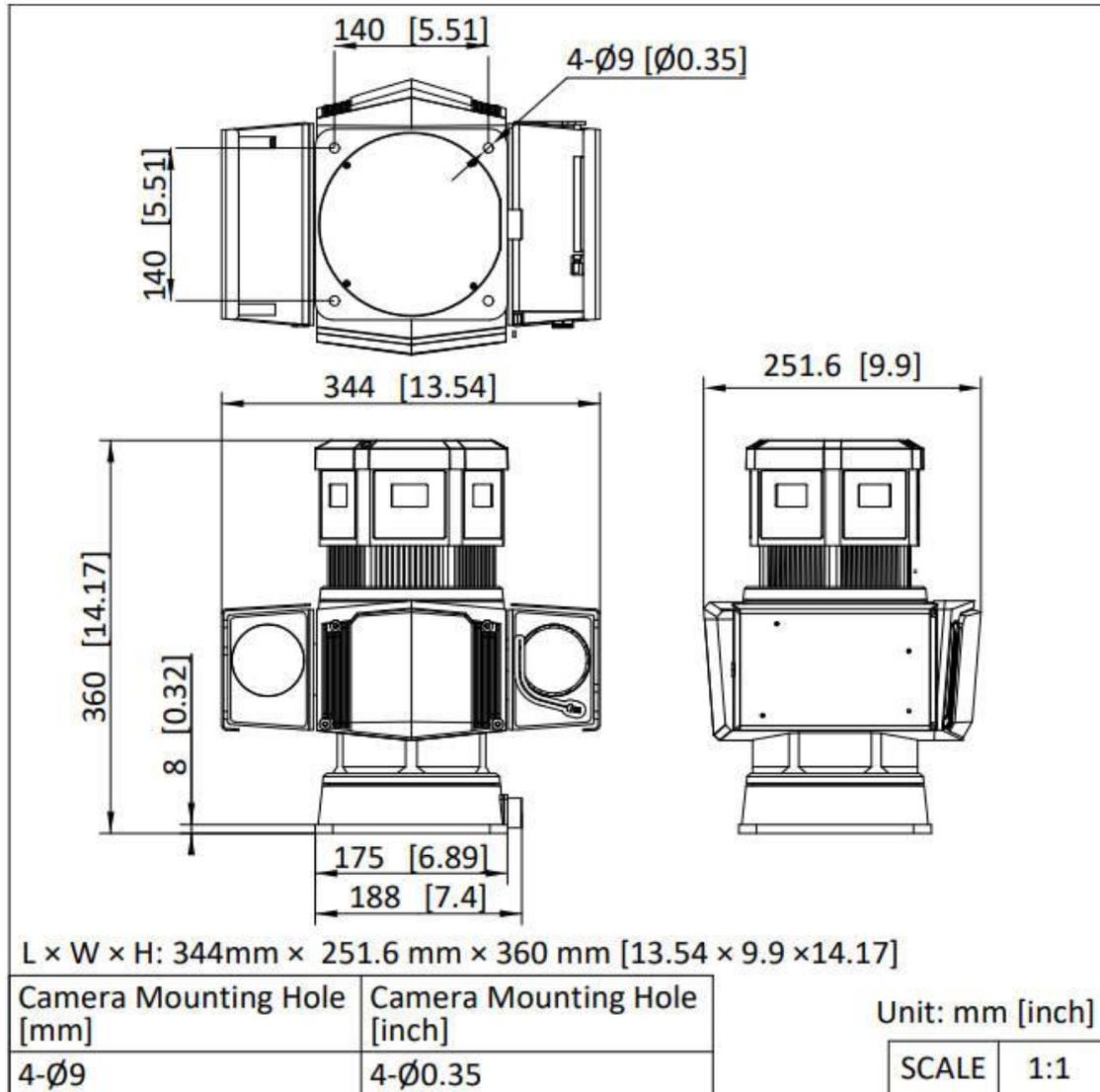This model has NO SPECIFIC PROTECTION.

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-TCC446-HI/23

▪ Dimension

140 [5.51]

4-Ø9 [Ø0.35]

140 [5.51]

344 [13.54]

251.6 [9.9]

360 [14.17]

8 [0.32]

175 [6.89]

188 [7.4]

L × W × H: 344mm × 251.6 mm × 360 mm [13.54 × 9.9 ×14.17]

Camera Mounting Hole [mm]	Camera Mounting Hole [inch]	Unit: mm [inch]	
4-Ø9	4-Ø0.35	SCALE	1:1

▪ **Accessory**

▪**Optional**

DS-1013K	DS-MDP002(B)	DS-TP50-09H

See Far, Go Further

HIKVISION®