

# iDS-2CD7A46G2/P-IZHS(Y)(/5G) 4MP DeepinView ANPR Moto Varifocal Bullet Camera















Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- High frame rate, up to 2MP@120fps and 4MP@60fps
- Built-in heater to ensure clear image under rainy or snowy weather
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics
- License plate recognition and vehicle attribution recognition



#### Function

**Perimeter Protection** 

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc.

Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.



# Specification

Camera           Image Sensor         1/1.8" Progressive Scan CMOS           Max. Resolution         2688 x 1520           Min. Illumination         Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux with IR           Shutter Time         1 s to 1/200,000 s           Day & Night         IR cut filter, Blue glass module (less ghost phenomenon)           Lets           2.8 to 12 mm, horizontal FOV 106* to 41.8", vertical FOV 55.4" to 23.6", diagonal FOV 130" to 48.1"           8 to 32 mm, horizontal FOV 42.5" to 15.2", vertical FOV 23.4" to 8.7", diagonal FOV 49.7" to 17.3" 6 to 132 mm, horizontal FOV 59.5" to 3.7", vertical FOV 35.9" to 2.1", diagonal FOV 66.5" to 4.3"           Focus           Auto, Semi-auto, Manual           Iris Type           Aperture         2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1           DORI           Wide:	Specification					
Max. Resolution         2688 × 1520           Min. Illumination         Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux with IR           Shutter Time         1 s to 1/100,000 s           Day & Night         IR cut filter, Blue glass module (less ghost phenomenon)           Lens         2.8 to 12 mm, horizontal FOV 106* to 41.8*, vertical FOV 55.4* to 23.6*, diagonal FOV 130* to 48.1*           Focal Length & FOV         8 to 32 mm, horizontal FOV 42.5* to 15.2*, vertical FOV 23.4* to 8.7*, diagonal FOV 49.7* to 17.3*           Focus         Auto, Semi-auto, Manual           Iris Type         P-iris           Aperture         2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1           DORI         Wide: <ul></ul>	Camera					
Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux with IR	Image Sensor	1/1.8" Progressive Scan CMOS				
Min. illumination with IR  Shutter Time 1 s to 1/100,000 s IR cut filter, Blue glass module (less ghost phenomenon)  Lens  2.8 to 12 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 55.4° to 23.6°, diagonal FOV 49.7° to 17.3° 6 to 132 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° 6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV 66.5° to 4.3°  Focus Auto, Semi-auto, Manual Iris Type P-iris Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 37.2 m, R (Recognize): 30.1 m, I (Identify): 9.4 m Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 151.7 m, O (Observe): 158.7 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 1655.2 m, O (Observe): 158.7 m, R (Recognize): 30.3 m, I (Identify): 15.5 m 1 to 22 mm: D (Detect): 1655.2 m, O (Observe): 158.7 m, R (Recognize): 30.3 m, I (Identify): 15.5 m 1 to 132 mm: D (Detect): 1655.2 m, O (Observe): 158.7 m, R (Recognize): 30.3 m, I (Identify): 15.5 m 1 to 100R1 walues are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR  Supplement Light Type Smart Supplement Light Type Smart Supplement Light Type Smart Supplement Light Type	Max. Resolution	2688 × 1520				
Shutter Time 1 s to 1/100,000 s  Pay & Night 2 lR cut filter, Blue glass module (less ghost phenomenon)  Lets  Lets  2.8 to 12 mm, horizontal FOV 106* to 41.8°, vertical FOV 55.4° to 23.6°, diagonal FOV 130° to 48.1° 8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° 6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV 66.5° to 4.3°  Focus Auto, Semi-auto, Manual  Iris Type P-iris  Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 1 (Identify): 9.4 m 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 155.7 m, O (Observe): 65.8 m, R (Recognize): 30.3 m, I (Identify): 15.5 m The DORI Udentify): 165.5 m The DORI Values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR  Supplement Light Type Smart Supplement Light Type  Smart Supplement Light Type  Smart Supplement Light Type  Smart Supplement Light Type  Smart Supplement Light Type  Smart Supplement Light Type	Min Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux				
IR cut filter, Blue glass module (less ghost phenomenon)  Lens  2.8 to 12 mm, horizontal FOV 106" to 41.8", vertical FOV 55.4" to 23.6", diagonal FOV 130" to 48.1" 8 to 32 mm, horizontal FOV 42.5" to 15.2", vertical FOV 23.4" to 8.7", diagonal FOV 49.7" to 17.3" 6 to 132 mm, horizontal FOV 59.5" to 3.7", vertical FOV 35.9" to 2.1", diagonal FOV 66.5" to 4.3"  Focus Auto, Semi-auto, Manual Iris Type P-iris Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 30.1 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 55.8 m, R (Recognize): 30.1 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type Recognize (12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Type (12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m	Willi. Illullilliacion	with IR				
Blue glass module (less ghost phenomenon)	Shutter Time	1 s to 1/100,000 s				
Blue glass module (less ghost phenomenon)  Lens  2.8 to 12 mm, horizontal FOV 106° to 41.8°, vertical FOV 55.4° to 23.6°, diagonal FOV 130° to 48.1° 8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° 6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV 66.5° to 4.3°  Focus Auto, Semi-auto, Manual  Iris Type P-iris  Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m  8 to 32 mm: D (Detect): 155.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m  The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Bluminator  Supplement Light Type R  Supplement Light Range S  Smart Supplement Light Range  Smart Supplement Light Range  Smart Supplement Light Yes	Day & Night	IR cut filter,				
2.8 to 12 mm, horizontal FOV 106° to 41.8°, vertical FOV 55.4° to 23.6°, diagonal FOV 130° to 48.1°  8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° 6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV 66.5° to 4.3°  Focus Auto, Semi-auto, Manual  Iris Type P-iris  Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 30.3 m, I (Identify): 15.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR Supplement Light Type IR Supplement Light Range  2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Type	Day & Might	Blue glass module (less ghost phenomenon)				
Focal Length & FOV  8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3° 6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV 66.5° to 4.3°  Focus  Auto, Semi-auto, Manual  Iris Type  P-iris  Aperture  2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 30.3 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type  IR  2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Type  Yes	Lens					
Sto 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3°		2.8 to 12 mm, horizontal FOV 106° to 41.8°, vertical FOV 55.4° to 23.6°, diagonal FOV				
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49.7" to 17.3" 6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV 66.5° to 4.3°  Focus Auto, Semi-auto, Manual Iris Type P-iris  Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR Supplement Light Range 2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Yes	Focal Longth & FOV	8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV				
Focus Auto, Semi-auto, Manual  Iris Type P-iris  Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 37.2 m, R (Recognize): 30.3 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR  Supplement Light Range 2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Yes	rocai Leligili & rov	49.7° to 17.3°				
Focus Auto,Semi-auto,Manual  Iris Type P-iris  Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR  Supplement Light Range Range 2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Yes		6 to 132 mm, horizontal FOV 59.5° to 3.7°, vertical FOV 35.9° to 2.1°, diagonal FOV				
Iris Type P-iris Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR Supplement Light Range 2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Yes		66.5° to 4.3°				
Aperture 2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1  DORI  Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type IR 2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Yes	Focus	Auto,Semi-auto,Manual				
Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.    Illuminator	Iris Type	P-iris				
Wide: 2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m  Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.    Iluminator	Aperture	2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73,6 to 132 mm: F1.6 to F4.1				
2.8 to 12 mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m  8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m  6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m  Tele:  2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m  8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m  6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m  The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.  Illuminator  Supplement Light Type  IR  2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light  Yes	DORI					
Supplement Light Type IR Supplement Light Range 2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Yes	DORI	6 m 8 to 32 mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m 6 to 132 mm: D (Detect): 93.8 m, O (Observe): 37.2 m, R (Recognize): 18.8 m, I (Identify): 9.4 m Tele: 2.8 to 12 mm: D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m 8 to 32 mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 m 6 to 132 mm: D (Detect): 1655.2 m, O (Observe): 656.8 m, R (Recognize): 331.0 m, I (Identify): 165.5 m The DORI values are calculated using pixel densities for different use cases as				
Supplement Light Type IR  Supplement Light Range 2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light Yes	Illuminator	recommended by the Liv 62676 4 standard.				
Supplement Light Range  2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132 mm: 200 m  Smart Supplement Light  Yes		IR				
•		2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m, Monitoring: 6 to 132				
IR Wavelength 850 nm	Smart Supplement Light	Yes				
	IR Wavelength	850 nm				



Video			
	Monitoring mode:		
	50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)		
	60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)		
Main Stream	*High frame rate is supported under monitoring mode only.		
	smart mode:		
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
	50 Hz: 25 fps (1280 × 720,704 × 576, 640 × 480)		
Sub-Stream	60 Hz: 30 fps (1280 × 720,704 × 480, 640 × 480)		
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
	50 Hz: 25 fps (704 × 576, 640 × 480)		
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
	50 Hz: 25 fps (704 × 576, 640 × 480)		
Fifth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
	Main stream: H.265+/H.265/H.264+/H.264,		
	Sub-stream: H.265/H.264/MJPEG,		
Video Compression	Third stream: H.265/H.264,		
·	Fourth stream: H.265/H.264/MJPEG,		
	Fifth stream: H.265/H.264/MJPEG		
Video Bit Rate	32 Kbps to 8 Mbps		
H.264 Type	Baseline Profile, Main Profile, High Profile		
H.265 Type	Main Profile		
Bit Rate Control	CBR,VBR		
Scalable Video Coding (SVC)	H.264 and H.265 encoding		
Region of Interest (ROI)	4 fixed regions for each stream		
Target Cropping	Yes		
e-PTZ	Support Patrol and Auto Tracking settings		
Audio			
Audio Type	Mono sound		
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC		
·	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps		
Audio Bit Rate	(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)		
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz		
Environment Noise Filtering	Yes		
Network			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP,		
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour,		
	SSL/TLS, ARP, WebSocket, WebSockets		
Simultaneous Live View	Up to 20 channels		
API	ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)		
User/Host	Up to 32 users		
	3 user levels: administrator, operator, and user		
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	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest			
Security	authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network			
	Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log,			
	TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256			
	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),			
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health			
-	detection are supported.			
Client	iVMS-4200,Hik-Connect,Hik-Central			
	Plug-in required live view: IE 10, IE 11,			
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,			
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+			
Mobile Communication				
Standard	-5G: 5G NR/LTE-FDD/LTE-TDD			
	-5G:			
_	5G NR: n41/n77/n78/n79			
Frequency	LTE-FDD: B1/B3/B5/B8			
	LTE-TDD: B38/39/B40/B41			
SIM Card Type	-5G: Micro SIM			
Image				
Image Parameters Switch	Yes			
	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable			
Image Settings	by client software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger			
Wide Dynamic Range (WDR)	150 dB			
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog			
SNR	≥ 52 dB			
Privacy Mask	8 programmable polygon privacy masks			
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.			
Image Stabilization	EIS			
Interface				
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)			
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port			
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB			
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)			
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,			
	input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,			
Audio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp			
	output impedance: $100 \Omega$ , interface type: non-equilibrium, mono sound			
RS-485	-Y: 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)			
Reset Key	Yes			
Power Output	-Y: 12 VDC, max. 100 mA			
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Event				
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,video quality diagnosis,exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error),vibration detection			
Smart Event	scene change detection, audio exception detection, defocus detection			
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture,audible warning			
Deep Learning Function				
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering			
Metadata	Intrusion detection,line crossing detection,region entrance detection,region exiting detection,road traffic			
Road Traffic and Vehicle Detection	Smart Function:  Support license plate recognition of vehicles and motorcycles (only in checkpoint scenario)  Support vehicle attribute detection, including vehicle type, color, brand, driving direction, etc.  Support vehicle and non-vehicle counting  Blocklist and allowlist: up to 10,000 records  LPR Countries/Regions:  4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions  Accuracy (Under recommended installation and lighting conditions):  License plate recognition rate ≥98%  Capture rate ≥99%  Driving direction accuracy rate ≥98%  Vehicle Capture Speed:  Front installation in checkpoint scenario: up to 120 km/h  Side installation: up to 80 km/h  Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode			
General				
Power	three-core terminal block,  12 VDC ± 20%, 1.88 A, max. 22.56 W,  24 VAC ± 20%, 1.57 A, max. 21.5 W,  6-132mm:  two-core terminal block,  12 VDC ± 20%, 1.88 A, max. 22.56 W,  PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.53 A to 0.4 A, max. 22.6 W without -5G & without 6-132mm:  three-core terminal block,  12 VDC ± 20%, 1.88 A, max. 22.56 W,  24 VAC ± 20%, 1.88 A, max. 21.5 W,  PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.53 A to 0.4 A, max. 22.6 W			
Material	Aluminum alloy body			
Dimension	Ø140 mm × 378.4 mm (Ø5.5" × 14.9")			



Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")			
Weight	Approx. 2170 g (4.78 lb.)			
With Package Weight	Without -Y: Approx. 3364 g (7.42 lb.), -Y: Approx. 3275 g (7.22 lb.)			
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)			
Startup and Operating Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)			
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Ita Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swe Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chir Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian			
General Function	Heartbeat,anti-banding,one-key reset,mirror,password protection,flash log			
Heater	Yes			
Demist	Yes			
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces			
Approval				
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015			
Safety	CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005, LOA: IEC/EN 60950-1			
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006			
Protection	IP67: IEC 60529-2013,IK10: IEC 62262:2002			
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)			
Automotive and Railway	EN50121-4			
Other	PVC FREE			

## 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.

With -Y model: This model has MODERATE PROTECTION. Without -Y model: 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-2CD7A46G2/P-IZHSY(2.8-12mm)

iDS-2CD7A46G2/P-IZHSY(8-32mm)

iDS-2CD7A46G2/P-IZHS(2.8-12mm)

iDS-2CD7A46G2/P-IZHS(8-32mm)

iDS-2CD7A46G2/P-IZHSY/5G(2.8-12mm)

iDS-2CD7A46G2/P-IZHSY/5G(8-32mm)

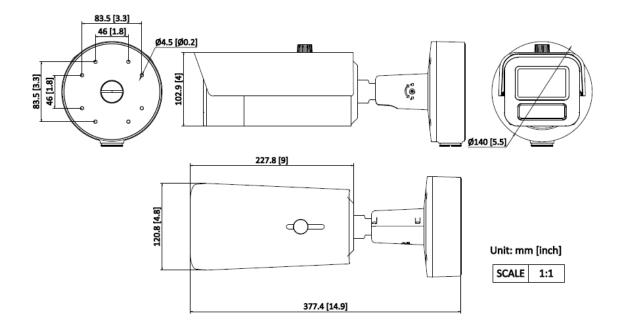
iDS-2CD7A46G2/P-IZHS/5G(2.8-12mm)

iDS-2CD7A46G2/P-IZHS/5G(8-32mm)

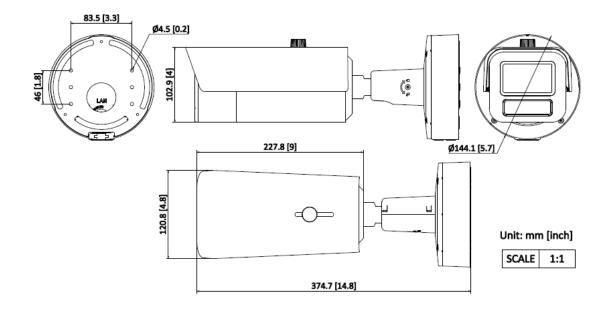
iDS-2CD7A46G2/P-IZHS(6-132mm)

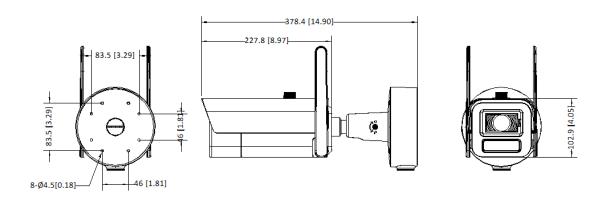
iDS-2CD7A46G2/P-IZHSY(6-132mm)

### Dimension





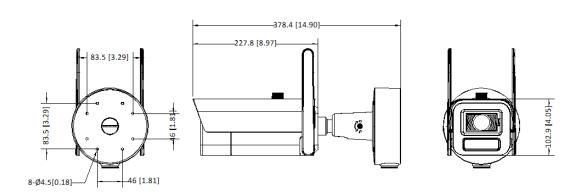




Unit: mm [inch]

SCALE 1:1





Unit: mm [inch]

SCALE 1:1

# Accessory

# Optional

DS-1475ZJ-SUS Vertical pole mount	DS-1476ZJ-SUS Corner mount	DS-1275ZJ-S-SUS Vertical pole mount	DS-1475ZJ-Y Vertical pole mount	DS-1476ZJ-Y Corner mount
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