

#### DS-2CD3646G2HT-LIZS(Y)

### 4 MP Smart Hybrid Light Varifocal Bullet Network 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.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 60 MB system memory, 400 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 4 MP resolution
- Smart Hybrid Light: advanced technology with long range
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 130 dB WDR technology
- Motorized varifocal lens for easy installation and monitoring
- Focus on human and vehicle classification based on deep learning
- Water and dust resistant (IP67) and vandal resistant (IK10)



# Specification

Image Sensor         1/18" Progressive Scan CMOS           Max. Resolution         2688* 1520           Max. Resolution         2688* 1520           Min. Illumination         Colors: 0.001 Lux @ [F1.2, AGC ON], 0 Lux with light           Shutter Time         1/3 s to 1/100,000 s           Day & Night         Ill cut filter           Angle Adjustment         Pan: 0" to 255°, tilt: 0" to 90", rotate: 0" to 360"           Eens         Town           Eens Type         Varifocal lens, motorized lens, 2.7 to 13.5 mm           Focal Length & FOV         2.7 to 13.5 mm, horizontal FOV 114.6" to 41.8", vertical FOV 59.3" to 23.6", diagonal fov 14.1 for 41.8"           Focal Length & FOV         FOV 14.3" to 48.1"           Lens Mount         Integrated           Focus Integrated         POV 14.3" to 48.1"           Lens Mount         Integrated           Focus Auto, Semi-auto, Manual           Ilitristype         DC iris           Apperture         F1.2           Dept of Field         Im to Semi-auto, Manual           Ilitristype         Vicie: D: 60 Om, O: 23.8 m, R: 12.0 m, I: 6.0 m           Total Type         Vicie: D: 60 Om, O: 23.8 m, R: 12.0 m, I: 6.0 m           Ilitristype         IR, White Light           Supplement Light Type         IR, White Light	Camera			
Min. Illumination         Color: 0.001 Lux @ (F1.2, AGC ON), 0 Lux with light           Shutter Time         1/3 s to 1/100,000 s           Day & Night         IR cut filter           Angle Adjustment         Pan: 0" to 355°, tilt: 0" to 90°, rotate: 0" to 360°           Lens         Type           Lens Type         Varifocal lens, motorized lens, 2.7 to 13.5 mm           Focal Length & FOV         2.7 to 13.5 mm, horizontal FOV 114.6" to 41.8", vertical FOV 59.3" to 23.6", diagonal FOV 141.3" to 48.1"           Eens Mount         Integrated           Focus         Auto, Semi-auto, Manual           Fils Type         DC iris           Aperture         F1.2           Depth of Field         1 m to ∞           DORI           Williamster           Jun (1915) Type           Minimator         IR, White Light           Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light         Yes           IR Wavelength         Yes           Beacures         Memory: 60 MB, Smart RAM: 400 MB, enforce           Minimized         Smart RAM: 400 MB, enforce           Momice 2 GB         C++           Open Capability	Image Sensor	1/1.8" Progressive Scan CMOS		
Shutter Time         1/3 s to 1/100,000 s           Day & Night         IR cut filter           Angle Adjustment         Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°           Lens         Varifocal lens, motorized lens, 2.7 to 13.5 mm           Lens Type         Varifocal lens, motorized lens, 2.7 to 13.5 mm           Focal Length & FOV         2.7 to 13.5 mm, horizontal FOV 114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.3° to 48.1°           Lens Mount         Integrated           Focus         Auto, Semi-auto, Manual           Ins Type         DC iris           Aperture         F1.2           Depth of Field         1 m to ∞           DORI           Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m           Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           Bluminator           Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light         Yes           RW avelength         850 nm           HEOP           Open Resources         Smart RAM: 400 MB, eMMc: 2 dB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning St	Max. Resolution	2688 × 1520		
Day & Night         IR cut filter           Angle Adjustment         Pan: 0" to 355", tilt: 0" to 90", rotate: 0" to 360"           Lens         Vermout           Lens Type         Varifocal lens, motorized lens, 2.7 to 13.5 mm           Focal Length & FOV         42.7 to 13.5 mm, horizontal FOV 114.6" to 41.8", vertical FOV 59.3" to 23.6", diagonal FOV 141.3" to 48.1"           Lens Mount         Integrated           Focus         Auto, Semi-auto, Manual           Iris Type         DC Iris           Aperture         F1.2           Depth of Field         1 m to ~           ORI         Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m           Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           Illuminator           Supplement Light Type         IR, White Light           Supplement Light Type         Ves           Smart Supplement Light Range         Up to 60 m           Smart Supplement Light Range         Wes           Memory: 60 MB,         Memory: 60 MB,           Open Resources         Smart RAM: 400 MB, edmic: a GB           Mcmory: 60 MB,         Smart RAM: 400 MB, edmic: a GB           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming La	Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON), 0 Lux with light		
Angle Adjustment         Pan: 0" to 355", tilt: 0" to 90", rotate: 0" to 360"           Lens         Varifocal lens, motorized lens, 2.7 to 13.5 mm           Focal Length & FOV         2.7 to 13.5 mm, horizontal FOV 114.6" to 41.8", vertical FOV 59.3" to 23.6", diagonal FOV 141.3" to 48.1"           Focus         Auto, Semi-auto, Manual Irist Type           Focus         Auto, Semi-auto, Manual Irist Type           Aperture         F1.2           Depth of Field         1 m to ∞           DORI           Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m           Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           Illuminator           Supplement Light Type           IR, White Light           Supplement Light Type         IR, White Light           IR Wavelength         Yes           IR Wavelength         850 nm           HEOP           IR Wavelength         850 nm           HEOP           Computing Power         1.5 TOPS           Open Resources         Smart RAM: 400 MB, eMM: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX <td>Shutter Time</td> <td colspan="3">1/3 s to 1/100,000 s</td>	Shutter Time	1/3 s to 1/100,000 s		
Lens         Lens Type         Varifocal lens, motorized lens, 2.7 to 13.5 mm           Focal Length & FOV         2.7 to 13.5 mm, horizontal FOV 114.6" to 41.8", vertical FOV 59.3" to 23.6", diagonal FOV 141.3" to 48.1"           Lens Mount         Integrated           Focus         Auto, Semi-auto, Manual           Iris Type         DC iris           Aperture         F1.2           Depth of Field         1m to ∞           DORI           Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m           Tele D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           Bluminator           Supplement Light Type         IR, White Light           Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light Range         When Cys. 60 MB,           Smart Supplement Light Range         B50 m           HEOP           Memory: 60 MB,           Smart RAM: 400 MB,           Smart RAM: 400 MB,           Smart RAM: 400 MB,           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 Opendev5DK           Deep Learning Structure         Cafle, PyTorch, TensorFlow, Paddl	Day & Night	IR cut filter		
Lens Type	Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°		
Procal Length & FOV	Lens			
Fov 141.3* to 48.1*   Lens Mount   Integrated     Focus	Lens Type	Varifocal lens, motorized lens, 2.7 to 13.5 mm		
FOV 141.3* to 48.1*   Lens Mount   Integrated     Focus	5 11 11 0 501	2.7 to 13.5 mm, horizontal FOV 114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal		
Focus         Auto, Semi-auto, Manual           Iris Type         DC iris           Aperture         F1.2           Depth of Field         I m to ∞           DORI           Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           Illuminator           Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light Range         850 nm           HEOP           IR Wavelength         850 nm           Memory: 60 MB, Smart RAW: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Wain Stream         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)         60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Fourth Stream	Focal Length & FOV	FOV 141.3° to 48.1°		
Iris Type         DC iris           Aperture         F1.2           Doth of Field         1 m to ∞           DORI           Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m           Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           Illuminator           Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light         Yes           IR Wavelength         850 nm           HEOP           Wemory: 60 MB,           Smart RAM: 400 MB,           Memory: 60 MB,           Smart RAM: 400 MB,           MMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Dee Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Video           Video           Wisher           Main Stream         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Application of the proper prope	Lens Mount	Integrated		
Aperture F1.2  Depth of Field 1 m to ∞  DORI  DORI  DORI  Blluminator  Supplement Light Type IR, White Light Supplement Light Range Up to 60 m  Teles Depth of MB,  Smart Supplement Light Type IR, White Light  Wes  IR Wavelength Yes  IR Wavelength Smart Supplement Light Supplement Light Range Up to 60 m  Memory: 60 MB,  FMC  Dopen Resources Smart RAM: 400 MB,  eMMC: 2 GB  Computing Power 1.5 TOPS  Dopen Capability HEOP 2.0 OpendevSDK  Deep Learning Structure Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX  Programming Language C, C++  Video  Wain Stream 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)  60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)  60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)  *Third Stream 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  *Third Stream is supported under certain settings.  Fourth Stream 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)  *Third stream is supported under certain settings.	Focus	Auto, Semi-auto, Manual		
Depth of Field         1 m to ∞           DORI         Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m           Illuminator           Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light Range         Up to 60 m           Smart Supplement Light Pange         Yes           IR Wavelength         850 nm           HEOP           Memory: 60 MB,           Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Wais Stream         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           Sub-Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Third Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Third Stream is supported under certain settings.	Iris Type	DC iris		
DORI         Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m           Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m           Illuminator           Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light         Yes           IR Wavelength         850 nm           HEOP           Open Resources         Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Wain Stream         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)           60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)           Follows Fream is supported under certain settings.           Fourth Stream         50 Hz: 10 fps (1220 × 720, 640 × 480, 640 × 360)           Follows Fream is supported under certain s	Aperture	F1.2		
DORI   Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m   Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m	Depth of Field	1 m to ∞		
Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m   Illuminator   Supplement Light Type	DORI			
Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m   Illuminator   Supplement Light Type   IR, White Light     Supplement Light Range   Up to 60 m     Smart Supplement Light   Yes     IR Wavelength   850 nm     HEOP		Wide: D: 60.0m, O: 23.8 m, R: 12.0 m, I: 6.0 m		
Supplement Light Type         IR, White Light           Supplement Light Range         Up to 60 m           Smart Supplement Light         Yes           IR Wavelength         850 nm           HEOP           Memory: 60 MB,           Smart RAM: 400 MB,         60 MB,           eMMC: 2 GB         60 MB,           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Wais Stream           50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)           60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)           7 Hird Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           8 OHz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           8 Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	DORI	Tele: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m		
Supplement Light Range         Up to 60 m           Smart Supplement Light         Yes           IR Wavelength         850 nm           HEOP           Deen Resources         Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           60 Hz: 30 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           7 Hird Stream         60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           8 Third stream is supported under certain settings.         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Illuminator			
Supplement Light Range         Up to 60 m           Smart Supplement Light         Yes           IR Wavelength         850 nm           HEOP           Deen Resources         Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           60 Hz: 30 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           7 Hird Stream         60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           8 Third stream is supported under certain settings.         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Supplement Light Type	IR, White Light		
IR Wavelength         850 nm           HEOP           Open Resources         Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Sub-Stream         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)         60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Third Stream         60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Supplement Light Range	Up to 60 m		
HEOP           Open Resources         Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)           Third Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 7third stream is supported under certain settings.           Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Smart Supplement Light	Yes		
Open Resources         Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Value         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)           Third Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 7third stream is supported under certain settings.           Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	IR Wavelength	850 nm		
Open Resources         Smart RAM: 400 MB, eMMC: 2 GB           Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Main Stream         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           Third Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Third Stream is supported under certain settings.           Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	НЕОР			
computing Power       1.5 TOPS         Open Capability       HEOP 2.0 OpendevSDK         Deep Learning Structure       Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX         Programming Language       C, C++         Video       50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Main Stream       50 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Sub-Stream       50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)         60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)         Third Stream       50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)         Fourth Stream       50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)         Fourth Stream       60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		Memory: 60 MB,		
Computing Power         1.5 TOPS           Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video         50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)           Main Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           Sub-Stream         50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)           Third Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           Third Stream is supported under certain settings.           Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Open Resources	Smart RAM: 400 MB,		
Open Capability         HEOP 2.0 OpendevSDK           Deep Learning Structure         Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX           Programming Language         C, C++           Video           Main Stream         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, 640 × 480, 640 × 360)           60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)           Third Stream         50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)           *Third stream is supported under certain settings.           Fourth Stream         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)           Fourth Stream         60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		eMMC: 2 GB		
Deep Learning Structure       Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX         Programming Language       C, C++         Video       50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Main Stream       50 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Sub-Stream       50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)         60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)         Third Stream       50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)         *Third stream is supported under certain settings.         Fourth Stream       50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)         Fourth Stream       60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Computing Power	1.5 TOPS		
Programming Language       C, C++         Video       50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Main Stream       50 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Sub-Stream       50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)         60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)         Third Stream       50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)         *Third stream is supported under certain settings.         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)         Fourth Stream       60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Open Capability	HEOP 2.0 OpendevSDK		
Video         Main Stream       50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Sub-Stream       50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)         60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)         Third Stream       50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)         *Third stream is supported under certain settings.         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)         Fourth Stream       60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Deep Learning Structure	Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX		
Main Stream       50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)         Sub-Stream       50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)         60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)         Third Stream       50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)         *Third stream is supported under certain settings.         50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)         Fourth Stream       60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Programming Language	C, C++		
Main Stream  60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)  50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)  60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)  50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  Third Stream  60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)  50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  *Third stream is supported under certain settings.  50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)  Fourth Stream  60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Video			
60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)  50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)  60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)  50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  Third Stream  60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  *Third stream is supported under certain settings.  50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)  Fourth Stream  60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	NA-in Chara	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
Sub-Stream  60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)  50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  Third Stream  60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  *Third stream is supported under certain settings.  50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)  Fourth Stream  60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)  50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  *Third Stream is supported under certain settings.  50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)  Fourth Stream  60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)		
Third Stream  60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)  *Third stream is supported under certain settings.  50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)  Fourth Stream  60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)		
*Third stream is supported under certain settings. $50 \text{ Hz: } 10 \text{ fps } (1280 \times 720, 640 \times 480, 640 \times 360)$ Fourth Stream $60 \text{ Hz: } 10 \text{ fps } (1280 \times 720, 640 \times 480, 640 \times 360)$		50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)		
50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) Fourth Stream 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Third Stream	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)		
Fourth Stream 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		*Third stream is supported under certain settings.		
		50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		
*Fourth stream is supported under certain settings.	Fourth Stream	60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		
		*Fourth stream is supported under certain settings.		



	Main stream: H.265/H.264/H.264+/H.265+,		
Video Compression	Sub-stream: H.265/H.264/MJPEG,		
	Third stream: H.265/H.264,		
	Fourth stream: H.265/H.264/MJPEG,		
	*Third stream and fourth stream are supported under certain settings.		
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)	5 fixed regions for main stream and sub-stream		
Target Cropping	Yes		
Audio			
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC		
Audio Bit Rate	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/44.1 kHz/48 kHz		
Environment Noise Filtering	Yes		
Network			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,		
Protocols	IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP,		
	WebSocket, WebSockets, SRTP		
Simultaneous Live View	Up to 6 channels		
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP		
Usar/Hast	Up to 32 users		
User/Host	3 user levels: administrator, operator, and user		
	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		
	1.1/1.2/1.3, host authentication (MAC address)		
	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		
Web Browser	Plug-in required live view: IE 10, IE 11,		
	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+,		
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+		
Image			
Image Parameters Switch	Yes		
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,		
Image Settings	adjustable by client software or web browser		
Day/Night Switch	Day, Night, Auto, Schedule		
Wide Dynamic Range (WDR)	130 dB		
Image Enhancement	BLC, HLC, 3D DNR, Defog		



SNR	≥ 52 dB	
Privacy Mask	4 programmable polygon privacy masks	
Interface		
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port	
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB	
	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input	
A It -	impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,	
Audio	1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output	
	impedance: 100 $\Omega$ , interface type: non-equilibrium	
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)	
Reset Key	Yes	
Power Output	12 VDC, max. 100 mA	
Event		
	Motion detection (support alarm triggering by specified target types (human and	
Basic Event	vehicle)), video tampering alarm, exception	
	Unattended baggage detection, object removal detection, scene change detection,	
Smart Event	audio exception detection, defocus detection	
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger	
Linkage	recording, trigger capture, trigger alarm output, audible warning	
Deep Learning Function		
Face Capture	Yes	
People Counting	Yes	
	Line crossing detection, intrusion detection, region entrance detection, region exiting	
Perimeter Protection	detection,	
	Support alarm triggered by specified target types (human and vehicle)	
General		
	12 VDC ± 25%, 1.21 A, max. 14.5 W, Ø5.5 mm coaxial power plug, reverse polarity	
Power	protection,	
	PoE: IEEE 802.3at, Class 4, max. 18 W	
Material	Front cover: Metal, body: Metal, bracket: Metal	
Dimension	334 mm × 97.9 mm × 95.7 mm (13.2" × 3.9" × 3.8")	
Package Dimension	386 mm × 190 mm × 180 mm (15.2" × 7.5" × 7.1")	
Weight	Approx. 1085 g (2.4 lb.)	
With Package Weight	Approx. 1639 g (3.6 lb.)	
General Function	Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel counter	
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
Startup and Operating		
Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,	
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,	
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,	
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian	
Approval		
FNAC	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN	
EMC	50130-4: 2011 +A1: 2014	



	UL: UL 62368-1,
Safety	CB: IEC 62368-1: 2014+A11,
	CE-LVD: EN 62368-1: 2014/A11: 2017
Environment	CE-RoHS: 2011/65/EU
Protection	IP67: IEC 60529-2013, IK10: IEC 62262:2002
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)

#### 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.

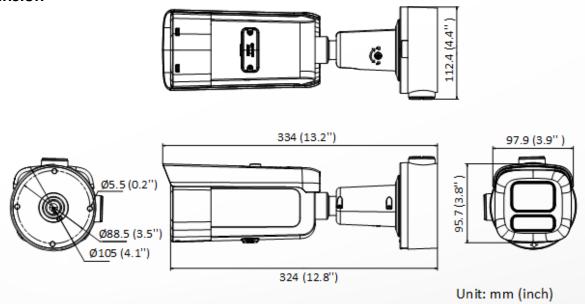
With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

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

DS-2CD3646G2HT-LIZSY(2.7-13.5mm) DS-2CD3646G2HT-LIZS(2.7-13.5mm)

#### Dimension





- Accessory
- Included



## Optional

DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount	DS-1275ZJ-S-SUS Vertical pole mount
# h		

# See Far, Go Further



www.hikvision.com support@hikvision.com















