HK-311324127

Hikvision 4MP powered by DarkFighter Fixed Dome Network camera with 2.8mm lens

Product Overview

Hikvision 4MP Powered by DarkFighter Fixed Dome Network camera with 2.8mm Lens, 2688x1520 maximum Resolution, Up to 30 m IR Light range, Main Stream H.265 / H.264 / H.265+ / H.264+ Video Compression, 1 fixed region for Main Stream and Sub-Stream region of interest (ROI), Up to 6 channels simultaneous live View, 120 dB wide Dynamic range (WDR), BLC, HLC, 3D DNR, 1x RJ45 10M/100M Self-Adaptive Ethernet Port, Built-In Memory card slot up to 512GB, Motion Detection, Face Capture, Perimeter protection, -su, Built-In Microphone, 1x audio Input line, 1x audio Output line, Alarm in / out, DS-2CD2146G2H-ISU(2.8mm)(O-STD)







Specifications

Overview Summary:

Secure your property with the Hikvision DS-2CD2146G2H-I, a high-performance 4MP DarkFighter fixed dome network camera tailored for South African environments. This advanced surveillance unit delivers exceptional low-light visibility and crisp detail, making it ideal for monitoring entrances, driveways, or commercial perimeters day and night.

Equipped with powerful H.265+ compression and wide dynamic range technology, this camera ensures clear images even in challenging lighting conditions while keeping storage requirements efficient. The built-in microphone allows for real-time audio recording, adding an extra layer of security to your monitoring system.

Upgrade your safety infrastructure today and shop now to get reliable protection for your home or business with fast delivery across South Africa.

Performance tier: Professional Grade

Uses: Outdoor surveillance, perimeter protection, driveway monitoring, retail security, residential entryways

Overview:

Hikvision 4MP DarkFighter Fixed Dome Network Camera Overview:

The Hikvision DS-2CD2146G2H-ISU delivers exceptional video surveillance performance with its advanced DarkFighter technology, ensuring crystal-clear images even in the most challenging low-light conditions. This 4-megapixel fixed dome camera combines high-resolution imaging capabilities with intelligent deep learning functions to accurately classify human and vehicle targets, reducing false alarms and enhancing security monitoring efficiency.

Designed for both indoor and outdoor environments, this robust unit features IP67 waterproofing and IK10 vandal resistance, making it suitable for demanding installations. The camera supports efficient H.265+ compression technology to optimize bandwidth and storage usage while maintaining superior video quality. With built-in audio capabilities and versatile connectivity options including PoE support, the DS-2CD2146G2H-ISU offers a comprehensive security solution that adapts to various installation requirements.

Description:

The Hikvision 4MP Powered by DarkFighter Fixed Dome Network Camera (Part Number: HK-311324127) is engineered for superior surveillance performance in all lighting conditions. Key benefits include exceptional low-light imaging with powered-by-DarkFighter technology, clear visibility against strong backlighting thanks to 120 dB true WDR, and intelligent target classification using deep learning algorithms. The camera features a built-in microphone for real-time audio capture, supports up to 512GB local storage via microSD card slot, and provides reliable operation in extreme weather conditions with IP67 and IK10 ratings.

Features:

Key Performance Highlights

- 4 MP resolution (2688 x 1520) for detailed imagery
- DarkFighter technology enables superior low-light performance down to 0.001 Lux in color and 0 Lux with IR illumination
- 120 dB wide dynamic range ensures clear images even with strong backlighting
- H.265+ compression reduces storage requirements while maintaining video quality
- Deep learning capabilities for human and vehicle target classification
- Built-in microphone supports real-time audio recording (-SU model)
- IP67 rated for dust and water resistance with IK10 vandal protection

Lens and Imaging Specifications

The camera comes equipped with a fixed focal lens available in 2.8 mm or 4 mm options, providing flexible field of view choices for different installation scenarios. The 2.8 mm lens offers a horizontal FOV of 100.2 degrees, while the 4 mm variant provides 81.1 degrees horizontal coverage. Both lenses feature an F1.0 aperture for maximum light gathering capability.

- Lens mount: M12
- Iris type: Fixed
- Depth of field (2.8mm): 1.9 m to infinity
- Depth of field (4 mm): 2.5 m to infinity
- DORI distances (2.8mm): Detect 63m, Observe 25m, Recognize 12m, Identify 6m

- DORI distances (4mm): Detect 78m, Observe 31m, Recognize 15m, Identify 7m

Advanced Video and Audio Capabilities
This model supports multiple video streams with flexible frame rates for both 50 Hz and 60 Hz power systems. The main stream delivers up to 25 fps at full resolution (2688 x 1520), while sub-streams provide lower resolutions for remote viewing or bandwidth-constrained environments. Smart supplement light technology intelligently adjusts IR illumination based on scene requirements.

- Main stream formats: H.265, H.264, H.265+, H.264+
- Sub-stream compression: H.265, H.264, MJPEG
- Video bit rate control: CBR or VBR from 32 Kbps to 8 Mbps
- Built-in audio with environment noise filtering (-SU model)
- Audio input and output lines for intercom capabilities
- Region of interest (ROI) configuration for focused encoding

Smart Security Features and Deep Learning:

The camera incorporates advanced deep learning algorithms that enable precise target classification, distinguishing between humans and vehicles to significantly reduce false alarms. Perimeter protection functions include line crossing detection, intrusion alerts, region entrance/exit monitoring, and face capture capabilities for enhanced security applications.

- Motion detection with specified target type filtering
- Video tampering alarm detection
- Scene change detection
- Face capture functionality
- Perimeter protection with customizable zones
- Alarm linkage to NAS, memory card, FTP, email notifications, and audible warnings

Network Connectivity and Storage Options
Versatile network connectivity supports multiple protocols including TCP/IP, HTTP, HTTPS, RTSP, and ONVIF profiles S, G, and T. The camera accommodates up to 32 users with three distinct access levels and offers robust security features including password protection, IP address filtering, and TLS encryption.

- Ethernet port: 1 RJ45 10/100 Mbps self-adaptive
- PoE support: IEEE 802.3af Class 3 (max 8.5 W)
- Local storage: microSD/microSDHC/microSDXC slot up to 512 GB
- NAS support: NFS, SMB/CIFS with auto network replenishment
- Client software compatibility: iVMS-4200, Hik-Connect, Hik-Central

Environmental Durability and Installation Details
Built from high-quality aluminum alloy materials, this camera withstands extreme temperatures ranging from -30degrees C to 60degrees C while maintaining reliable operation in humid conditions up to 95% non-condensing. The compact dome design measures 121.5 mm diameter by 97.6 mm height and weighs approximately 550 grams without packaging.

- PoE power consumption: Maximum 8.5 W
- DCC power requirements: 12 VDC +/-25%, 0.6 A, max 7.2 W
- Protection ratings: IP67 and IK10 compliant
- Dimensions: Ø121.5 mm x 97.6 mm (Ø4.8" x 3.8")
- Package dimensions: 150 mm x 150 mm x 141 mm

What's in the box

- Hikvision DS-2CD2146G2H-ISU Fixed Dome Camera
- Mounting kit with screws and anchors
- User manual and Warranty documentation

- Quick installation guide

Part Number: HK-311324127 | Model: DS-2CD2146G2H-ISU(2.8mm)(O-STD)

Specifications:

© 2026 Respective owners and brand holders. This table has been carefully researched and generated by ComXpert International CC (http://www.comx.co.za), however, errors and omissions may occur. Only references to South Africa apply. All products are sourced in South Africa from the official suppliers and the warranty is that of the local supplier. E&OE. This table and our site's content may be used on condition that this notice and link remains intact and unaltered.

Specifications	
Product Code	HK-311324127
Camera	
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	2688 x 1520
Min. Illumination	Color: 0.001 Lux @ (F1.0, AGC ON), B/W: 0 Lux with IR
Shutter Time	1/3 s to 1 / 100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0degrees to 355degrees,tilt: 0degrees to 75degrees,rotate: 0degrees to 355degrees
Lens	
Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 100.2degrees, vertical FOV 54.7degrees, diagonal FOV 119.7degrees 4 mm, horizontal FOV 81.1degrees, vertical FOV 44.7degrees, diagonal FOV 94.6degrees
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.0
Depth of Field	2.8 mm: 1.9 m to ? 4 mm: 2.5 m to ?
DORI	
DORI	2.8mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m 4mm: D: 78 m, O: 31 m, R: 15 m, I: 7 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (2688 x 1520, 1920 x 1080, 1280 x 720) 60 Hz: 30 fps (2688 x 1520, 1920 x 1080, 1280 x 720)
Sub-Stream	50 Hz: 25 fps (1280 x 720, 640 x 480, 640 x 360) 60 Hz: 30 fps (1280 x 720, 640 x 480, 640 x 360)
Third Stream	50 Hz: 10 fps (1920 x 1080, 1280 x 720, 640 x 480, 640 x 360) 60 Hz: 10 fps (1920 x 1080, 1280 x 720, 640 x 480, 640 x 360) *Third stream is supported under certain settings.

Video Compression	Main stream: H.265 / H.264 / H.265+ / H.264+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 *Third stream is 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)	1 fixed region for main stream and sub-stream
Audio	
Audio Compression	-SU: G.711ulaw / G.711alaw / G.722.1 / G.726 / MP2L2 / PCM / MP3 / AAC-LC
Audio Bit Rate	-SU: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
Audio Sampling Rate	-SU: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	-SU: Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) 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 adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Wide Dynamic Range (WDR)	120 dB
SNR	>= 52 dB
Image Enhancement	BLC, HLC, 3D DNR
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
Built-in Microphone	-SU: Yes
Audio	-SU: 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 Kohm, interface type: non-equilibrium -SU: 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 ohm, interface type: non-equilibrium
Alarm	-SU: 1 input, 1 output (max. 12 VDC, 30 mA)
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Smart Event	Scene change detection
Linkage	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
Power	12 VDC +/- 25%, 0.6 A, max. 7.2 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 8.5 W
Material	Cover: aluminum alloy, main body: aluminum alloy
Dimension	Ø121.5 mm x 97.6 mm (Ø4.8" x 3.8")
Package Dimension	150 mm x 150 mm x 141 mm (5.9" x 5.9" x 5.6")
Weight	Approx. 550 g (1.2 lb.)
With Package Weight	Approx. 800 g (1.8 lb.)
Storage Conditions	-30 degreesC to 60 degreesC (-22 degreesF to 140 degreesF). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 degreesC to 60 degreesC (-22 degreesF to 140 degreesF). 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
General Function	Heartbeat,mirror,flash log,password reset via email,pixel counter,anti-banding
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
Safety	UL: UL 62368-1, 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

FAQ

What lens options are available for this Hikvision DarkFighter camera?
The DS-2CD2146G2H-I(SU) is offered with a fixed focal lens in two optional sizes: 2.8 mm or 4 mm, allowing you to choose the field of view that best suits your surveillance area.

Can this camera record audio and use local storage?
Yes, the -SU model includes a built-in microphone for real-time audio capture and features an onboard memory card slot that supports up to 512 GB of microSD/microSDHC/microSDXC cards for local recording.

How does this camera perform in low-light conditions?
Built with DarkFighter technology, the camera delivers high-quality imaging even at 0.001 Lux (color) or 0 Lux with IR, and features an infrared illuminator with a range of up to 30 meters for night vision.

Does this network camera support Power over Ethernet?
Yes, the camera supports IEEE 802.3af Class 3 PoE, allowing it to receive both power and data through a single Ethernet cable with a maximum consumption of 8.5 W.

What smart detection capabilities does this model offer?
The camera uses deep learning for human and vehicle target classification, enabling features like perimeter protection (line crossing, intrusion), face capture, and motion detection that triggers alarms based on specific target types.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://comx-computers.co.za/HK-311324127-Hikvision-4MP-powered-by-DarkFighter-Fixed-Dome-Network-camera-with-p-342380.php

Images and specifications are provided for reference and are subject to change without notice. E&OE.

Terms of Use: https://comx-computers.co.za/terms-of-use.php
Terms of Sale: https://comx-computers.co.za/terms-of-sale.php

PDF generated: 2026-11-15 21:30:36.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.