



Hikvision DS-2CD2083G2-LI

· Specification summary



Device class	8 MP AcuSense Smart Hybrid Light fixed bullet network camera
Image sensor	1/2.8-inch progressive-scan CMOS optical format; not a measured diagonal.
Maximum image resolution	3840 × 2160 pixels; manufacturer 8 MP class.
Shutter-time range	1/3 s to 1/100,000 s; exposure settings affect motion and low-light results.
Fixed-lens options	2.8 mm, 4 mm or 6 mm fixed-focal lens alternatives; select the required lens. Not motorized zoom or three included lenses.
2.8 mm field of view	Horizontal 108°, vertical 59°, diagonal 127° with the 2.8 mm lens.
4 mm field of view	Horizontal 88°, vertical 44°, diagonal 105° with the 4 mm lens.
6 mm field of view	Horizontal 54°, vertical 29°, diagonal 63° with the 6 mm lens.
Aperture	F1.6 fixed aperture.
Minimum-illumination conditions	Colour 0.005 lux at F1.6 with AGC on; black-and-white 0 lux requires IR assistance. Not ambient-light-only colour imaging at zero lux.
Manual orientation adjustment	Pan 0–360°, tilt 0–90°, rotate 0–360° installation adjustment; not remote motorized PTZ.
Lens mount	M12 lens mount reference; not interchangeable-lens or motorized-zoom entitlement.
Depth-of-field reference	2.8 mm: 1.7 m to infinity; 4 mm: 2.6 m to infinity; 6 mm: 5.8 m to infinity. Lens-specific references, not guaranteed identification distances.
Supplementary light	IR and white-light supplementary illumination, up to 40 m in the manufacturer reference. Scene, exposure and target conditions affect usable coverage.
IR wavelength	850 nm infrared reference, distinct from the visible white light.
Dynamic range	120 dB WDR manufacturer reference.
Signal-to-noise ratio	At least 52 dB in the manufacturer reference.
Image enhancement	BLC, HLC and 3D DNR are listed; not guaranteed identification in every scene.
Full-resolution main stream	20 fps at 3840 × 2160 under both 50 Hz and 60 Hz configurations; not a 25/30 fps full-resolution claim.
Lower-resolution main stream	50 Hz: 25 fps; 60 Hz: 30 fps at 3200 × 1800, 2688 × 1520, 1920 × 1080 or 1280 × 720 as listed.

Sub-stream reference	50 Hz: 25 fps; 60 Hz: 30 fps at 1280 × 720, 640 × 480 or 640 × 360 as listed.
Third-stream reference	10 fps at 1920 × 1080, 1280 × 720, 640 × 480 or 640 × 360 under both frequency configurations, only under certain settings. Confirm the actual stream configuration.
Main-stream compression	H.265, H.264, H.264+ and H.265+ are listed for the main stream. Check the actual recorder/client mode.
Sub-stream compression	H.265, H.264 and MJPEG are listed for the sub-stream.
Third-stream compression	H.265 and H.264 are listed for the third stream, only under certain settings. No plus-codec entitlement is inferred on that stream.
Video bitrate range	32 Kbps to 16 Mbps configurable video bitrate; not guaranteed internet throughput or recording duration.
Region of interest	One fixed ROI region is listed for the main stream and sub-stream.
Scalable video coding	SVC is listed for H.264 and H.265 encoding; check actual recorder/client capabilities.
Privacy masks	Eight programmable polygon privacy masks; check actual configuration.
Ethernet interface	One self-adaptive 10/100 Mbps RJ45 port; not Gigabit Ethernet.
On-board storage	A microSD/microSDHC/microSDXC slot up to 512 GB is listed for this exact model. A memory card is not assumed included; capacity alone does not determine retention days.
Reset key	A reset key is explicitly listed for this exact model.
Protocol-profile reference	The manufacturer lists Profiles S and G for Open Network Video Interface, plus ISAPI, SDK and ISUP. Confirm actual recorder/VMS functions; this is not universal interoperability.
Network-storage reference	NAS using NFS or SMB/CIFS and Auto Network Replenishment (ANR) are listed. Check actual recorder, storage and configuration; no storage service is assumed included.
Memory-card security condition	The source ties memory-card encryption and health detection to high-end Hikvision memory cards. Do not assume every card provides those functions; confirm the actual card and firmware.
Target-filtered motion events	Motion detection supports triggering by specified human or vehicle target types; video tampering and exceptions are listed. This does not establish identity recognition.
Perimeter event reference	Line crossing, intrusion, region entrance and region exiting are listed with human/vehicle target-trigger filtering. Confirm scene and recorder configuration; no detection-accuracy guarantee.
DC power input	12 V DC ±25%, 0.5 A; max. 6 W. Reverse-polarity protection and a 5.5 mm coaxial power plug are listed; confirm the regulated supply.
PoE power input	IEEE 802.3af, Class 3; max. 7.5 W reference. Size the supplying switch for connected loads; this camera is not a PoE power output.
Housing material	Metal is listed as the material; this does not establish corrosion or impact resistance.
Body dimensions	Diameter 74.4 mm × overall length 176.3 mm. The exact-model dimension diagram agrees with the table; fixing circles and package dimensions are separate.

Package dimensions	234 mm × 120 mm × 117 mm package reference; not the camera body or fixing layout.
Net weight reference	Approx. 515 g in the camera weight row; not packaged shipping weight.
Packaged weight reference	Approx. 760 g in the packaged weight row; verify actual packing and contents before shipping.
Operating conditions	Startup and operation: -30 to 60 °C, humidity 95% or less, non-condensing. Check actual site environment and power.
Storage conditions	-30 to 60 °C, humidity 95% or less, non-condensing, in the storage-conditions row.
Ingress protection	IP67 is listed; not impact resistance, anti-corrosion performance or approval for every wet location.
Anti-corrosion category	No specific anti-corrosion protection is assigned in the manufacturer application table. Check corrosive or coastal-site suitability separately.
Optional mounting references	Optional DS-1275ZJ-SUS pole mount, DS-1280ZJ-XS junction box and DS-1276ZJ-SUS corner mount are listed. They are not included or an ISD installation service; verify the exact mounting assembly.

Specifications are summarised from the manufacturer's published information (checked 2026-10-20). They describe the cited version only. Confirm the exact model, suffix and supplied revision before ordering. ISD confirms supply, price, availability and warranty separately.

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