

DS-MCH508D Helmet Camera



- Up to 1080p/30 fps recording resolution
- H.264/H.265
- IR light supplement
- Wide-range lens with 102° horizontal FOV
- IP67
- The battery is dismountable
- Rotatable lens to adjust angle ($\pm 90^\circ$)

▪ Specification

CPU	
CPU	Single core, 32 bit, Main frequency: 0.96 GHz
Camera	
Max. Recording Resolution	1920 × 1080
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.03 Lux @ (F2.4, AGC ON), 0 Lux with supplement light
Day & Night	Switch IR cut filter automatically
Zoom	Not supported
Lens	
Focal Length	2 mm fixed lens
FOV	Horizontal FOV: 102°, Vertical FOV: 55°, Diagonal FOV: 124°
Aperture	F2.4
Video	
Video Compression	H.264, H.265
Main Stream	30 fps (1920 × 1080, 1280 × 720, 720 × 576)
Sub-Stream	30 fps, 15 fps, 5 fps (1280 × 720, 720 × 576)
Video Format	PS, MP4
Audio	
Audio Compression for Video Recording	G722.1, AAC
Audio Compression for Group Intercom	G711.A, G711.MU, G722.1
Audio Bit Rate	G711.A (64 kbps), G711.MU (64 kbps), G722.1 (16 kbps), AAC (64 kbps)
Image	
Image Format	JPEG
Image Resolution	5 MP, 16 MP, 30 MP, 40 MP
Image Stabilization Algorithm	
Image Stabilization Algorithm	Not supported
Screen	
Screen Size	0.88"
Display Resolution	128 × 32
Screen Brightness	Typical value: 150 cd/m ²
Storage	
Capacity	32 GB eMMC
RAM	128 MB
IR	
IR Range	Up to 10 m
IR Wavelength	940 nm
Wireless Network	
Bluetooth	BT4.0

Wi-Fi Protocol	IEEE 802.11 b/g/n
Positioning Mode	GPS
Cellular Network	Only available for models with /GLE: GSM: 850/900/1800/1900 WCDMA: B1/B8 FDD-LTE: B1/B3/B5/B7/B8/B20/B28 TDD-LTE: B38/B40/B41
NFC	Not supported
Network	
Protocol	HTTPS, RTSP, NTP, FTP
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP 5.0
Security	
Encryption	AES128/AES256
Watermark	Supported
Interface	
USB	1 USB 2.0 port(s)
Indicator	1 Dual color Indicator for Charging/Working/Recording/Exception
Button	Power, Fn
SIM Card	Only available for models with /GLE: 1 (Nano-SIM)
Charging Interface	Type-C
Event	
Smart Event	Fall detection
Group Intercom	
Group Intercom	Not supported
General	
Operating System	Linux
Power	5 V DC, 2 A, max. 10 W
Vibration Motor	Supported
Operating Condition	- 20 °C to 55 °C (- 4 °F to 131 °F). Humidity 95% or less (non-condensing)
Dimensions	94 mm × 54 mm × 48 mm (3.7" × 2.3" × 1.9")
Weight	233 g (without mounting) (0.51 lb.)
MIC	Supported
Gyroscope	Supported
Speaker	Not supported
Battery	
Capacity	2700 mAh
Battery Type	Lithium-ion battery, dismountable
Charging Time	≤ 4 h
Battery Duration	Up to 11 h in 720p resolution ¹
Approval	
RF	EN 301489-1 V2.2.3 EN 301489-3 V2.1.1 EN 301489-17 V3.2.4 EN 301489-52 V1.2.1 EN 301 489-19 V2.2.1 EN 300328 V2.2.2 EN 303413 V1.2.1 EN 300330 V2.1.1 EN 50360: 2017 EN 50566: 2017 EN 300 440 V2.1.1 EN 301908-1 V15.1.1 EN 301 908-13 V13.1.1
EMC	EN 55032: 2015/A11: 2020 + A1: 2020, EN IEC61000-3-2: 2019/A1: 2021, EN 61000-3-3: 2013 + A1: 2019/A2: 2021, EN 50130-4: 2011 + A1: 2014
Safety	CB: IEC 62368-1: 2014 + A11, IEC 62368-1: 2018 CE-LVD: EN 62368-1: 2014/A11: 2017
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67

Drop Test	
Drop Test	MIL-STD-810G, 2 m drop test
Warranty	
Warranty	2 years for the device without battery, 1 year for the battery

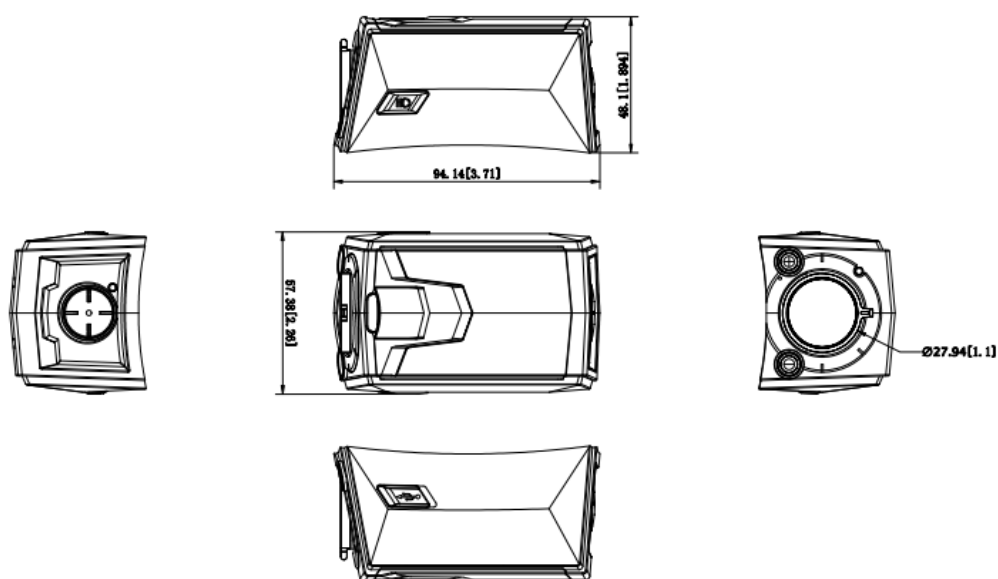
1: This is a basic estimation of battery working life only when recording is on. Additional power consumption should be considered when IR, GPS, and/or network connection is on.

▪ Available Model

DS-MCH508/3/I/32G/GPS/WIFI(D)

DS-MCH508/3/I/32G/GLE(D)

▪ Dimension



Unit:mm [inch]

SCALE 1:1

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