

4G Smart Helmet MH1 series

System functions:

- 4G all network communication, supporting 3G / 4G / WIFI / Bluetooth
- Android 8.1 platform quad core 1.5GHz, 16GB + 2GB memory
- 2 million CMOS, supporting 1080p image transmission
- Built in dual speaker, dual mic, support two-way voice call
- With keys such as SOS, photo, LED white light, intercom, switch, etc
- Infrared night vision, automatic and manual switching to see the face in 3m
- Abnormal alarm, battery undervoltage alarm, storage abnormal alarm
- GPS +IBS base station combination, real-time positioning
- DC3.7V 2000mAh built-in battery, which can work for 5 hours normally
- SOS One touch alarm, realizes real-time video upload to command center
- The products are available in red, blue, yellow, orange and white
- The structural reliability meets the national safety helmet standard, anti-magnetic interference: Level 1
- complies with RoHS and SGS materials, explosion-proof standards and other certifications

Application scenario:

MH1 is a 4G Intelligent Site Enforcement Recorder with video and audio codec, 3G / 4G, WIFI wireless network transmission, Bluetooth, satellite positioning and other functions. It is suitable for various law enforcement environments in public security, justice, transportation, energy, fire protection, construction and other industries.

Model :

MH1

Product picture:



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Technical parameters:

Parameter		4G smart helmet MH1 series
Hardware information	processor	MT6739CW quad core 64 bit 1.5GHz
	Memory	16GB ROM + 2GB RAM
	TF storage	Up to 128GB
	SIM card slot	Support nano card, use single card for single standby
	IMU (gyroscope)	IMU function
	White lighting	White light power 1W
	Audio	3.5mm interface, supporting earphone insertion detection, and closing the speaker and pickup provided by the body
	Speaker	Speaker: 2; 2W each
	Pickup	Support dual mic and voice noise reduction
	Battery capacity	3.7V 2000mAh polymer core
	Function buttons	1.SOS emergency call 2. Switch & reset key 3 .Camera switch: press once to take photos, long press to turn video recording on or off 4.The LED switch can also turn on the LED when it is not turned on 5. Intercom switch, short press intercom, long press hard listen 6.Press and hold the intercom (3) button and camera (3) button at the same time to open Bluetooth pairing
	Working status light	9 pieces
	Battery status light	Three buttons in red, yellow and green, indicating charging, charging completion and low working battery
	SYS LED	Three buttons in red, yellow and green , indicating the system is normal, wearing safety helmet, uploading video and voice
	Network status light	Three buttons in red, yellow and green , indicating have network, no network, poor network
Maximum power consumption state	Enable the function of real-time data call + positioning + video, and can keep working for 3.5H	
General working state	Turn on the function of real-time data call + positioning can keep working for 5h (typical scenario)	
Low power state	Only open the positioning can keep working for 24 hours	
Reliability	IP grade	Comply with IPX5 protection level requirement in GB4208-2008
	Environment	Suitable for working environment of - 20 °C to 60 °C and humidity less than 90%
	Anti-falling height	2m
	structure performance	Comply with the test items of national safety helmet GB / t2811-2007
Structure	size	294.1*234.8*152.7mm(L * w * h)

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	Weight	Without cap lining 522g
	Key	Have 7 independent physical buttons on both sides of the machine, one button photographing, one button video, one button recording, and related operations (marking key, SOS key, PTT intercom key)
	Materials	Cap body ABS
Video and picture parameter	Video input	Camera resolution 1920 * 1080
	Video transmission	Real time video transmission over 4G network 1080p / 15 frame, 720p / 25 frame, d1:30 frame. Rate adjustable
	Record	Encoding mode: H.264, hard encoding, Resolution: 1080p / 30 frame, 720p / 30 frame It supports the function of pre-recording and extension, with optional settings Rate adjustable Watermark overlay: time date, location information and custom coding
	Video format	MP4
	Picture format	Maximum output pixels ≥ 2 million, saved in JPG file format
Photograph	Sensor	CMOS
	Shutter	Electronic shutter
	Infrared night vision	Automatic infrared night light on / off, automatic switching
	White balance	automatic
Position	Satellite positioning	Support GPS + lbs base station positioning, and 50s cold start positioning is successful
Wireless transmission	2G/3G/4G Realtime transmission	LTE all network communication ,support 2G / 3G / 4G band of all domestic operators and diversity antenna. Domestic band all Netcom band demand: GSM/EDGE : B2/B3/B5/B8 CDMA: CDMA800 EVDO: BC0 WCDMA : B1/B5/B8 TD-SCDMA : B34/B39 FDD-LTE: B1/B3 TD-LTE: B38/B39/B40/B41(2555~2655)
	WIFI	Support 2.4g/5g switching and 802.11b/g/n
	BT	Bluetooth 4.1
Charging mode		Support fast charging, special adapter, USB interface charging and vehicle charging, DC 5V, 2000mA
Battery		Detachable structure design, supporting continuous battery replacement, 4.35v high-voltage cell, 2650mahw
Storage capacity		The factory default storage space is 32GB, the recording time is not less than 8 hours, and the storage time is not less than 3000 pieces . 2GB of running memory, supporting the expansion capacity of TF card up to 128GB (optional)
Operating system		Andriod8.1
Electromagnetic compatibility (EMC) test		Test according to the limits and measurement methods defined in GBT 22450.1-2008

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Material human health standard	RoHS and SGS compliant
Hat body safety	Passed the inspection of National labor protection products quality supervision and inspection center
Explosion proof standard	Explosion proof IICT4; Provide test report (UN38.3, MSDS) and quality commitment .
Anti-magnetic interference: Level 1	Test standard : GB / t17626.8-2006
Operating temperature requirements	When the working temperature reaches 60 °C, only the GPS information is uploaded, and all unnecessary modules are closed
Charging and discharging temperature requirements	The charging temperature of the battery is 0 °C ~ + 60 °C, and the discharging temperature is - 20 °C ~ + 60 °C