

# MQS1

v 1.0

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Power By MettaX

Version Control				
Version	Date	Content	Modified By	Approver
V1.0	2025-01-20	1. First release	Wick	

# 1. Basic Parameters

Hardware specification	Operating system	Android 12.0
	SOC chip	MT6769 8 Cores CPU 64 bit, 2GHz. 12nm
	Internal storage	3G + 32G eMMC(4+64/4+256 for optional)
Main Camera	Effective pixels	4-Megapixel
	Video resolution	2560×1440/30fps 1920×1080/30fps 1280×720/30fps
	Video format	MP4
	Compression	H.264/H.265
	Dual-stream	Support hard-coded dual stream
	Photo format	JPG, 48 Megapixel
Secondary/rear camera	Secondary camera	8MP
	Rear camera	2MP
Audio parameter	Audio format	AAC/G711/OPUS/MP3
	Audio sampling rate	48kHz
	Audio compression rate	128kbps
Network parameter	Bluetooth	Built-in
	Position	Support GPS/BDS/GLONASS(optional)
	WiFi	2.4G/5.8G Wifi 5 ac, support IEEE802.11 ac/a/b/g/n
	4G	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28A
		LTE TDD: B34/B38/B39/B40/B41
		WCDMA: B1/B5/B8
Others	Display	3.0 inches HD touchscreen(480*800)
	SIM card	Built-in, Nano card
	TF card	Built-in, TF-Card/64GB( scalable to 256GB)
	G-Sensor	Built-in
	NFC	Support(optional)
	USB	Type-C
	Flash light	Built-in
	Laser light	Support(optional)
	Red and blue warning lights	Built-in
	IR night vision	4 infrared lights, the recognition range can reach 3 meters for faces, and the detection range can reach 10 meters for human body

	Voltage	3.8V
	Discharge voltage	3V
	Charging voltage	4.35V
	Microphone	2 x MIC
	Audio Amplifier	1.5W
	Side key	Power/Photo/PTT/Video/Audio/ Snapshot/SOS/M keys
Battery Parameter	Battery capacity	3400mAh, removable polymer lithium battery
	Continuous electricity system	Built-in small battery, supports battery replacement without power failure
	Charging time	5V/2A, the battery charging time should be less than or equal to 3h
Environmental condition	High temperature working time	+55℃: 4h
	Low temperature working time	-20℃: 2h
	Working temperature	-20℃ ~ +55℃
	Working humidity	40%-90%
	Storage temperature	-40℃ ~ +60℃
	IP grade	IP66
	Drop test	2M
Dimensions		98.8 x 59.2 x 25.4mm
Weight		170g(camera), 191g(camera+clip)

## 2. Production introduction



MQS1 is using the deeply customized Android12.0 system, high-performance CPU, low power consumption, and long battery life. It integrates HD image transmission, cluster scheduling, AI technology, third-party application expansion and other special functions; it can support access to third-party platforms, and can also cooperate with the MettaX's multimedia communication system platform to realize mobile individual remote dispatching command functions. Can be widely used in public security, inspection, law, division, insurance, industry and commerce, taxation, electric power, railway and other law enforcement agencies.

### 3. Features

- ✓ High performance: high-performance CPU, octa-core 2.0Hz main frequency, Android 12 deeply customized system platform;
- ✓ High-definition video recording: supports multiple resolutions such as 2K/1080P, and adopts ultra-low bit rate transmission and hard-coded dual bit rate design;
- ✓ HD screen: 3.1 inch HD touch screen, resolution up to 480\*800;
- ✓ Video compression: Support H.265, saving nearly 50% storage capacity compared with H.264, smooth transmission and higher efficiency;
- ✓ Cluster scheduling: It can realize two-way audio/video intercom and single call, group call, temporary group intercom;
- ✓ Multimedia communication: support shot and transmission, scan code associated video, work order associated video, TTS, SMS, file sending and receiving, etc.;
- ✓ File upload: support manual/automatic upload of files to the cloud server, and support the function of resuming upload from breakpoints;
- ✓ Secondary development: Provide SDK and other secondary development interfaces

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