MS-HQ0930 DATA SHEET

Three-Lens 4G Solar AOV Security Camera



White

Category	Parameter	Specification
Core Features	AOV 24/7 Recording	Records at a low frame rate between events and switches to a higher frame rate upon human detection.
	3 Lenses, 3 Full HD Views	Three simultaneous 1920 × 1080 views.
	3 PTZ Heads, 6 Motors	Three camera heads with independent pan and tilt control.
	Full-Color Night Vision	Available
Basic Features	Solar Power & Battery	Two 7.5 W solar panels (15 W total) and a 12,000 mAh rechargeable battery.
	Video Encoding	H.265+
	Two-Way Audio	Full-duplex voice communication.
	Local Recording	TF (microSD) card support up to 256 GB.
AI Features	Human Detection & Tracking	Human detection up to 40 m and human tracking with 1.0 TOPS AI processing.
Product Identification	Product Model	MS-HQ0930
	Product Name	Three-Lens 4G Solar AOV Security Camera
	Factory Motherboard Model	X63F
	Export Versions	Asia LTE (AS) and Europe LTE (EU). All other confirmed product features are shared.
System	Main Processor	High-performance dual-core processor
	Operating System	Embedded Linux
	AI Computing Power	1.0 TOPS
Video & Imaging	Image Sensor	Three 1/3-inch CMOS channels
	Image Channels	3
	Resolution	3 × 2 MP (1920 × 1080 per channel)
	Physical Lens Count	3
	Focal Length	3 × 4 mm

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Video & Imaging	Video Compression	H.265+
	Video Frame Rate	10 fps
	Video Bitrate	135–2048 kbps
	Video System	PAL 50 Hz / NTSC 60 Hz
	Minimum Illumination	Day mode: 1 lux. Night vision mode: 0.01 lux.
	Snapshot Function	Supported
Pan & Tilt	PTZ Heads	3 independently controlled heads
	Motor Count	6
	Pan Range	Center: 355°. Left and right: 180° each.
	Tilt Range	90° per head
	Preset Positions	6
	Guard Position	Supported
	Position Calibration	Automatic calibration
Audio	Audio Input	Analog microphone
	Microphone Rating	−42 dB
	Audio Output	4 Ω speaker, 3 W max.
	Audio Compression	G.711U
	Two-Way Audio	Full-duplex
	Echo Cancellation	Supported
Night Vision	Illumination	Dual-light board support
	Night Vision Modes	Full color (AS and EU).
Detection & Alarm	Detection Type	AI human detection
	Human Detection Range	Up to 40 m
	Human Detection Accuracy	99.88%
	Human Tracking	Supported
	Vehicle / Pet Detection	Vehicle and pet detection
	Custom Alert Zones	User-defined detection area
	Audible & Light Alarm	Human-triggered audible and light alarm with a compatible dual-light board .
	Alarm Sound	Built-in alarm sound

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AOV & Recording	Recording Modes	AOV continuous recording and human-triggered recording
	AOV Capture Interval	1 second per frame
	Event Video Frame Rate	Higher frame rate upon human detection
	Event Switching Time	As fast as 50 ms after human detection
	Recording Destinations	TF (microSD) card. Paid cloud recording.
Network & Pairing	Connectivity	4G LTE
	Device Addition	Scan code to add the device
	Server Connection	Automatic connection after power-on
	Connection Protection	Disconnection protection and fault detection
Power	Power Supply	Rechargeable lithium battery with solar charging
	Battery Nominal Voltage	3.7 V
	Battery Capacity	12,000 mAh (6 × 2,000 mAh)
	Working Current	380 mA ± 10 mA
	Solar Panel Power	15 W total
	Solar Panel Configuration	2 × 7.5 W
	Solar Charging Voltage	5 V
	Solar / Charging Connector	USB Type-C
Storage & Services	Memory Card Type	TF (microSD)
	Maximum Card Capacity	256 GB
	Memory Card File System	FAT32
Environment & Protection	Installation Environment	Outdoor
	Operating Temperature	−20 °C to +70 °C
	IP Rating	IP66
APP	App Platform	HiEasy
	App Languages	Simplified Chinese, Traditional Chinese, English, Finnish, Korean, French, Portuguese, Thai, Spanish, Polish, Indonesian, German, Italian, Russian, Japanese, Vietnamese, Arabic, Turkish.
Dimensions & Packaging	Housing Color	White
	Solar Panel Dimensions	18 × 24 cm per panel
	Quantity per Carton	8 pcs
	Carton Dimensions	64.5 × 44.5 × 52.5 cm
	Carton Gross Weight	22 kg
Accessories	Solar Panels	2 × 7.5 W

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