MS-HQ0940 DATA SHEET

Four-Lens AOV Security Camera



White · Solar 4G (Asia / Europe) · DC 12V-powered version available

Category	Parameter	Specification
Core Features	AOV 24/7 Recording	Continuous low-frame-rate recording with a higher frame rate on human detection.
	Four 1080p Full HD Views	Four 4mm lenses deliver four separate 1920 × 1080 video views.
	3 PTZ Heads, 6 Motors	One fixed lens and three independently controlled pan-and-tilt heads.
	AI Human Detection & Tracking	Detects people and tracks their movement automatically.
Basic Features	H.265+ Video Encoding	H.265+ video compression.
	Full-Color Night Vision	Captures nighttime footage in color.
	Two-Way Audio	Full-duplex voice communication with echo cancellation .
	Local Recording	Supports optional TF cards up to 256GB on the Solar 4G version.
	15W Solar Charging	Two 7.5W panels and a 12,000mAh battery on the Solar 4G version.
AI Features	AI Processing & Detection Range	1.0TOPS AI processing with human detection up to 40m.

Website: icseecam.com Email: info@icseecam.com

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Product Identification	Product Model	MS-HQ0940
	Product Name	Four-Lens AOV Security Camera
	Motherboard / Module Model	X84F
System	Main Processor	High-performance dual-core processor
	Operating System	Embedded Linux
	AI Processing	1.0TOPS
Video & Imaging	Image Sensor	Four 1/3-inch CMOS sensors
	Image Channels	4
	Resolution	4 × 2MP Full HD (1920 × 1080 per channel)
	Physical Lens Count	4
	Focal Length	4 × 4mm
	Zoom	12× zoom
	Video Compression	H.265+
	Video Frame Rate	10fps
	Video Bitrate	135–2048kbps
	Video System	PAL 50Hz / NTSC 60Hz
	Minimum Illumination	Day mode 1 lux / night vision mode 0.01 lux
	Snapshot Capture	Supported
Pan & Tilt	Fixed Views / PTZ Heads / Motors	1 fixed view / 3 pan-and-tilt heads / 6 motors
	Independent Pan and Tilt	Left, right and lower heads
	Pan Range	Lower head 355° / left and right heads 180° each
	Tilt Range	90° per motorized head
	Preset Positions	6 preset positions
	Guard Position	Supported
	Position Calibration	Supported
Audio	Audio Input	Analog microphone
	Audio Output	4Ω / 3W max. speaker configuration
	Audio Compression	G.711U
	Two-Way Audio	Full-duplex
	Echo Cancellation	Supported
Night Vision	Illumination	Dual-light boards supported
	LED Count	9 white LEDs and 14 IR LEDs
	Night Vision	Full-color night vision
	Night Vision Modes	Black & white, full color, smart and starlight (full color hidden by default)

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Detection & Alarm	Detection Type	AI human detection
	Human Detection Range	Up to 40m
	Human Detection Accuracy	99.88%
	Human Tracking	Supported
	Audible & Light Alarm	Human-triggered; requires dual-light boards
	Alarm Sound & Actions	Built-in alarm sound, linked recording and snapshots
Recording	Recording Modes	AOV continuous recording / human-triggered recording
	AOV Frame-Rate Behavior	Low frame rate between events; increases on human detection
	Event Switching Time	As fast as 50ms
Network & Pairing	Solar 4G Asia Version	4G LTE / solar and battery power
	Solar 4G Europe Version	4G LTE / solar and battery power
	Device Addition	Scan a code to add the device
	Server Connection	Automatic server connection after power-on
	Data Top-Up & Inquiry	Supported
	Connection Protection	Disconnection protection and fault detection
Power	Solar 4G Power Supply	Solar panels and a rechargeable lithium battery
	DC 12V Power Supply	DC 12V continuous power (optional version)
	Battery Capacity	12,000mAh (6 × 2,000mAh)
	Battery Supply Voltage	3.7V nominal
	Working Current	420mA ± 10mA
	Solar Panel Configuration	2 × 7.5W (15W total)
	Solar Charging Input	5V
	Solar Connection	USB Type-C
Storage & Services	Memory Card Type	microSD / TF card (optional)
	Maximum Card Capacity	256GB
	Memory Card File System	FAT32
	Cloud Recording	Supported with a paid plan
Environment & Protection	Installation Environment	Outdoor
	Operating Temperature	−20°C to +70°C
	IP Rating	IP66

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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
	Quantity per Carton	8 pcs/carton
	Carton Dimensions	64.5 × 44.5 × 52.5cm
	Carton Gross Weight	22kg/carton
Accessories	Solar Panels	2 × 7.5W panels
	Memory Card Supply	Optional TF card

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