MS-HQ0950 DATA SHEET

Five-Lens 4G Solar AOV PTZ Security Camera



Category	Parameter	Specification
Core Features	Five Lenses, Four Full HD Views	Five physical lenses with four 1920 × 1080 (2MP) video streams.
	Three PTZ Heads, Six Motors	One fixed view and three independently adjustable pan-and-tilt heads.
	Dual-Lens Hybrid Zoom	The main PTZ head combines 4mm and 12mm lenses with digital magnification.
	AOV 24/7 Recording	Records at a low frame rate between events and switches to full-frame recording on human detection.
	15W Solar Charging	Two 7.5W solar panels charge a built-in 12,000mAh battery.
Basic Features	H.265+ Video Encoding	H.265+ video compression.
	Full-Color Night Vision	White LED illumination provides color video after dark.
	Full-Duplex Two-Way Audio	Two-way voice communication with echo cancellation.
	Local and Cloud Recording	Optional TF card up to 256GB. Paid cloud recording supported.
AI Features	Human Detection and Tracking	Detects people up to 40m away and supports automatic human tracking.
	Detection-Linked Alerts	Supports push notifications, audible and light alarms, and linked recording and snapshots.
Identification	Product Model	MS-HQ0950
System	Main Processor	High-performance dual-core processor
	Operating System	Embedded Linux
	AI Computing Power	1
Video & Imaging	Image Sensors	Five 1/3-inch CMOS sensors
	Image Channels	4
	Video Resolution	1920 × 1080 (2MP) per channel, four channels
	Physical Lens Count	5
Video & Imaging	Focal Length	4mm × 4 + 12mm × 1
	Aperture	F2.0
	Zoom Type	Dual-Lens Hybrid Zoom

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Video & Imaging	Maximum Zoom	18× Hybrid Zoom
	Video Compression	H.265+
	Video Frame Rate	10
	Video Bitrate	135–2048kbps
	Video System	PAL 50Hz / NTSC 60Hz
	Minimum Illumination	Day 1lux / night vision 0.01lux
	Snapshot Capture	Supported
Pan & Tilt	Fixed Views	1
	PTZ Heads	3
	Motor Count	6
	Horizontal Pan	Left and right heads 180° each. Main head 355°.
	Vertical Tilt	90° per PTZ head
	Preset Positions	6
	Guard Position	Supported
Audio	Audio Input	Analog microphone, −42dB
	Audio Output	4Ω speaker, up to 3W
	Audio Compression	G.711U
	Two-Way Audio	Full-duplex
	Echo Cancellation and Noise Reduction	Supported
Night Vision	Illumination	White LED and infrared illumination
	LED Count	9 white LEDs and 14 IR LEDs
	Night Vision Modes	Infrared black and white, full color, smart and starlight
Detection & Alarm	Detection Type	AI human detection
	Human Detection Range	Up to 40m
	Human Detection Accuracy	0.9988
	Human Tracking	Supported
	Audible and Light Alarm	Human-detection trigger. Requires dual-light boards.
	Alarm Sound	Built-in alarm sound
	Alarm Actions	Linked video recording and snapshots
	App Push Notifications	Supported
	Email Alerts	Advertised in the tracking image

Category	Parameter	Specification
Recording	Recording Modes	AOV 24/7 recording and human-triggered recording
	Event Video Frame Rate	Full-frame recording after human detection
	Event Switching Time	As fast as 50ms
	Recording Destinations	microSD / TF card and paid cloud storage
Network & Pairing	Connectivity	4G LTE
	Available 4G Standards	AS / EU
	SIM Connectivity	Physical SIM slot. Cloud SIM advertised as a subscription option.
	Device Addition	Scan the device code in the app
	Server Connection	Automatic server connection after power-on
	Data Top-Up and Inquiry	Supported
	Connection Protection	Triple disconnection protection and fault detection
Power	Power Supply	Built-in 3.7V lithium battery with solar charging
	Battery Capacity	12,000mAh (6 × 2,000mAh)
	Working Current	440mA ± 10mA
	Solar Panel Total Power	15W
	Solar Panel Configuration	2 × 7.5W
	Solar Charging Voltage	5V
	Solar Panel Type	Monocrystalline silicon
	Charging Port	USB Type-C
Storage & Services	Memory Card Type	microSD / TF
	Maximum Card Capacity	256GB
	Memory Card File System	FAT32
	Cloud Recording	Supported. Paid subscription required.
	Cloud / Data Trial Terms	Free cellular data advertised on selected marketplace SKUs.
Environment & Protection	Installation Environment	Outdoor
	Operating Temperature	−20°C to +70°C
	IP Rating	IP66
APP	App Platform	HiEasy
	Mobile Operating Systems	iOS / Android
	App Languages	Simplified Chinese, Traditional Chinese, English, Finnish, Korean, French, Portuguese, Thai, Spanish, Polish, Indonesian, German, Italian, Russian, Japanese, Vietnamese,
Dimensions & Packaging	Housing Color	White
	Quantity per Carton	8 pcs
	Carton Dimensions	64.5 × 44.5 × 52.5cm
	Carton Gross Weight	23kg
Accessories	Solar Panels	Two 7.5W panels (15W total)