



Core Features	•AOV low-frame-rate all-day recording	
	•High optical zoom lens, capturing details from hundreds of meters away	
Basic Features	•Dual image sensors with ultra-wide-angle + high optical zoom lens, wide view, long distance, clear image	
	•Motion detection + PIR infrared sensing, more accurate activity triggering, suitable for various usage scenarios	
	• 14W monocrystalline silicon solar panel for powerful charging, built-in 20800mAh large-capacity lithium battery for long-lasting battery life	
	•Built-in microphone and speaker, supports full-duplex two-way voice intercom	
	•Supports cloud storage and local TF card storage	
	•APP supports Android/iOS, product is stable and reliable	
	•Dual solar panel mounting design, compact size, low shipping cost, IP66 outdoor waterproof	
AI Features (Motion Detection Enabled)	•Center adjustable bracket design with 2M extension cable, suitable for various installation scenarios	
	•Supports multiple network configuration methods (Bluetooth, QR code scan), simple operation	
	Human Detection	Enable to track human traces and reduce false alarms
	AI Vehicle tracking	AI Defensing with Instant Focus
Product Name	AOV Optical Zoom Solar Low-Power Camera	
Model	MS-637-10M-AOV	
System	Main Chip	Ingenuic T33VN
	System	Linux/RTOS
Video	Image Sensor	Image Sensor
	Lens	Dual CMOS sensor 1/2.9 inch
	Live Stream Preview	Fixed camera: 2.8mm / PTZ camera: 4.9-47.04mm
	Video Compression Standard	Recording: HD (2304*1296/15fps); SD (640*360/15fps) Snapshot: 5mp
	Fill Light	H.264/H.265
Audio	Audio Input	6 high-power LEDs (infrared + white light)
	Audio Output	Supported
	Half-duplex/Full-duplex Two-Way Voice Call	Supported
Night Vision Mode	Super Night Vision	AOV alarm/wake-up recording uses white light fill light (AOV snapshot mode uses infrared fill light, fill light status: infrared flashing)
	Black and White Night Vision	AOV snapshot and alarm/wake-up recording both use infrared fill light, AOV night snapshot infrared flashes
AOV Frame Rate (Configurable)	1S, 2S, 3S, 5S, 10S, 20S, 30S, 60S (Shorter snapshot intervals result in higher video quality)	
AOV Performance	AOV Snapshot Time	Approximately 100ms
	AOV Average Current (1/1 FPS)	Approximately 30mA (TBD)
	AOV Average Current (1/3 FPS)	Approximately 20mA (TBD)

Network	Network Module	Custom low-power LTE module
	Applicable Regions (4G module version optional)	Middle East, Southeast Asia, US version, EU version, Australia version, and global version
	SIM	Nano SIM
PIR	PIR Detection Distance	12 meters, 5 adjustable levels
	False Alarm Filtering	Motion detection + human detection to filter false alarms
Network Configuration Methods	Network Configuration Methods	Supports Bluetooth addition, QR code scan addition
Recording Modes	Normal Recording	15fps
	Time-Lapse Recording	Low-frame-rate recording (frame rate configurable, default 1 frame every 3 seconds)
Power Supply Method	Built-in Battery	Capacity 20800mAh
	Solar Power Supply	External 14W (7W+7W) solar panel
	Power Management	Default: AOV disabled when battery below 30%, entering low power mode; PIR and APP remote wake-up available
Value-Added Services	4G Data Service	7 days free unlimited trial, recharge required after 7 days
	Cloud Storage Service	Free 1-month cloud storage trial available upon first device activation
Indicator Lights	Device Working Status Indicator	Solid blue when awake; blue flashes in AOV snapshot mode; off in low power sleep mode
	Charging Indicator	Solid green while charging; off when fully charged
Other	TF Card Storage	Supports TF Card 4GB-128GB
	Waterproof Rating	IP66
Operating Environment	Operating Temperature	-20°C ~+65°C
	Operating Humidity	≤80%RH
APP	APP Name: UboxPro	
Package	Net weight	2.1KG
	Color box size	247*181*155mm
	Qty	8pcs
	Gross weight	18kg
	Carton size	54*40*38CM