



Core Features	•AOV low-frame-rate all-day recording •High-magnification optical zoom lens – capture details hundreds of meters away			
Basic Features	•Dual image sensors with ultra-wide-angle + high-magnification optical zoom lens – see wide, far, and clear •Motion detection combined with dual PIR infrared sensing – accurate event triggering, suitable for various usage scenarios •Equipped with 2 laser lights for night vision – 50m clear night vision •14W monocrystalline silicon solar panel for efficient charging, built-in 20,800mAh high-capacity lithium battery – long-lasting battery life •Built-in microphone and speaker, supports full-duplex two-way talk •Supports cloud storage and local TF card storage •App supports Android/iOS, product is stable and reliable •Dual solar panel installation design, compact size, low shipping cost, IP66 outdoor waterproof rating •Adjustable middle bracket design with a 2-meter extension cable – meets various installation scenarios •Metal ball housing design – fast heat dissipation, prevents thermal noise, ensures clear image •Supports multiple pairing methods (Bluetooth, QR code scan) for easy setup			
	AI Features (when motion detection is enabled)	Human Detection	When enabled, adds human motion tagging – reduces false alarms	
		AI tracking	automatically follows human movement trajectory once enabled	
		Activity Zone Setting	Define specific areas to be detected	
	Product Name	AOV Optical Zoom Solar Low-Power Camera		
	Model	MS-589		
	System	Main Chip	ingenic T33VN	
		System	Linux/RTOS	
	Video	CMOS Sensor	Dual CMOS Sensor1/2.9 inch	
		Lens	Fixed-lens cameras: 2.8 mm PTZ cameras: 4.9–47.04 mm	
Real-time stream preview		Recording: HD (2304×1296 @ 15fps), SD (640×360 @ 15fps) Snapshot: 5MP		
Video Compression Standard		H.264/H.265		
Fill Light		10 dual-core lights + 2 laser lights: Effective IR distance up to 50m		
Audio	Audio Input	Supported		
	Audio Output	Supported		
	Simplex / Full-Duplex Two-Way Talk	Supported		
Night Vision Mode	Super Night Vision	AOV alarm/wake recording uses white light fill light (AOV capture mode uses IR fill light; fill light status: IR flashing)		
	Black & White Night Vision	AOV capture and alarm/wake recording both use IR fill light; AOV night vision capture: IR flashing		
AOV Frame Rate (Configurable)	1S, 2S, 3S, 5S, 10S, 20S, 30S, 60S (Shorter capture intervals result in higher video quality)			
AOV Performance	AOV capture time	About 100 ms		
	AOV average current (1/1 FPS)	~100ms, ~30mA (TBD)		
	AOV average current (1/3 FPS)	~20mA (TBD)		
Network	Network Module	Custom low-power LTE module		
	Applicable Regions (4G module version – optional)	Middle East, South Asia, US version, European version, Australian version, and global version		
	SIM	Nano SIM		
PIR	PIR Detection Distance	12 meters, 5 adjustable distance levels		
	PIR False Alarm Filtering	Motion detection + human filtering to reduce false alarms		
Pairing Methods	Pairing Methods	Supports Bluetooth addition and QR code scanning		
Recording Modes	Normal recording	15fps		
	Time-lapse recording	Low frame rate recording (frame rate adjustable, default 1 frame every 3 seconds)		
Power Supply Method	Built-in Battery	Capacity: 20,800mAh		
	Solar powered	External 14W (7W+7W) solar panel		
	Power Management	Defaults to turning off AOV and entering low-power mode when below 30%; can be woken up by PIR or remote APP		
Value-Added Services	4G data service	7 days free unlimited data trial; recharge required after 7 days		
	Cloud storage service	First activation: 1-month free cloud storage trial		
Indicator Lights	Device working status indicator:	Solid blue when awake; blue flashing during AOV capture; off in low-power sleep mode		
	Charging indicator:	Solid green while charging; off when fully charged		
Other	TF card storage	Supports 4GB–128GB TF card		
	Waterproof rating	IP66		
Operating Environment	Operating temperature	-20℃ ~+65℃		
	Operating humidity	≤80%RH		
APP	APP Name: UboxPro			