reCamera Gimbal 2002w (64 GB)

Smart Vision Meets Motion – AI Tracking Made Simple

Category	Specification
Processor / SoC	SG2002 RISC-V SoC
CPU	C906 @ 1 GHz + C906 @ 700 MHz
NPU	1 TOPS @ INT8
MCU	8051 core with 8 KB SRAM
Memory (RAM)	256 MB
Storage	64 GB eMMC + TF card slot (up to 2 TB)
Camera Sensor	OV5647 (5MP, 2592×1944), 1/4" CMOS, 1.4 µm pixels, F2.8, 65° FOV
Video Encode	5MP @ 30 fps
Gimbal	Dual-axis, 360° yaw / 180° pitch, brushless motors (MS3506 + MS3008)
Wireless	Wi-Fi 2.4G/5G + BT 4.2/5.0
Interfaces	USB-C 2.0, Ethernet 100 Mbps, 3 × GPIO (487/488/490)
Audio	On-board microphone; external speaker supported
LEDs	Power, eMMC status, CPU status
Protocols Supported	RTSP, HTTP, WebSocket, TCP/UDP, MQTT
Development Tools	Node-RED with custom nodes, open-source SDKs, full hardware/software openness
Dimensions	68 × 112 × 71 mm
Power Consumption	12V / 185 mA (static), 12V / 1.5 A (peak)
Operating Temperature	−20° to 50°C
Humidity	95%

Model Comparison Table (reCamera Series)

Feature	2002	2002w	Gimbal 2002w (this product)	HQ PoE
SoC	SG2002	SG2002	SG2002	SG2002
Wireless	—	Wi-Fi + BT	Wi-Fi + BT	—
Lens/Sensor	OV5647	OV5647	OV5647 on pan-tilt gimbal	GC2053
Gimbal	—	—	**Yes: 360° yaw / 180° pitch**	—
Storage	8GB/64GB	8GB/64GB	**64GB**	8GB/64GB
IO Ports	USB-C, Ethernet	USB-C, Ethernet, GPIO	USB-C, Ethernet, GPIO	Ethernet + PoE
Audio	Mic	Mic + external speaker	Mic + external speaker	Mic
Special Features	Base camera	Wireless camera	**AI + gimbal tracking**	High-quality PoE vision