

AI-Tracking

Precision

Lightweight

**Applicable Models:
THIRD PARTY DRONE**

Ultra-precise 3-axis gimbal camera delivering smooth 4K imaging with $\pm 0.01^\circ$ stabilization accuracy in a compact 95 g design.

Applications

Inspection

Enables precise aerial inspection of industrial infrastructure and pipelines.

Mapping & Surveying

Supports efficient mapping and GIS data collection from the air.

Public Safety

Assists firefighting and rescue operations with aerial monitoring and lighting.

Law Enforcement

Provides real-time aerial surveillance for security and crowd management.

Specification

Interfaces

Video Output Port:

- Ethernet
- CVBS
- Micro-HDMI

Control Signal Input Port:

- S.Bus
- UART
- Ethernet (UDP/TCP)

Control Signal Output Port:

- S.Bus

Gimbal

- High-Accuracy 3-Axis Stabilization: Yaw, Pitch, Roll
- Angular Vibration Range: $\pm 0.01^\circ$
- Controllable Pitch Angle: $-135^\circ \sim +45^\circ$
- Controllable Yaw Angle: $-160^\circ \sim +160^\circ$
- Roll Angle: $-30^\circ \sim +30^\circ$

Camera

- Lens: Fixed focal length, 6x digital zoom
- Equivalent Focal Length: 21 mm
- Image Sensor: Sony 1/1.7-inch CMOS, 8 MP effective resolution
- Aperture: F2.8
- Field of View (FOV): Diagonal 93° , Horizontal 81°

Video Recording Resolution:

- 4K (4096 x 2160) @ 25 fps
- 2K (2560 x 1440) @ 25 fps
- 1080p (1920 x 1080) @ 25 fps
- 720p (1280 x 720) @ 25 fps

Video Storage Bitrate (H.265):

- 4K / 2K: 20 Mbps
- 1080p / 720p: 15 Mbps
- File Storage Format: FAT32 / exFAT
- Image Format: JPG
- Video Format: MP4
- Supported MicroSD Cards: Class 10, up to 256 GB
- Still Photography Mode: Single
- White Balance: Auto

General

- Working Voltage: 11 ~ 25.2 V (3S to 6S LiPo)
- Note: Units manufactured before June 2023 may not support 25.2 V; please confirm before use.
- Power Consumption:
 - Average: 5 W
 - Peak: 12 W
- Waterproof Rating: IP4X
- Operating Temperature: $-10^\circ\text{C} \sim 50^\circ\text{C}$
- Dimensions: 55 x 55 x 70 mm
- Weight: 95 g

Contact Us:

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Compact

4K

Stability

**C-A8 Mini 4K
Gimbal Camera**



The C-A8 is a compact 3-axis gimbal camera featuring a Sony 1/1.7" 8MP sensor, delivering smooth 4K video with $\pm 0.01^\circ$ stabilization accuracy. Weighing only 95 g, it supports S.Bus, UART, and Ethernet control for seamless UAV integration and reliable performance in demanding missions.

Key Features:

- Ultra-Stable 3-Axis Gimbal – With a precision of $\pm 0.01^\circ$, it delivers perfectly smooth and shake-free footage, even during complex aerial maneuvers.
- Crystal-Clear 4K Imaging – Powered by a Sony 1/1.7" 8MP sensor and F2.8 lens, capturing every detail in vibrant 4K clarity.
- Compact & Lightweight Design – Only 95 g with a 55x55x70 mm body, ideal for drones requiring balance between performance and endurance.
- Seamless Integration – Supports multiple control protocols (S.Bus / UART / Ethernet UDP-TCP) and outputs (Ethernet / CVBS / Micro-HDMI) for flexible system integration.
- Reliable in Every Mission – IP4X-rated protection and -10°C to 50°C operating range ensure dependable performance in harsh environments.
- Smart Power Efficiency – Works within 11–25.2 V voltage range with an average power draw of only 5 W, maximizing flight time and reliability.

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