MYK – 3A/2LG 10MP EO 1080 1W&2N FOV/Ta-TR

Three-Axis Dual-Optical Gimbal Camera

1. Overview

The MYK – 3A/2LG 10MP EO 1080 1W&2N FOV/Ta-TR

gimbal camera employs a three-axis gyro-stabilized control system with an internal wiring design. It is equipped with a 10-megapixel visible-light CMOS sensor and a starlight-grade visible-light CMOS sensor, offering dual fields of view (wide and narrow). The system can output real-time 1080P HD visible-light video and features target locking and tracking capabilities.

2. Frame Angles

Pan Angle: -90° to +90°

Tilt Angle: -120° to +90°

Roll Angle: -30° to +30°

Stabilization Accuracy: 0.02° (1σ, disturbance 0.5° @1Hz)

3. CMOS Imaging Sensor Specifications

1) 10-Megapixel CMOS

Resolution: 13 MP

Focal Length: 3.5 mm

Field of View (FOV): 70.4° (D) × 39.6° (V), error ±5%

Distortion: ≤5%

Depth of Field: 169cm～INF

Lens Configuration: 5P + 1IR (650 nm band)

Real-Time Video Resolution: 1920 × 1080

Maximum Photo Resolution: 4K, 1920 × 1080

Recognition Range: Under visibility ≥8 km, can identify an adult-sized target at distances >200 m

2) Starlight-Grade CMOS

Resolution: 2 MP

Focal Length: 10.3 mm

Field of View (FOV): 30.9° (D) × 17.4° (V)

Distortion: ≤0.7%

Lens Configuration: 5P + 1IR

Real-Time Video Resolution: 1920 × 1080

Maximum Photo Resolution: 1920 × 1080

Recognition Range: Under visibility ≥8 km, can identify an adult-sized target at distances >350 m

4. Power Supply

Voltage: DC 9V–15V

Steady-State Power Consumption: 9W

5. Weight and Dimensions

Gimbal Unit: Approx. 55 g, 44 mm × 46 mm × 60 mm

Tracking Servo Board: Approx. 35 g, 52 mm × 52 mm × 18 mm

Control Box + Base Plate (Optional): Approx. 20 g

6. Output Interfaces

Video: Network, HDMI

Control: TTL serial port, network, SBUS

Storage: SD card

7. Environmental Adaptability

Operating Temperature: -40°C to +55°C

Storage Temperature: -45°C to +60°C

Rain Resistance: Can operate normally in light rain conditions.