

MYK – BI/3A/2LG/10X 1920EO/640IR/Ta-tr

The solution uses a three-axis stabilized dual-light payload. A conductive slip ring is installed to enable continuous 360° rotation. Pitch travel: -120° to +40°. Weight ≤ 800 g.

The payload integrates a 10 × high-definition visible (EO) camera and a long-wave uncooled infrared (LWIR) imaging module. The product is compact, lightweight and mature/reliable — suitable for mounting on various UAV airframes as well as on ships and vehicles.



Visible (EO) camera: 10 × optical visible camera, focal length 4.7 – 47 mm. Detection/recognition capabilities as shown:

Target	Target size (m)	Detection (km)	Recognition (km)	Identification (km)
Human	0.5×1.8	1.9	0.5	0.24
Vehicle	4.5×1.5	5.8	1.4	0.72

Long-wave uncooled infrared (LWIR), focal length 19 mm. Thermal detection/recognition capabilities as shown :

Target	Target size (m)	Detection (km)	Recognition (km)	Identification (km)
Human	0.5×1.8	0.53	0.19	0.1
Vehicle	4.5×1.5	1.6	0.4	0.2

Gimbal parameters

Stabilization accuracy $\leq 100 \mu\text{rad}$

Azimuth range: $N \times 360^\circ$ continuous;

Pitch range: 120° to $+40^\circ$;

Roll range: $\pm 40^\circ$

EO parameters

Resolution: 1920×1080

Zoom: $10\times$ optical;

Focal Length: $4.7\text{--}47 \text{ mm}$;

Horizontal FOV: $58.3^\circ\text{--}7.1^\circ$

Thermal Imager (TI) night parameters

Resolution: 640×512 and support white hot/black hot mode.

Zoom: $4\times$ digital zoom