

MYK – Gr/30X 1920EO/ 640IR/Ta-Tr

The solution for this uses a three-axis stabilized dual-light payload with a conductive slip ring for continuous 360° rotation. Pitch travel: -110° to +10° (horizontal = 0°, upward positive). Weight ≤ 950 g. The payload integrates a 30× HD visible camera and a long-wave uncooled infrared imaging module. The product is compact, lightweight and mature/reliable — suitable for UAVs, ships and vehicles.

Note: This model supports a two-axis variant.



Visible (EO) camera: 30 × optical visible camera, focal length 5.1 – 153 mm. Detection/recognition capabilities as below.

Target	Target size (m)	Detection (km)	Recognition (km)	Identification (km)
Human	0.5×1.8	5.2	1.3	0.66
Vehicle	4.5×1.5	15	3.95	1.95

Long-wave uncooled infrared (LWIR): focal length 35 mm. Thermal detection/recognition capabilities as below.

Target	Target size (m)	Detection (km)	Recognition (km)	Identification (km)
Human	0.5×1.8	0.97	0.24	0.12
Vehicle	4.5×1.5	2.9	0.73	0.36

Gimbal Parameters

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

Payload servo ranges: Azimuth: $N \times 360^\circ$ continuous rotation;

Pitch: 110° to $+10^\circ$ (horizontal = 0° , upward positive);

Roll: 40° to $+40^\circ$

The payload supports control via an Ethernet port; Image transmission should be connected to the drone data link for real-time image transmission.

EO parameters:

Resolution: 1920×1080 .

Zoom: $30\times$ optical

Focal length 5.1–153 mm;

Horizontal FOV $55.3^\circ - 2.6^\circ$.

The camera supports digital zoom plus electronic image stabilization.

Thermal Imaging (TI) — night payload

Resolution: 640×512 . Supports white-hot and black-hot modes.

Supports $4\times$ digital zoom.