



HALCON

GIMBAL 270

VISION-BASED TARGET TRACKING.



Gimbal 270 is a two axis stabilized sight system that is designed to be used on UAVs and small manned aircraft. The gimbal is equipped with Uncooled thermal camera, 2 CCD's and LRF.

S P E C I F I C A T I O N S

FEATURES

Two Axis multi-sensor stabilized imaging system.

Designed to be installed on Unmanned Aerial Vehicle and small manned aircrafts.

Gimbal is equipped with uncooled thermal camera, CCD, 100mm fixed focal length CCD and LRF.

Used for target acquisition, target aiming and fire guidance.

Total system weights around 12 kg's.

SIGHT SYSTEM ROTATION RANGE

Azimuth: $N \times 360^\circ$

Pitch angle: $-30^\circ + 60^\circ$

ENVIRONMENTAL CONDITIONS

Operating Temperature: -40 to 60°C

Storage Temperature: -55 to 70°C

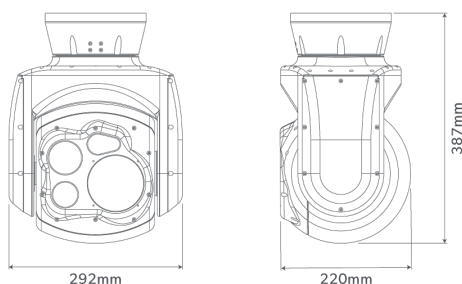
Shock MII-STD-810F

Vibration MII-STD-810F

POWER CONSUMPTION

Power supply: 19V to 34V

Consumption: $<100\text{W}$ (standard); 300W (Max)



THERMAL CAMERA

Field of View: $24.6 \times 18.5 / 7.3 \times 5.5$

Detection distance

Human: 2.6km

Vehicle: 5.5km

Recognition distance

Human: 0.7km

Vehicle: 1.8km

FIRST DAYLIGHT CAMERA

Field of View: $4.12^\circ \times 2.32^\circ$

Detection distance

Human: 4.2km

Vehicle: 10.22km

Recognition distance

Human: 1.41km

Vehicle: 3.41km

SECOND DAYLIGHT CAMERA

Field of View: $2.3^\circ - 63.7^\circ$

O-Zoom: 30x

LASER RANGE FINDER

Distance: $\geq 6\text{km}$ (for 2.3 m x 2.3 m Target)

Min. measurement range: 50m

Accuracy: $\pm 1\text{m}$