

# HeraSight

**Faster missions. Zero rework.**




## Why HeraSight?

Conventional gimbals stabilize a camera. HeraSight optimizes your mission.

**HeraSight is the world's first AI-powered EO/IR gimbal built to finish the job in one pass.** Conventional gimbals only stabilize. HeraSight goes further – combining **edge AI, live geotagging, extreme zoom stability, in-flight quality control,** and autonomous precision functions to deliver results immediately, not after re-flights or post-processing delays. With NDAA compliance, 120x zoom clarity, instant geotags, live in-flight QA, smart tracking, and <50 cm precision drops, HeraSight saves time, cuts costs, and improves efficiency – from defense ISR to industrial inspection.



## Contact Us Today!

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## HeraSight Specifications

### GIMBAL

Angular Vibration Range	±0.005°
Gimbal Mount	Front, Rear, Middle
Gimbal Mode	Off   Lock   Follow
Controllable Range	Tilt: +45°, -135° Pan: ± 300°
Mechanical Range	Tilt: +75°, -225° Pan: ± 325° Roll: ± 160°
Max Controllable Speed	Tilt: 100°/s Pan: 100°/s Roll: 100°/s
Dimensions (L×W×H)	165 × 125 × 150 mm (6.50 × 4.92 × 5.91 inch)

# HeraSight Features

## 1. 120× Stability at Extreme Zoom

Lock onto details without blur – far beyond conventional gimbals

## 3. Real-Time Geotagging

Real-time geotagging for both still images and videos, with metadata saved in .SRT files, including camera settings, gimbal orientation, and drone GPS data

## 5. Live Mission Assurance

Continuous in-flight preview ensures data quality before landing

## 7. Smart Waypoints

Pre-set capture timing, gimbal angles, and settings per waypoint

## 9. Zero-in-Target Precision Drop

Computer vision autonomously guides the drone for deliveries or payload drops with <50 cm accuracy at 50 m

## 2. Object Tracking & AI Recognition

Real-time 30 fps tracking/detection with memory; supports custom AI models

## 4. Simultaneous EO/IR Capture

Simultaneously records video and captures still images from both EO and IR cameras, enabling up to four concurrent tasks—filming and photographing from each camera

## 6. Tap to center

The operator can point the HeraSight at the target simply by tapping the target on the screen

## 8. Target Positioning

Overlay coordinates on video + map

## 10. SDK + Open Integration

Full HeraSight SDK for custom AI models, seamless streaming via UDP/RTSP/RTMP

# HeraSight Specifications

## GENERAL

Weight including EO-IR cameras and gimbal	850g (1.87 lbs)
Payload Dimensions (DxWxH)	158mm x 108mm x 171mm 6.22 x 4.25 x 6.73 inch
Quick release	Yes
AI Performance	Jetson Xavier NX - 21 TOPS (Option: Jetson Orin NX upgrade - 100 TOPS)
Damping	RTR Damping
Input Voltage	12V ~ 60V
Power Consumption	54 W
Working Current	2.3 A
Storage Temperature	+50°C to -20 °C
Operating Temperature	+50°C to -20 °C
Payload Control Method	UART Ethernet SBUS
Supported Drone Platforms	Pixhawk/CubePilot/Skynode (Auterion)
Supported Autopilot Platforms	Ardupilot/PX4
Supported Controllers	Heralink or third-party controllers supporting Ethernet and running Linux, Android or Windows
SDK	HeraSight SDK
NDAA compliance	Yes

## EO CAMERA - Sony FCB-EV9520L

Image Sensor	1/2.8-type STARVIS 2 CMOS Sensor
Effective Pixels	2.13 MP
Lens	f= 4.3 mm to 129 mm, F1.6 to F4.7
Zoom	Optical: 30x Digital: 12x Super Resolution: 30x Combine: 360x
Resolution	Photo: 1920 x 1080 (2.13 MP) Video: 1920 x 1080 (FullHD@60fps)
Format	Photo: JPEG Video: MP4, H265
Minimum Illumination	0.009 lx (Shutter Speed: 1/30 sec)
Aperture Control	16 steps
Shutter Speed	1/1 to 1/10000 s, 22 steps
Exposure mode	Full Auto, Manual, Priority mode (shutter/iris), EV compensation, Spot AE, Slow AE
Defog mode	On/Off (Low, Mid, High)
Image Stabilization	Super image stabilizer (Super / Super+)

# HeraSight Specifications

## IR CAMERA

Sensor	Flir Boson+
Array Format	640x512
Frame Rate	60Hz
Pixel Size	12 µm
Thermal Spectral Range	8-14 µm
Radiometric	Supported Options
Scene Temperature Range	to 140 °C (high gain)
Lens Options	4.9mm, 9.2mm, 14mm, 18mm
Digital Zoom	1x to 8x zoom
Color Palette	Yes (White Hot, Rainbow, Ironbow, Arcite, Gradedfire, Black Hot, Rainbow HC, Globow, Lava, Hottest)
Resolution	Photo: 640x512 Video: 640x512 @ 30Hz, 60Hz
Format	Photo: JPEG Video: MP4, H265
Thermal Sensitivity (NETD)	Professional: ≤20 mK
FFC	Auto/Manual

## LASER RANGEFINDER

Ranging Capability (m)	Max 3000m
Performance Continuous measure mode	Single, 1HZ, 4HZ, 10HZ
Precision (m)	Maximum 0.5m
Laser Safety	EN60825 Class 1

## STORAGE

Internal Storage	Integrated SSD Samsung 980 M2 2280 PCIe NVMe is internal storage with capacity up to 500G
Detachable SSD Storage	Detachable RTR SSD up to 500GB
Supported File Systems	exFAT



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