

The OTUS-L205 gyro stabilised multi sensor gimbal provides outstanding performance in one of the most lightweight systems.

Features

- One of the most exciting gimbals on the market
- All electronics embedded inside the unit
- Outstanding stability thanks to high bandwidth direct drive torque motors
- Complete 3 dimensional IMU mounted on the optical bench
- Built-in laser range finder for geo-location and geo positioning
- Optional digital video interface
- Optional fully integrate video auto-tracker
- Computational capacity for optional vehicle navigation and control

Optional gimbal integrated features

- Custom designed camera house
- Geo-positioning
- Geo-location
- Video auto-tracker
- Digital video interface
- Extended range finder range
- Vehicle navigation and control

The OTUS-L205 gyro stabilised micro gimbal

The two axis multi sensor gimbal reach a new level of stabilisation performance thanks to purpose-built high-bandwidth torque motors implementing active vibration attenuation.

All electronics required for the advanced digital control fits within the unit shell. The user only have to connect an external power supply, a video monitor and a joystick, to have the system up and running.

A three dimensional micro-mechanical IMU and a laser range finder mounted directly on the optical bench, allows for advanced features like geo-location and geo-positioning, provided an external heading source is connected to the OTUS-L205. The powerful digital servo controller of the OTUS-L205 is even capable of providing enough computational power to drive optional features like vehicle control and navigation.

The OTUS-L205 is housing various electro-optical payloads. The standard version comes with a CANON HD camera with onboard flash disk or an uncooled thermal imager like Thermoteknix Miricle 307K. All gimbals also fit a laser range finder and/or laser illuminators.

The gimbals in the OTUS family are available in the different sizes and configurations. The gimbals have single, dual and even triple sensors capability. The gimbals can be equipped with a wide flora of sensors like; daylight cameras, uncooled infrared imagers, laser range finders, and laser illuminators.

Technical Specification

Gimbal System

Two axis gyro stabilised fully integrated direct drive gimbal with embedded laser range finder

Stabilisation

Better than 100 urad (depending on payload)

Range Finder Performance

Up to 4000 m range

Pan/Tilt Range and Slew Rate

Infinite range if payload do not require extending snout (sliprings in both axes), 120°/sec maximum slew rate

Interfaces

1 x RS485 for user interaction and external heading/position source,
1 x composite and/or 1 x component video

Feedback Performance

0.036°/±0.1° typical encoder resolution/
accuracy, 200 Hz update rate

Power requirements

18 to 36 Vdc, 20 W (typical)

Temperature

-40 to +50°C operational, -40 to +85°C storage

Weight

From 2.0 kg (depending on payload)

Dimensions

205 mm diameter x 274.5 mm height

Payload options

Canon/Sony HD camera with onboard flash disk
Various SONY block cameras
Laser illuminators
FLIR Tau 320/640, 14-100mm
Thermoteknix Miricle 110K/307K, 14-50 mm
or according to customer specification

Applications

- Unmanned Vehicles
- Surveillance
- Law enforcement
- Mapping

No export restrictions nor ITAR



Mechanical Dimensions

