



DST CONTROL

# OTUS-U250

GYRO STABILISED GIMBAL



4-axis gyro stabilised multisensor

Integrated video tracking & geo-functions

Multiple choice of sensors

Maximum exportability



# OTUS-U250

## GYRO STABILISED GIMBAL

### Features

- Market leading price ratio
- All electronics embedded within the unit
- Outstanding stability thanks to direct drive
- Complete 3 dimensional IMU mounted on the optical bench
- Worldwide delivery.

### Options

- Fully integrated video auto-tracker
- Geo-location and geo positioning
- Laser range finder, laser pointer and laser illuminator



Technical Specification	
Gimbal System	Four axis gyro stabilised fully integrated direct drive gimbal with optional embedded laser range finder
Stabilisation	Better than 50 µrad (depending on payload)
Pan/Tilt Range and Slew Rate	Infinite range if payload does 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 2 x composite and optional 1 x component video
Feedback Performance	0.036° / ± 0.1° typical encoder resolution/accuracy, 200 Hz update rate
Power requirements	18 -36 Vdc, 70 W (typical)
Temperature	0 °C to +50°C operational, -20 °C to 85 °C storage, optional: -40 °C to +50°C operational
Weight	From 7 - 12 kg / 15.4 - 26.4 lbs (depending on payload)
Dimensions	254 mm diameter x 342 mm height

The all new four axis multi sensor gyro stabilised OTUS U-250 gimbal reaches an entirely new level of stabilisation due to a combination of purpose-built high-bandwidth torque motors and geared motors.

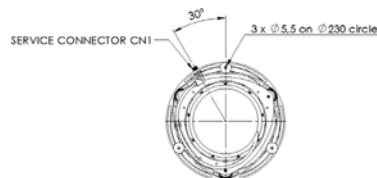
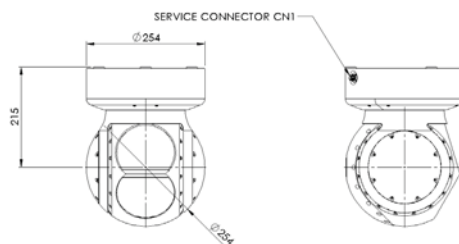
All electronics required for the advanced digital control fits within the unit shell. The user only has to connect external power, a video monitor and a joystick.

A three dimensional micro-mechanical IMU and an optional 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 gimbal.

Spotter LW	Spotter MW	High Def LW	High Def MW	Description
●	●	●	●	< 50 µrad de-stabilisation
●	●			EO SONY FCB-EX1020P HFOV 1.7-57.8°
		●	●	EO SONY FCB-EH6300 HFOV 2.9-55.4° / FCB-H11 HFOV 5.4-50°
●		●		LWIR SAITIS 640 / Flir Tau 640, 640 x 480 pixels, uncooled, 7.5-13.5 µm, 6 x zoom
	●		●	MWIR Sofradir Leo, 640 x 480 pixels, cooled, 3.7-4.8 µm, 10 x zoom
○	○	○	○	Your Camera
○	○	○	○	Laser Rangefinder 1000m, +/- 1m measurement accuracy, eyesafe, wavelength 1550 µm
○	○	○	○	Laser Rangefinder 2000m, +/- 1m measurement accuracy, eyesafe, wavelength 1550 µm
○	○	○	○	Laser Rangefinder 4000m, +/- 1m measurement accuracy, eyesafe, wavelength 1550 µm
○	○	○	○	Automatic Video Tracker
○	○	○	○	Geo-location / Geo-tracker
○	○	○	○	Laser Illuminator
○	○	○	○	Laser Pointer, range >2000m, 0.3 mrad beam divergence, eyesafe, wavelength 830-850nm

The gimbals in the OTUS range are available in different sizes and configurations. The gimbals can be equipped with up to three sensors including daylight cameras, uncooled and cooled infrared imagers, laser range finders and laser illuminators.

Applications include unmanned and manned vehicles, law enforcement, surveillance and mapping.



- Default Configuration
- Available as option

