



DST CONTROL

# OTUS-U135

GYRO STABILISED MICRO GIMBAL



Direct drive for outstanding performance

Lightweight from 1kg / 2.2lbs

Multiple choice of sensors

Maximum exportability



# OTUS-U135

## GYRO STABILISED MICRO GIMBAL

### Features

- One of the smallest gimbals on the market
- 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 or additional IR-camera



Technical Specification	
Gimbal System	Two axis gyro stabilised fully integrated direct drive gimbal with optional embedded laser range finder
Stabilisation	Better than 100 $\mu$ rad (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 1 x composite and/ or 1 x component video
Feedback Performance	0.036° / $\pm$ 0.1° typical encoder resolution/accuracy, 200 Hz update rate
Power requirements	18 -36 Vdc, 15 W (typical)
Temperature	0 °C to +50°C operational, -20 °C to 85 °C storage, optional: -40 °C to +50°C operational
Weight	From 1kg / 2.2 lbs (depending on payload)
Dimensions	135 mm diameter x 185.4 mm height

OTUS U-135 is one of the smallest sensor systems available on the market. It reaches an entirely new level of stabilisation due to purpose-built high-bandwidth torque motors.

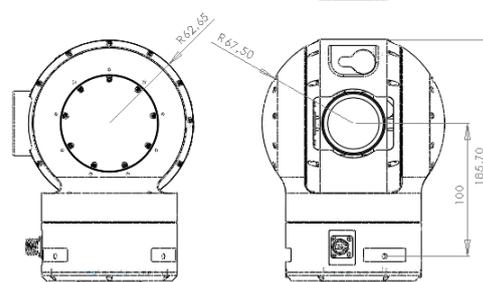
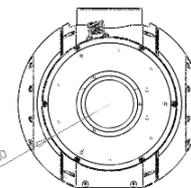
All electronics required for the advanced digital control fits within the unit shell. The user only has to connect external power, a video monitor and a joystick.

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.

Surveyor	Spotter	High Def	Detector 320	Detector 640	Description
●			●	●	< 250 $\mu$ rad de-stabilisation
○	●	●	○	○	< 100 $\mu$ rad de-stabilisation
●					EO SONY FCB-EX20DP HFOV 5.4-50°
	●				EO SONY FCB-EX1020P HFOV 1.7-57.8°
		●			EO SONY FCB-EH6300 HFOV 2.9-55.4° / FCB-H1 HFOV 5.4-50°
			●		IR SAITIS 320 / Flir Tau 320, HFOV= 13°, 7.5-13.5 $\mu$ m TI
				●	IR SAITIS 640 / Flir Tau 640, HFOV=18°, 7.5-13.5 $\mu$ m TI
○	○	○	○	○	IR SAITIS 640 HFOV = 45°, 7.5-13.5 $\mu$ m TI
○	○	○	○	○	Laser Range Finder 50m
○	○	○	○	○	Laser Range Finder 1000m
○	○	○	○	○	Automatic Video Tracker
○	○	○	○	○	Geo-location / Geo-tracker

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

