



DST CONTROL

GYRO STABILISED MICRO GIMBAL

Features

- Lightweight from 1.4 kg
- Multiple choice of sensors
- Outstanding stability due to direct drive
- Maximum exportability

Options

- Fully integrated video tracker
- Geo-location and geo-positioning
- Dual camera capability
- Laser range finder



OTUS-U135

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

OTUS-U135 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 free-of-charge control program is always included together with the gimbal.

The three dimensional micro-mechanical IMU and an optional laser range finder are 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.

Also features like video tracker, video overlay and advanced video processing is fully integrated within the gimbal for optimal performance.

The gimbals in the OTUS range provide unmatched image quality over similar camera systems in its class.

The OTUS gimbals 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 pointers, laser range finders and laser illuminators. Applications include unmanned and manned vehicles, law enforcement, surveillance and mapping.



Day and Night Imaging



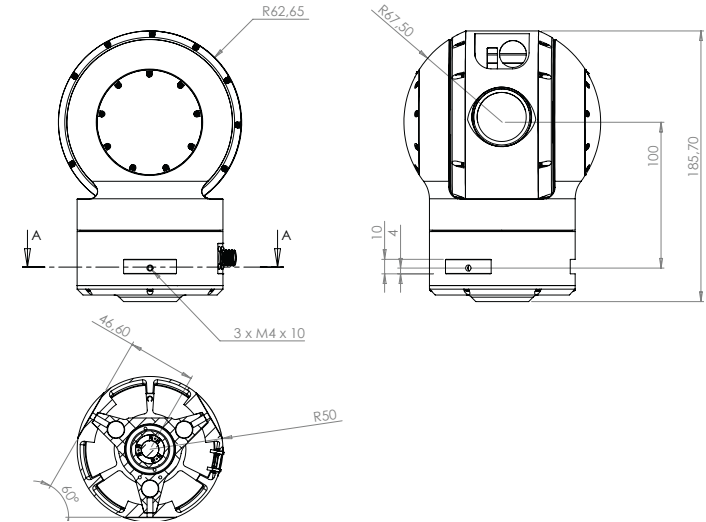
High Definition and Long Range Capability



Technical Specification

Gimbal System	Two axis gyro stabilised fully integrated direct drive gimbal
Pan/Tilt Range	Infinite range if payload does not require extending snout (sliprings in both axes)
Slew Rate	Up to 180 °/sec maximum slew rate
Control Interface	1 x RS485 for user interaction and external heading/position source
Video Interface	1 x composite (PAL or NTSC) and / or 1 x component video (Full HD)
Feedback Performance	0.036° / ± 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, option: -40 °C to +50°C operational
Dimensions	135 mm diameter x 186 mm height
Accessories	Hand Control Unit, cable kits, heli-mounts, video recorder, video converters, etc.

Technical Drawing



Surveyor	Surveyor Duo	Spotter	High-Def	High-Def Spotter	High-Def Duo	Detector 320	Detector 640	Description
1.4 kg	1.5 kg	1.5 kg	1.4 kg	1.5 kg	1.5 kg	1.4 kg	1.5 kg	Weight
●	●		●		●	●		< 250 µrad de-stabilisation
○	○	●		●	○	○	○	< 100 µrad de-stabilisation
●	●							EO: SONY FCB-EX20DP, HFOV: 5.4-50°
		●						EO: SONY FCB-EX1020P, HFOV: 1.7-57.8°
			●		●			EO: SONY FCB-H11, HFOV: 5.4-50°
				●				EO: SONY FCB-EH6300, HFOV: 2.9-55.4°
						●		IR: FLIR TAU-320, HFOV: 13° (option: 18°, 24°, 34° or 48°), 7.5-13.5 µm
							●	IR: SAITIS-640 or FLIR TAU-640 or RAVEN-640, HFOV: 18° (option: 25°, 32° or 45°), 7.5-13.5 µm
	●				●	○	○	IR: SAITIS-640, HFOV: 25° (option: 32° or 45°), 7.5-13.5 µm
○	○	○	○	○	○	○	○	Laser Range Finder > 50 m, +/- 3 mm accuracy, eyesafe, wavelength 620-690 nm, -LR50
○	○	○	○	○	○	○	○	Laser Range Finder > 1300 m, +/- 1 m accuracy, eyesafe, wavelength 1550 µm, -LR1K
○	○	○	○	○	○	○	○	Automatic Video Tracker, -VT
○	○	○	○	○	○	○	○	Geo-location / Geo-tracker, -GL / -GT

- Default Configuration
- Available as option

DST CONTROL is a supplier of lightweight, high performance gyro-stabilised electro-optical systems with both EO and IR capabilities. And also, small, light-weight long-wave thermal imagers.

DST CONTROL has released a number of advanced inhouse developed products. The OTUS gyro-stabilised electro-optical micro-gimbal is optimized for use in small & medium sized unmanned vehicles and small manned aircrafts. The SAITIS uncooled microbolometer LWIR camera (amorphous silicon, spectral band 8-14 μm) is one of the smallest LWIR available. Both the OTUS gimbals and the SAITIS thermal imagers have maximum exportability (non-ITAR).



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Åkerbogatan 10

582 54 Linköping, Sweden

info@dst.se | www.dst.se