



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	Four axis gyro stabilised fully integrated geared and direct drive gimbal solution
Stabilization	< 100 µrad verified at MIL-specified vibrations up to 4.6G rms.
Dimensions / Weight	135 mm diameter x 237 mm height, 175mm diameter at base, 2 Kg
Pan/Tilt Range	Infinite range if payload does not require extending snout (sliprings in both axes)
Slew Rate	Up to 120 °/sec maximum slew rate
Control Interface	1x RS485 & 1x RS-232 for user interaction and external heading/position source
Video Interface	HD-SDI, Ethernet, Component, CVBS (PAL or NTSC)
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, option: -40 °C to +50°C operational
Accessories	Hand Control Unit, cable kits, heli-mounts, video recorder, video converters, etc.

Sensors

EO Camera

Resolution	1920 x 1080
Field of View	2.3 - 64°

Sensor #2 IR Camera

Type	Uncooled
Resolution	640 x 480
Field of View	18°

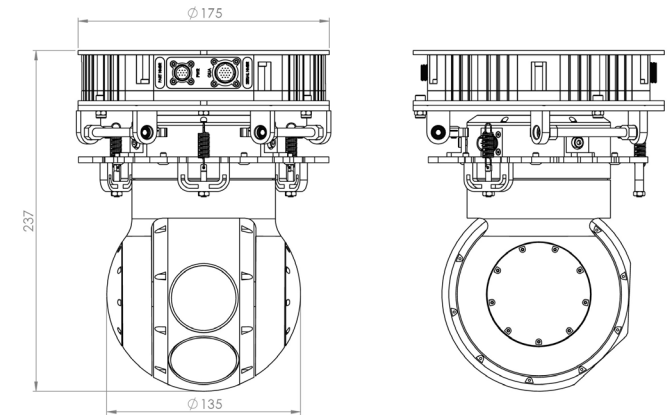
Optional Sensor #2 Laser Range Finder

Laser Range Finder	3.3 Km
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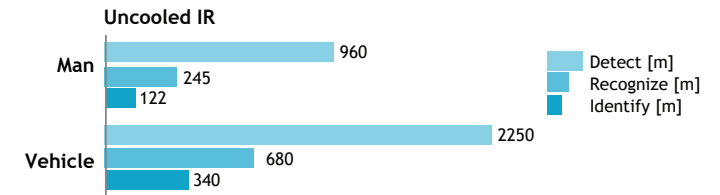
Features

Multi Target Video Tracker
Geo Position and Geo Tracking
KLV Meta data
On board recording
H264 Encoding
Moving Target Indicator
Camera Blending
Image Enhancements
ITAR FREE
GPS Receiver with Heading
Autofocus
IP44

Technical Drawing



Range Charts



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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