



DST CONTROL

GYRO STABILISED GIMBAL

Features

- 4-axis multisensor
- Multiple choice of sensors
- Outstanding stability due to direct drive
- Maximum exportability

Options

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



OTUS-U250

Features

- Market leading price ratio
- All electronics embedded within the unit
- Outstanding stability due to 4-axis solution
- 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

OTUS-U250 reaches an entirely new level of stabilisation due to the 4-axis 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 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 four 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



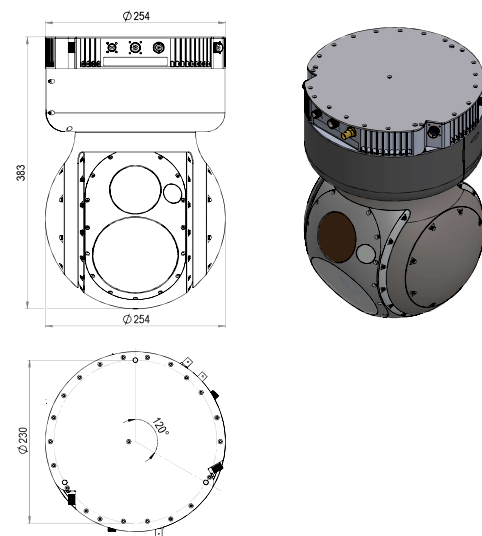
High Definition and Long Range Capability



Technical Specification

Gimbal System	Four axis gyro stabilised fully integrated geared and direct drive gimbal solution
Stabilization	< 25 µrad
Dimensions / Weight	254 mm diameter x 342 mm height, 12 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	2 x RS485 & 2x 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.

Technical Drawing



Sensors

EO Camera

Resolution	1920 x 1080
Field of View	2.3 - 64°

IR Camera

Type	Cooled
Resolution	640 x 512
Field of View	2.0 - 25°

Optional IR camera

Type	Uncooled
Resolution	640x480
Field of View	4.1 - 25.3°

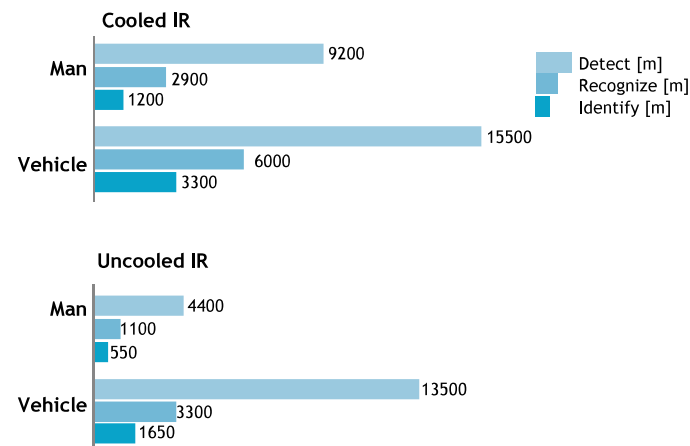
Laser

Laser Range Finder	12 km
Laser Illuminator / Pointer	>4 km

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
- Fiber Optics Gyros
- GPS Receiver with Heading
- Autofocus
- MIL-STD-XXX / RTCA DO160 / IP66
- ITAR FREE

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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