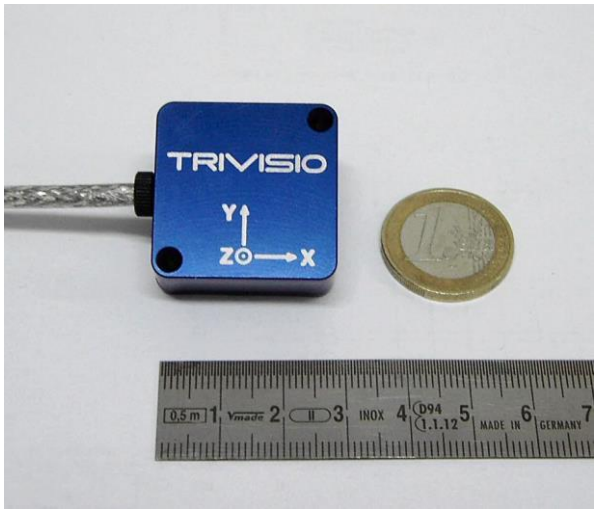
Specification Sheet – Colibri Wired

GENERAL DESCRIPTION

Colibri is the Inertial Measurement Unit (IMU). It carries 3-axis state-of-art sensors to measure acceleration, angular rate and magnetic field. Built-in temperature sensor helps to eliminate temperature influences on other sensors.

Colibri can output both raw sensor data and calibrated floating-point data. You may enable/disable data from any sensor and change frequency from 10 to more than 100Hz.

Supplied API for Windows and Linux implements orientation tracker. Using it you will simply get orientation data in Euler angles or quaternion form.



FEATURES

SENSORS
3-axis MEMS accelerometer
3-axis MEMS gyroscope
3-axis MI (magneto-inductive) magnetic sensor Temperature sensor

USAGE
Low power consumption
USB interface (Virtual COM-port)
Both machine and human friendly interfaces

SOFTWARE
Software API for Windows and Linux representing extended Kalman filter for the orientation tracking

CASING
Robust, waterproof, high-precision aluminum case

SPECIFICATIONS

Accelerometer	Scale: ±16 g Resolution: 13-bit
Gyroscope	Scale: • ±1500 o/s Resolution: 13-bit
Magnetic sensor	Scale: ±1100 µT Resolution: from 0.0263 µT (10 Hz) to 0.8421 µT (250 Hz)
Temperature sensor	Accuracy: •±0.5 °C over a 0 °C to +70 °C range
Working frequency	100 Hz
Orientation accuracy	Pitch/roll: 0.5 ° Yaw: 1.0 °
Power consumption	5 V from USB - 40 mA
PC connection	2 meters (or up to 5 m) USB cable
Dimensions	30 x 30 x 13 mm
Weight	22grams (without cable)

Lux Prototyping S.A.R.L.
23, rue des Bateliers,
6713 Grevenmacher
Luxembourg

Tel: +352-26714533
Fax: +352-26714534
Email: info@trivisio.com
Web: www.trivisio.com