

Xsens DOT

PRECISION MOTION TRACKING

About Xsens DOT

Xsens DOT is a state-of-the-art development platform for the measurement and analysis of human kinematics from industry leaders, Xsens. The platform features high-accuracy wearable inertial sensors, an easy-to-integrate mobile SDK and community support from Xsens experts.

Xsens DOT provides endless application possibilities for innovators and developers giving everything needed to build a commercially attractive application.

Make it happen with Xsens DOT

➤ Visit www.xsens.com/xsens-dot



GENERAL

	Application dependent
SENSOR PLACEMENT	Straps available by Xsens (sold separately)
LATENCY	30 ms
BATTERY	70 mAh. Battery life up to 6 hrs Charging time about 1 hr
WEIGHT	11.2 g
DIMENSIONS SENSOR	36.30 x 30.35 x 10.80 mm (l x w x h)
OPERATING TEMPERATURE RANGE	0°C - 50°C
WATERPROOF RATING	IP 68
INTERNAL STORAGE	64 MB. Recording time up to 1 million data points

COMMUNICATION

COMMUNICATION PROTOCOL	Best performance with Blue- tooth 5.0 devices
SUPPORTED MOBILE DEVICES	Android OS 8.0 or above iOS 9.0 or above
COMPATIBLE DEVICES	Any (via BLE 5.0)

ORIENTATION

STATIC (INCLINATION HEADING)	0.5° 1.0° 1σ RMS
DYNAMIC (INCLINATION HEADING)	1.0° 2.0° 1σ RMS

SENSOR COMPONENTS

FULL SCALE	± 2000°/s ± 16g ± 8 Gauss
DIMENSIONS	3 axes

OUTPUT

	Orientation (Unit Quaternions & Euler Angles) Free acceleration Acceleration Angular Velocity Magnetic Field Timestamp and status
DATA OUTPUT	

OUTPUT RATES

REAL-TIME	1Hz, 4Hz, 10Hz, 12Hz, 15Hz, 20Hz, 30Hz and 60Hz
RECORDING	1Hz, 4Hz, 10Hz, 12Hz, 15Hz, 20Hz, 30Hz, 60Hz and 120Hz