



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Thales' industry-leading InterSense line of trackers, sensors and IMUs are used in a wide range of industries from aerospace, robotics, agriculture, oil & gas, entertainment, research, engineering and visualization industries. Thales offers a range of InterSense trackers including the advanced 3-DOF InertiaCube4™, the IS-900, the industry's leading 6-DOF hybrid ultrasonic and inertial tracker and the industry's newest and most advanced hybrid optical and inertial tracker, the IS-1200+ HOBIT. Thales offers a tracker, sensors and IMUs to meet your tracking needs.

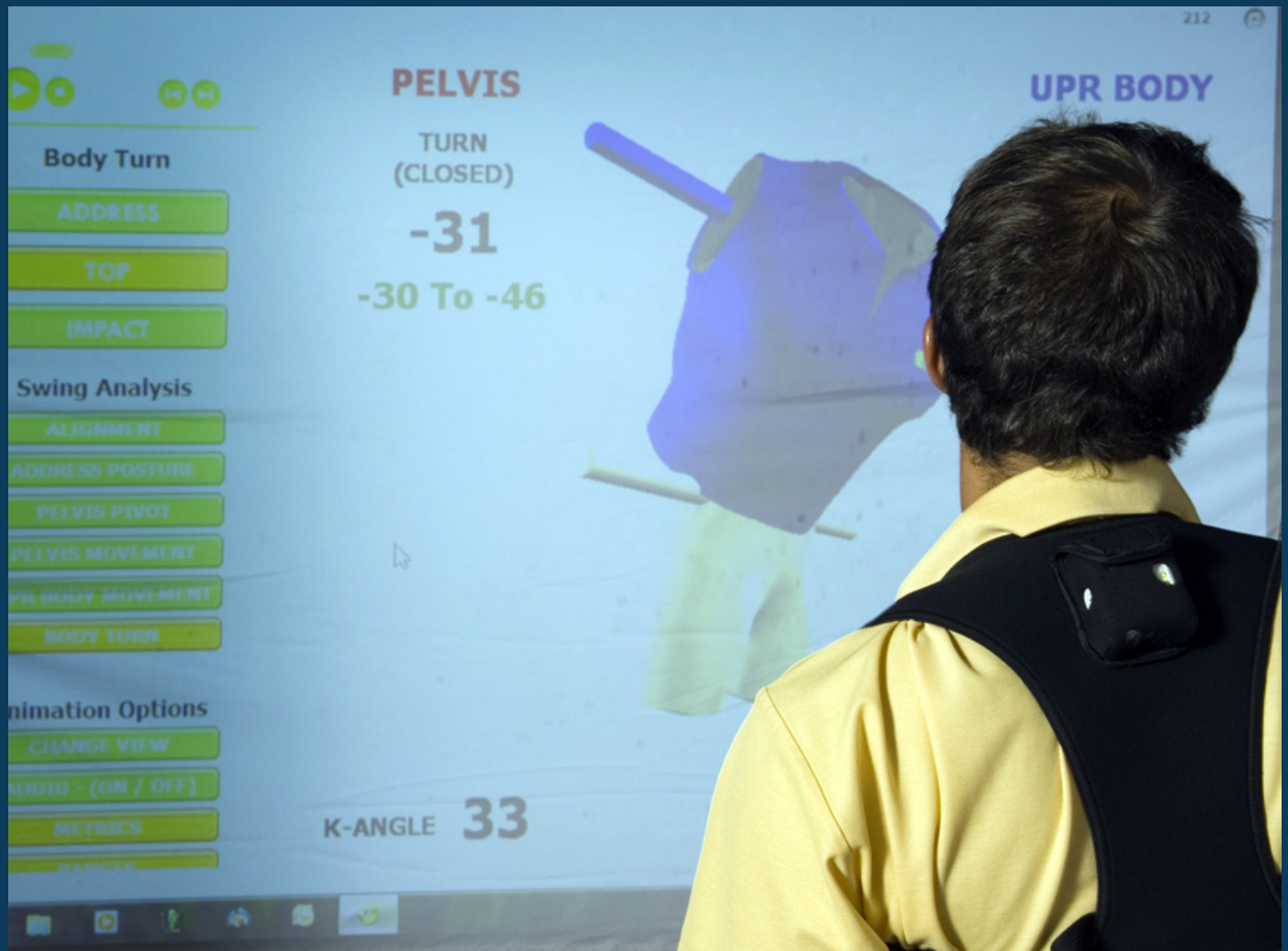
The InertiaCube4 is well suited for a range of applications:

- Training & Simulation
- Physical Therapy
- Biomechanics Analysis
- Robotics
- Entertainment



## INTERSENSE® INERTIACUBE4™

Precision Inertial Orientation 3-DOF MEMS Sensor



# INTERSENSE® INERTIACUBE4™

The 4th generation InertiaCube4 is the industry's leading 3-DOF MEMS-based inertial technology, utilizing advanced Kalman filtering algorithms to produce a full 360° sourceless orientation tracking sensor. The sensor's portable package with high-end performance and accuracy is ideal for a range of applications, including simulation & training, virtual & augmented reality, motion capture, and human movement analysis.

## INERTIALCUBE SPECIFICATIONS

### Degrees of Freedom

- 3 (Yaw, Pitch and Roll)

### Angular Range

- Full 360° - All Axes

### Maximum Angular Rate\*

- 2000° per second

### Minimum Angular Rate\*

- 0° per second

### Accuracy (RMS)\*

- 1° in yaw, 0.25° in pitch & roll at 25°C

### Angular Resolution\*

- 0.01° RMS

### Max Update Rate

- 200 Hz

### Minimum Latency

- 2 ms for RS-232 (PC host & OS dependent)

### Prediction

- up to 50 milliseconds

### Serial Rate

- 115.2 kbaud

### Interfaces

- USB or RS-232 Serial

### Size

- 1.44 in. x 1.09 in. x 0.55 in. (36.6 mm x 27.7 mm x 13.8 mm)

### Weight

- 0.39 ounces (11 grams)

### Cable Length

- USB 6 ft. (2 m), RS-232 15 ft. (4.572 m)

### Power

- 6 VDC, 40 mA

### Operating Temp. Range

- 0° to 50° C

### O/S Compatibility

- Windows 8, Windows 7, Windows XP, Linux, Mac OSX

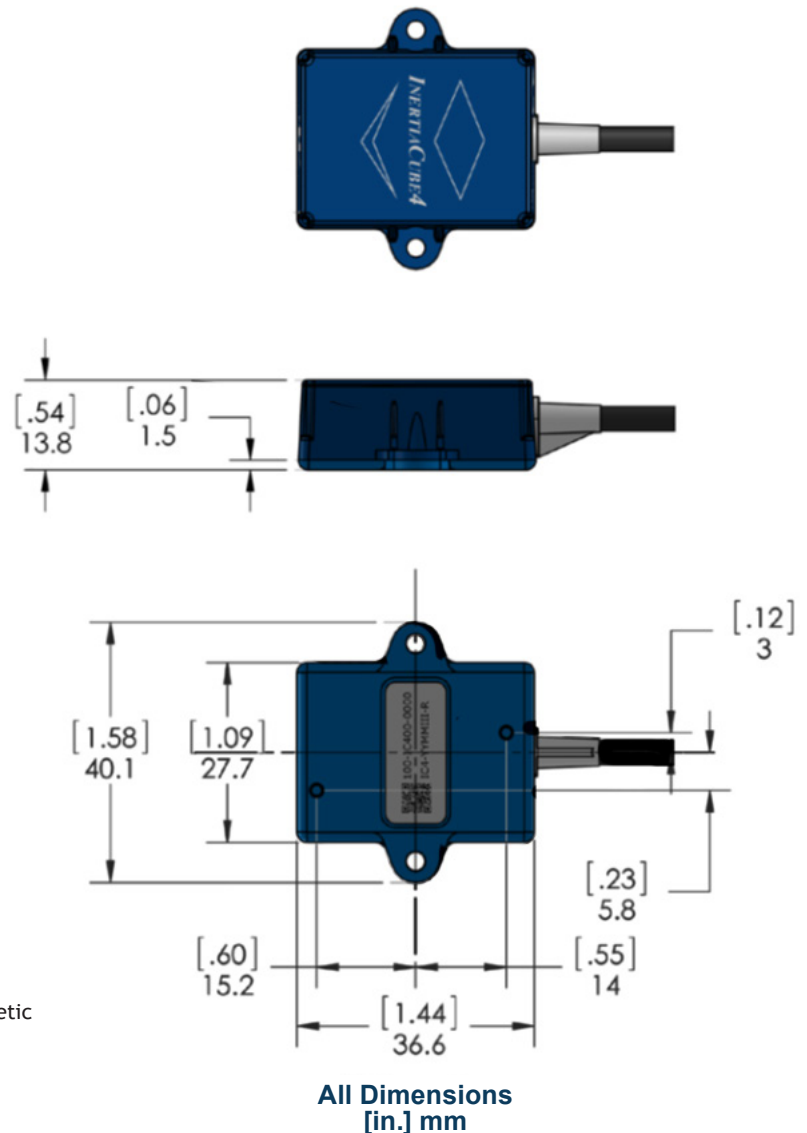
\* measurement with perceptual enhancement set to '0'

### Software Features

- Compass Calibration Tool compensates for the effects of static magnetic field distortions
- Magnetic Environment Calibration Tool prevents performance degradation by dynamic detection of magnetic disturbances

### U.S. Patents

5,645,077; 5,807,284; 6,162,191; 6,176,837; 6,314,055; 6,361,507; 6,409,687; 6,474,159; 6,681,629; 6,757,068; 6,786,877; 6,922,632; 7,000,469; and Patents Pending.



> Specifications are subject to change without notice.