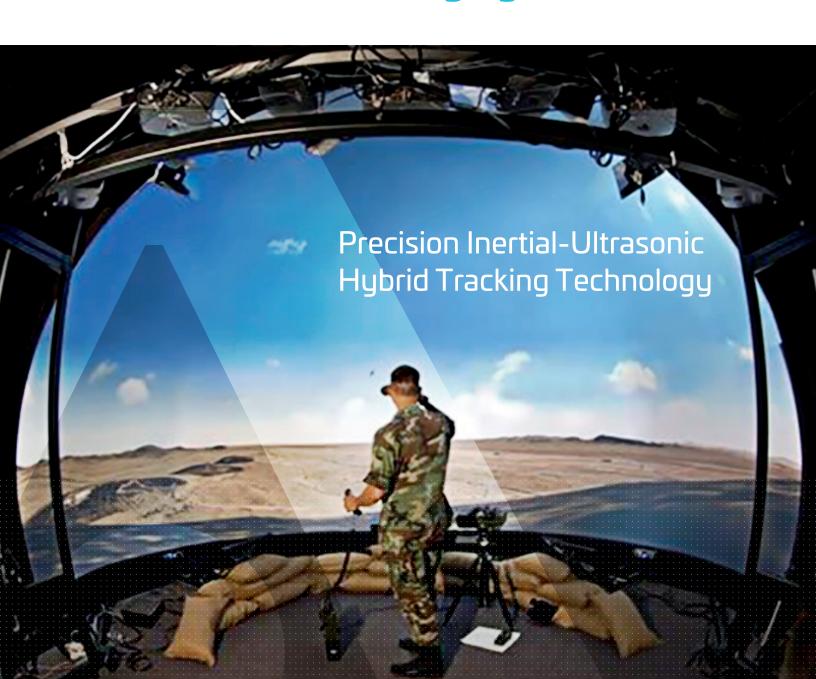


# InterSense® IS-900® Systems 6-DOF Motion Tracking System



InterSense® IS-900® Systems

InterSense® IS-900 6-Degrees of Freedom (DOF) tracking systems feature an innovative hybrid inertial-ultrasonic technology that delivers real-time orientation and position tracking, and eliminates noticeable jitter and latency for the smoothest, most realistic visual experience possible. Furthermore, the IS-900's inertial-ultrasonic technology is immune to electromagnetic and metallic interference, so users can focus intently on their mission without constant re-calibration and re-mapping.



# **Technical Specifications**

### **Key Features**

- ➤ Highly Flexible, Configurable and Extensible
- ➤OEM Tracker Kits with Optional GPIO
- ➤ Information Assurance Compatible

### **Physical Specifications**

Base unit 7.5" (W) x 16" (D) x 1.75" (H) Weigh: 15lb (6.8kg)

Head Tracker Available wired, Weight: 40g Dimensions: 4.00 in x 0.61 in x 0.54 in with 15 and 35 foot cables

### **Performance Specifications**

**AC Input:** 100 – 240 V, 1A, 50/60Hz, (auto switching)

Operating Temperature:  $0 to 40^{\circ} C$ 

Storage Temperature:  $-20 \text{ to } 70^{\circ} \text{ C}$ 

Standard Cable Lengths: 9.4 m

(IS-900 to SoniStrips $^{\overline{\text{IM}}}$ ); 10.0 m (IS-900 to Tracking Devices); 1.8 m (IS-900 to Host, RS-232 Serial)

Maximum Cable Lengths: Contact your Thales InterSense Representative

**Processor Size:** 1 U rack mounted (44.45 cm wide x 40.64 cm deep x 4.45 cm tall)

Processor Weight: 6.8 kg

**Degrees of Freedom:** 6 (X, Y, Z, Yaw, Pitch,

and Roll)

**Tracking Devices:** MicroTrax® Head Tracker; MicroTrax Wand; Custom/OEM MicroTrax Devices (Contact your Thales InterSense

Representative)

**Tracking Volume:** Up to 20 m² with 12 SoniStrips<sup>TM</sup> (SimTracker<sup>TM</sup>); Up to 140 m² with 84 SoniStrips (VETracker<sup>TM</sup>); SoniFrame  $-2.0 \text{ m} \times 2.0 \text{ m} \times 3.0 \text{ m}$ ; SoniWing  $-1.0 \text{ m} \times 1.0 \text{ m} \times 1.0 \text{ m}$ 

**Angular Range:** Full 360° — all axis

**Resolution:** 0.75 mm; 0.05°

Static Accuracy: \* 2.0 – 3.0 mm; 0.25° RMS in Pitch & Roll, 0.50° RMS in Yaw

Update Rate: 180 Hz Nominal

Latency: 4 ms Typical

Interface: Ethernet; RS-232 Serial Port

**Maximum Number of Devices:** 4 for SimTracker<sup>TM</sup>. 7 for VETracker<sup>TM</sup>

.....

**Prediction:** Up to 50 ms

Genlock Synchronization: Yes

## Software Support

SDK with full InterSense API for Windows and Linux

ISDEMO control and connectivity software

Specifications are subject to change without notice.

Thales Visionix

A Division of Thales Defense & Security, Inc.

700 Technology Park Drive, Suite #102 | Billerica, MA 01821 P: +1.781.541.6330 | E-mail: sales@thalesvisionix.com www.intersense.com | www.thalesdsi.com



<sup>\*</sup>Accuracy specifications are measured in a controlled environment and are subject to change for custom configurations.