

New

IS-900 MicroTrax™ Devices

Precision inertial-ultrasonic motion tracking for Immersive Displays



The new IS-900 precision inertial-ultrasonic motion tracking devices bring an unprecedented level of convenience, comfort and elegance to immersive 3D applications. The devices are lighter and smaller to enhance the use of passive stereo applications



Passive Stereo Solution

You can now wear passive or active glasses with the smooth tracking technology of the IS-900 Systems. The new MicroTrax™ Head Tracker mounts easily to passive glasses and the minimal weight is so comfortable that you may forget you are wearing a tracker.



Small and Convenient

The new MicroTrax™ devices are smaller and lighter to give greater comfort. And for greater convenience, we now offer a new docking station that acts as a resting or battery recharging cradle for the devices. We also minimized cables, added spare batteries, increased support for up to 7 devices and provided an easy way to recharge batteries in-situ.

Excellent Ergonomics

The MicroTrax™ devices has a whole new ergonomic design. The new Head Tracker is over 40% smaller than the previous generation. The Head Tracker's Wireless Transmitter has a clip to attach onto a shirt collar, belt or anywhere else. It can also fit easily inside a shirt pocket or an eyewear retainer. The new wand design brings unprecedented comfort, especially during long-term sessions.

Performance Specifications (all specifications are preliminary and subject to change)

MicroTrax™ devices are compatible with IS-900 VETracker and SimTracker processors only (1U chassis)

Degrees of Freedom	6 (X, Y, Z, Yaw, Pitch, and Roll) with MicroTrax™ Devices
Angular Range	Full 360° - all axis
Resolution	0.75 mm (1.5 mm Wireless) 0.05° (0.10° Wireless)
Static Accuracy	2.0 – 3.0 mm (3.0 – 5.0 mm Wireless) 0.25° RMS in Pitch & Roll, 0.50° RMS in Yaw (Standard MicroTrax) 0.50° RMS in Pitch & Roll, 1.00° RMS in Yaw (Wireless MicroTrax)
Update Rate	180 Hz Nominal (120 Hz Nominal Wireless)
Latency	4 ms Typical
Maximum Tracked Devices	4 for SimTracker (Wired or Wireless) 7 for VETracker (Wired or Wireless)

Physical Specifications

Standard Cable Lengths	12.0 m (IS-900 to Tracking Devices)
Maximum Cable Lengths	System configuration dependent (ask your InterSense Representative)

MicroTrax™ Devices and Accessories

Head Tracker

Available wired and wireless
Weight: 40g
Dimension (inches): 4.00 x 0.61 x 0.54



Wireless Transmitter for Head Tracker

(Required for wireless Head Tracker)
Weight: 65g
Dimension (inches): 3.00 x 1.75 x 1.34



Wand

Wireless
Weight: 170g

Wired
Weight: 140g

Dimension (inches): 6.88 x 4.00 x 2.12



Docking Station

- Accepts wired or wireless MicroTrax™ devices:
- Wand
- Wireless transmitter
- 2 spare batteries
- Available also as a battery recharging station

Weight: 700g
Dimension (inches): 8.80 x 8.60 x 2.00



Batteries and Rechargers

- Each wireless device includes:
- One spare battery
 - One individual battery recharger (not included if a recharging station is ordered)

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