



THE WORLD'S FIRST
PERMANENT MAGNET-BASED
 6DOF TRACKING TECHNOLOGY



COMBINING SUBMILLIMETER PRECISION
 WITH UNRIVALED CONVENIENCE AND
 VERSATILITY



UNIQUE AND ESSENTIAL ADVANTAGES
 IN A SINGLE, COHESIVE PACKAGE



INDEPENDENT
 TRACKING



EMBEDDABLE
 MICRO SENSORS



SCALABLE
 ARCHITECTURE



NO CALIBRATION
 REQUIRED



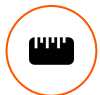
NO LINE-OF-SIGHT
 NEEDED



POWER
 EFFICIENT



RESISTS EM
 INTERFERENCE



SUBMILLIMETER
 PRECISION



WIRELESS
 READY



ABSOLUTE
 POSITIONING



TRACKING OUTPUT

- **Data:** Position and orientation (6DOF) for each sensor
- **Rate:** Up to 1 kHz
- **Range:** 750mm radius sphere
- **Precision:** RMS 0.2mm (position), 0.1 degrees (orientation)
- **Accuracy:** RMS 0.5mm (position), 0.1 degree (orientation)



BASE STATION

UNIQUE MAGNETIC SIGNAL SOURCE

- **Size:** 100.6mm x 83.5mm (D x H)
- **Weight:** ~ 490 grams
- **Power:** Max <500mA, typical <400mA @ 5V
- **Connection:** USB C



SENSORS

3D TRACKING DATA POINTS

- **Sensor:** Magnetometers
- **Size:**
 - Miniature - 0.8 x 0.8 x 0.4 mm
 - High-performance - 3 x 3 x 1 mm
- **Form factors & Example use case:**
 - SMT board - Wearables, multi-sensor
 - Wireless module - Registration, capsule endoscopy
 - FPC - Disposables, surgical tools
- **Connection:**
 - Wired - USB C (via sensor interface unit)
 - Wireless - Proprietary protocol

**UNLIMITED CUSTOMIZATION,
 UP TO 90% MORE AFFORDABLE,
 DEPLOYABLE IN MINUTES.**

FOR ANY APPLICATION.

- NAVIGATION / INTERVENTION
- ROBOTICS / AUTOMATION
- TRAINING / SIMULATION
- DIGITAL TWINS / XR



FIND US

Dallas, TX, USA

CONTACT US

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AXON

THE NEXT-GENERATION WIRED SENSOR SYSTEM



SIMPLE, DURABLE, INTUITIVE THE NEW STANDARD



- Cutting edge performance inside pressure-molded, waterproof enclosure.
- Ready for both standalone use and custom integration. Right out of the box.
- IEC 60601-1, IEC 60601-1-2 certified, and manufactured in ISO 13485 compliant facility.



SINGLE PORT SIU

1x device connection




AX1

1x high performance magnetometer



AX2

2x high performance magnetometer


Dimension
(mm)

9.40 x 18.26 x 55.93

4.07 x 5.30 x 27.40

4.07 x 5.30 x 42.55


Performance

- 5m Integrated USB-C Cable
- IP65 (when sensor connected)
- Designed for easy mounting

- **Precision:** Up to RMS 0.3mm (position), 0.2 degrees (orientation)
- **Accuracy:** Up to RMS 0.3mm (position), 0.2 degree (orientation)

- **Precision:** Up to RMS 0.2mm (position), 0.1 degrees (orientation)
- **Accuracy:** Up to RMS 0.2mm (position), 0.1 degree (orientation)


Connection

Synapse connector (proprietary, female) & USB C

Synapse connector (proprietary, male)

Synapse connector (proprietary, male)

[SUBMIT ORDER REQUEST](#)