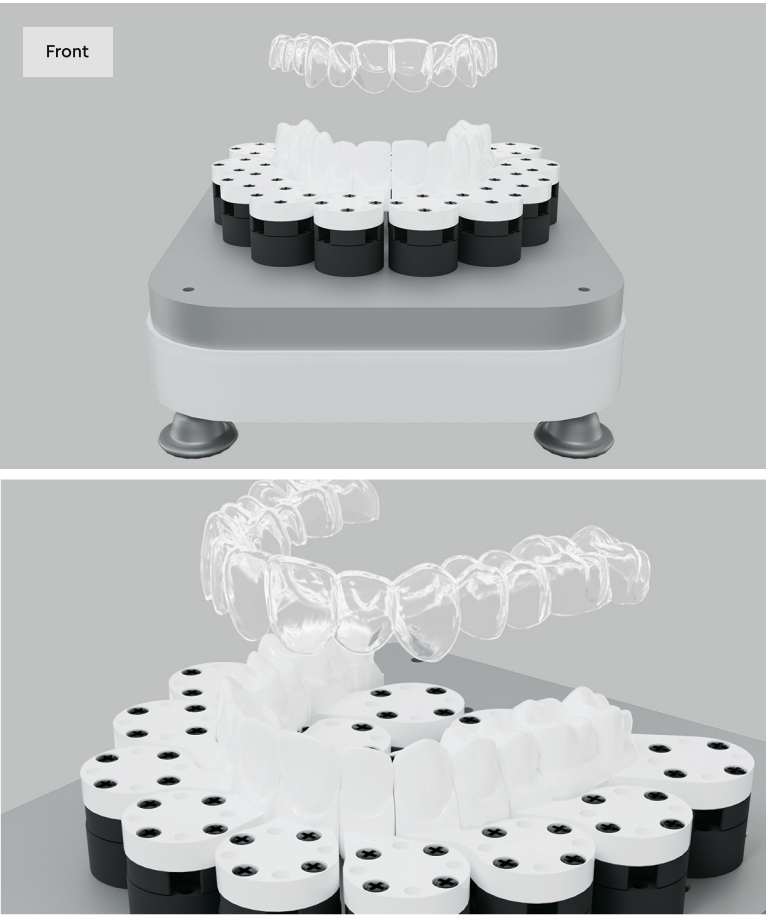




One-click orthodontic force data

Precision Force Measurement
Accurately measures subtle orthodontic forces applied to tooth surfaces and roots using a **6-axis force/torque sensor**

Data Visualization
Provides intuitive, real-time graphs showing the magnitude and direction of forces

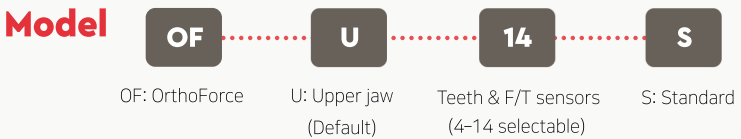
Coordinate Transformation
Converts data into the anatomical tooth coordinate system, delivering **clinically interpretable results** (Quick analysis & Verification of dental coordinates)

Data Storage & Analysis
Records and accumulates repeated measurements for **research** and **comparative analysis**

OrthoForce

▼ Redefining precision in orthodontic force measurement

OrthoForce precisely measures orthodontic forces with a **6-axis F/T sensor**, providing **real-time visualization** and **one-click conversion** into a **tooth coordinate system**

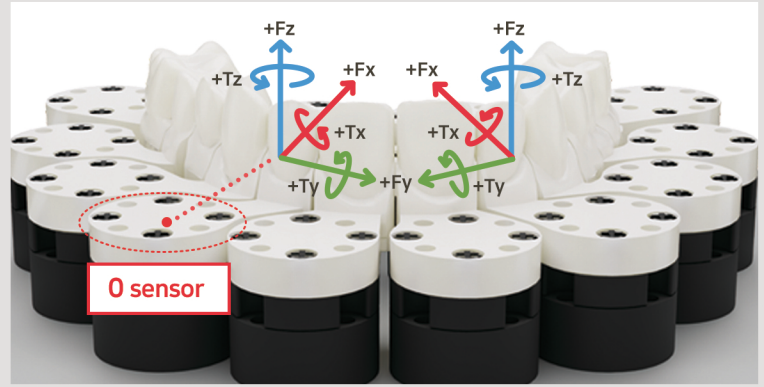
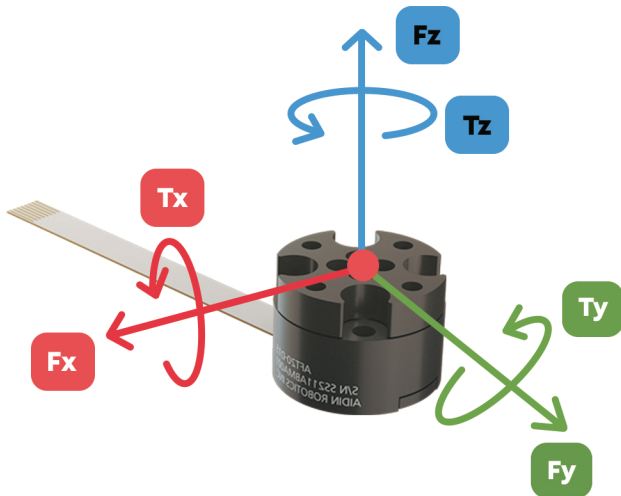


Key Feature

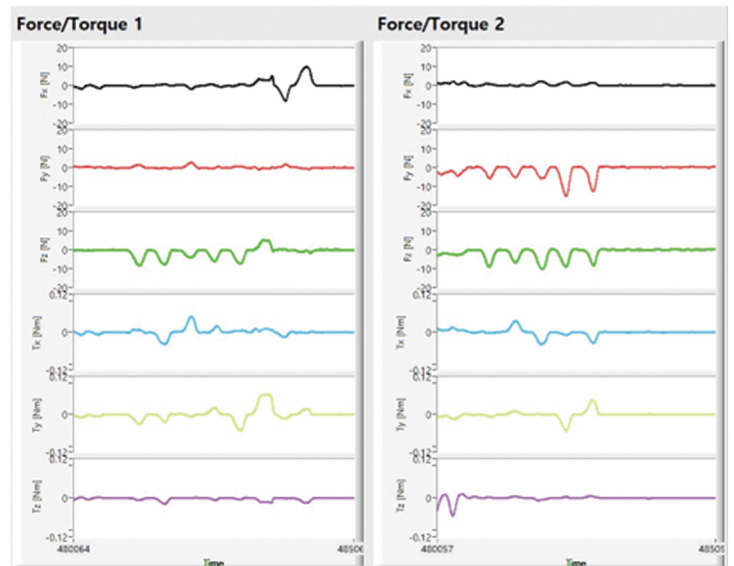
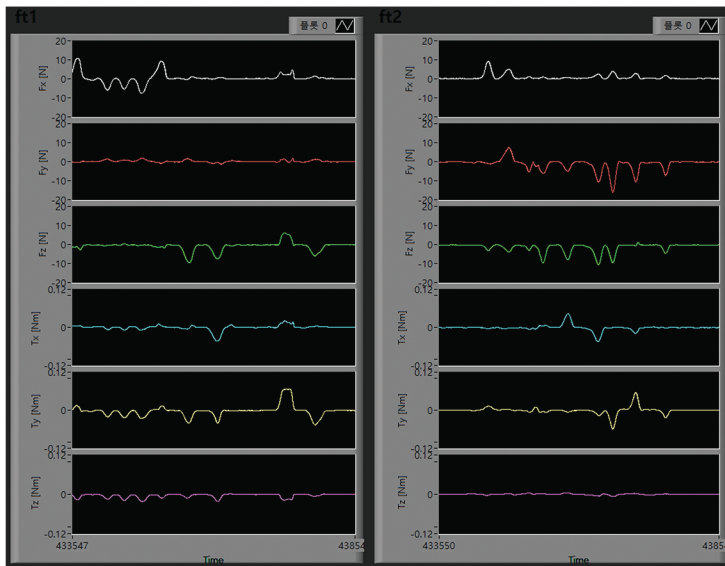
- ▼ Enables quantitative evaluation of orthodontic forces, which was difficult with conventional methods
- ▼ Provides an optimized experimental environment for dental research and clinical education
- ▼ Delivers objective data to support orthodontic treatment planning

Item	Specification	Item	Specification
Main Function	Orthodontic 6-Axis F/T Measurement	Force Resolution	0.1 N (10 gf)
Software	Real-time Monitoring, Processing and Data Recording	Sampling Interval	10 ms (100 Hz)
Teeth Supported	4 – 14 EA (Maxilla)	Max. Data Saving Duration	Up to 7 days
Measurement Capacity	Up to 7 Sensors (simultaneous)	Data Output	CSV via USB
Tooth Model	Custom models supported	Operating Environment	20 – 40 °C / 30 – 50 % RH
Sensor Measurement Range	Force 20 N / Torque 0.1 N·m	Dimensions / Weight	200 × 180 × 120 mm /2.5 kg
Orthodontic Force Range	Max 10 N (varies by tooth)	Power	DC 5 V (adapter included)

Orthodontic Force-Torque Mechanism



Example of Graph changes based on Force and Torque measurements



FAQ

Q What is the maximum measurable force?

- ⋮ A Recommended limit: 10 N (may vary with tooth height)
(e.g., Sensor-tooth distance 12 mm → 10 N, Sensor-tooth distance 20 mm → 5 N)

Q What is the maximum data storage time?

- ⋮ A It depends on the sampling interval, with a maximum duration of up to 7 days.

Q How many measurement points can be set on a tooth?

- ⋮ A Up to 4 points of interest can be designated for measurement.

Q Is a clear aligner provided as a standard option?

- ⋮ A Clear aligner fabrication service is not provided.
We recommend using the patient's existing aligner.

Q How long is the warranty period?

- ⋮ A The warranty period is 1 year.

Q Is the sensor waterproof?

- ⋮ A Not waterproof, please handle it with care.

Homepage

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