

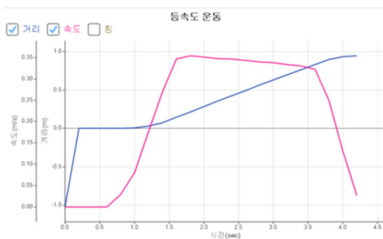


The wireless smart cart can be used for a variety of mechanical experiments on machine tracks or flat surfaces. As the magnet connected to the wheel rotates, the rotation angle can be used to measure the distance the cart moves. Additionally, it has built-in force sensors, acceleration, and angular velocity sensors, allowing for various dynamic experiments.

Magnetic rotation sensor capable of determining position, 3-axis acceleration, 100N force sensor that can measure push and pull forces, The wireless cart is equipped with a top for placing weights (weights not included), a rubber bumper to measure the amount of impact, and low-friction wheels for constant speed movement, allowing for a variety of experiments.

It supports both Bluetooth classic mode and low power mode, so it can be used on various smart devices, and can also be connected to a PC via USB.

You can use various functions through the dedicated app (Science#).



\* Download 



## Technical data

■ Measurement performance	
Range	Velocity : $\pm 3$ m/s Force : $\pm 10\text{N} / \pm 100\text{N}$ 3-axis Acceleration : XYZ $\pm 16\text{g}$ 3-Axis Gyroscope : XYZ $\pm 500$ °/s
Resolution *	Position : 0.5 mm Force : 0.01N / 0.1N Acceleration : 0.001 g Gyroscope : 0.1 °/s
Sampling Rate	100 Samples/second

■ General Conditions	
Detection	Built-in Wheel Magnetic Encoder
Operating Power	Li-Poly Rechargeable Battery (1,000mAh)
Power Consumption	1.4W
Power Requirements	USB (DC 5V, 0.5A)
Battery life **	Approximately 4 hours(after full charge)
Wireless Connection	Bluetooth 5.0 or 2.1+EDR
Charging Connection***	USB Type-C
Operating Environment	-20 to 60°C, Max. 85%RH
Compliance	EN 61326-1, EN 55011, EN 55032, EN 301. CE, RoHS, SMD070

■ Mechanics specifications	
Dimension(WxLxH,mm)	173 * 85 * 48 mm (excluding accessories)
Wire Length	max. 220 * 85 * 48
Weight	500 g ( 17.6 oz)
Housing Materials	Aluminum alloy, steel ABS, POM
Housing Protection	IP30

\* This resolution can be viewed through the Science# application.

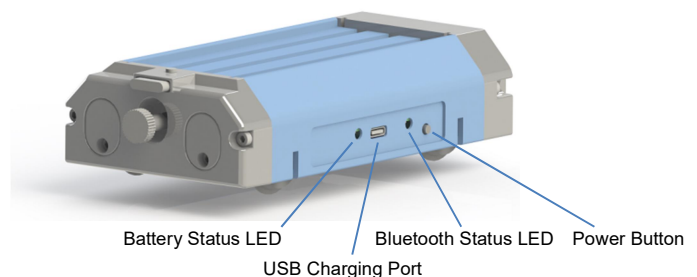
\*\* Battery life varies by use, configuration, temperature, and many other factors; actual results will vary.

\*\*\* Only charging is possible and USB communication is not used.

## ■ Accessory

- Rubber Bumper
- Hook

## ■ Product Appearance Design



## ■ Notices

- This product is to be used for educational purposes only. It is not appropriate for industrial, medical, research, or commercial applications.
- Our products and the contents are subject to change without any notice. In consequence we cannot assume responsibility for any consequential or other damage resulting from the use of this instrument.

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