

Embody Your Ideas



You can create a robot incredibly quickly
by Keigan Motors

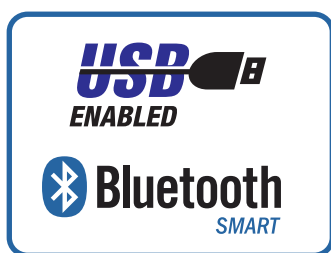
Easy to Use

All-in-One

BLE Supported

USB Powered

Keigan Motor is an all-in-one electric motor module. It includes a brushless motor, a control board with a BLE (Bluetooth Low Energy) chip, a rotary encoder, and a 6-axis accelerometer-gyro sensor.

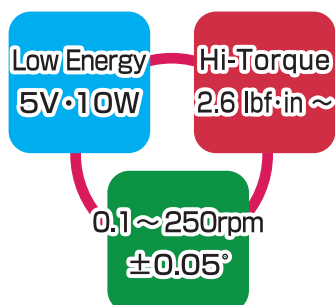


You can use a portable USB battery as a power source.

As soon as you unbox your Keigan Motor and plug it into your portable USB battery, you can control it from your smartphone!



High-Performance Motor



Smooth

Silent

Low-Power Consuming



We also developed a high-performance brushless and gearless servo motor. As is well known, brushless motors have many good points, which are preciseness, smoothness, quietness and low-power consumption. Keigan Motor, whose maximal torque is over 2.6 lbf·in (0.3N·m) with less than 10W power consumption, rotates precisely, smoothly, and quietly. It can be controlled to any angle you like with accuracy of 0.05°.

Cooperative Control

Robot Starter Kit
SmartPhone APP
API



Even a single Keigan Motor is amazing, but it's more amazing to combine multiple ones. As they don't require any wires other than power USB cables, you can design a robot with multiple motors relatively quickly. Also, we provide APIs and apps for smartphones to control them synchronously. So you can enjoy designing and controlling your own robot.

Are you a beginner in robotics? No problem! We will also release a robot starter kit for which you can create three or more kinds of useful robot without the need for special tools. It consists of two Keigan Motors, high graded black aluminum frames, adapters for cameras, and so on.

Model	KM-1		
Release Date	June 2017		
Application Field	Automation, Camera Platform, Turntable Telepresence Robot, Wheeled Robot, etc.		
Communication Ports	Bluetooth Low Energy USB(MicroB) Serial Comm. x1 I2C Serial Comm. x2		
Supported Control Device	SmartPhone, Tablet, PC, Single Board Computer		
Power Input	5V 10W(max 3A) from USB Type-C		
Motor System	Direct Drive Outrunner Brushless DC Motor (Gearless)		
Max. Torque	2.6 lbf·in (0.3 N·m)	Storage	16MB Flash Memory
Speed	0.1rpm-250rpm	Size	W2.8", D2.8", H1.4" (W70mm×D70mm×H35mm)
Rotary Encoder	14bit Magnetic Rotary Encoder(±0.05°)	Weight	12.3oz.(350grams)
Other Sensors	6-axis Accelerometer & Gyro Sensor		

<https://www.keigan-motor.com>