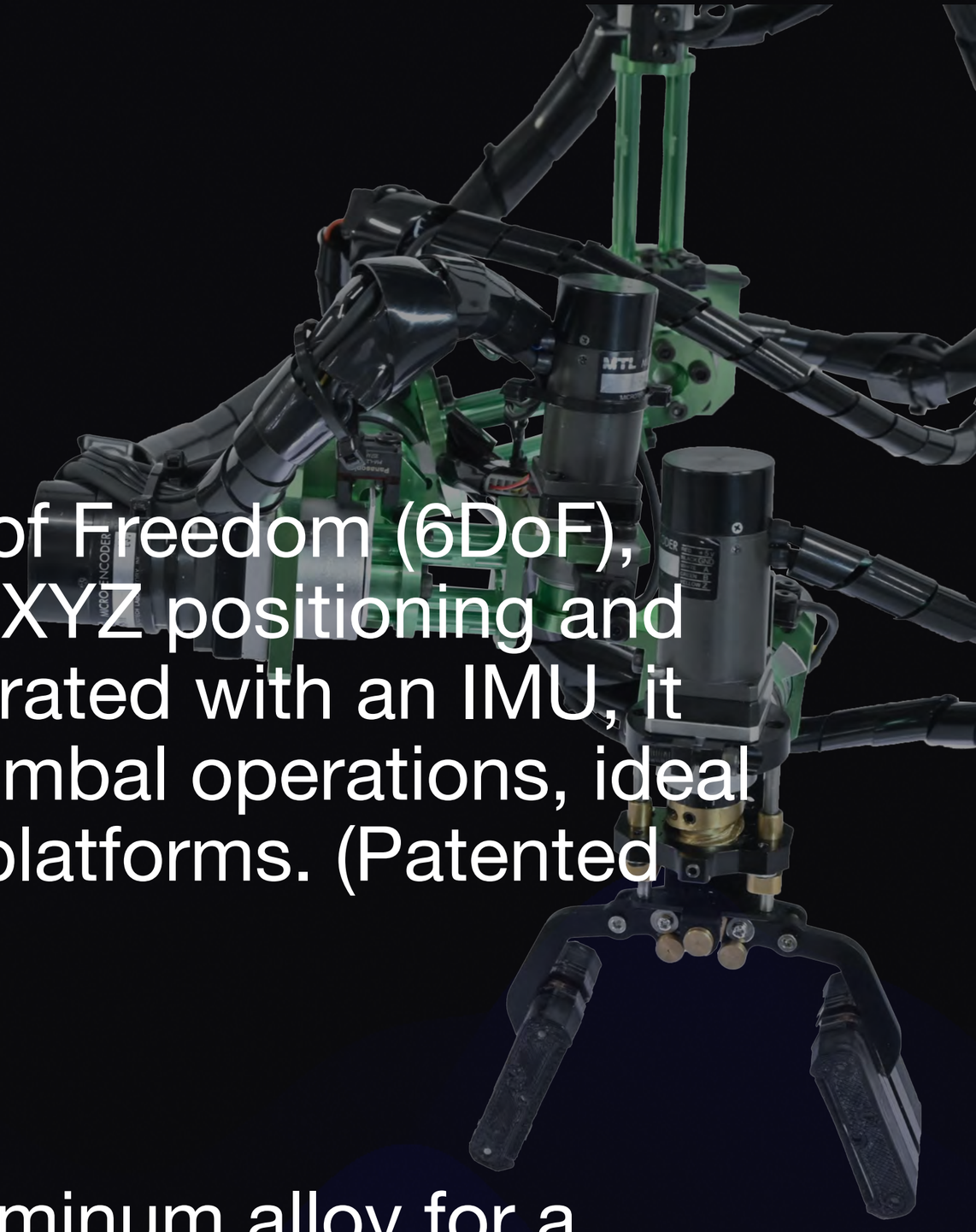
KAILAS
ROBOTICS

KR-UAV-001

Robotic Arm For UAVs

Features



- **Control and Stability**
  This arm features 6 Degrees of Freedom (6DoF), allowing precise control over XYZ positioning and yaw/roll/pitch rotations. Integrated with an IMU, it absorbs vibrations through gimbal operations, ideal for drones and other mobile platforms. (Patented technology)

- **Material Excellence**
  Constructed using A7075 aluminum alloy for a combination of high strength and lightweight. This makes it perfectly suitable for drones and unmanned ground vehicles (UGVs), powered directly from batteries.

- **High Performance Motors and Gears**
  The arm is equipped with compact, high-torque BLDC motors, 20-bit resolution absolute encoders, backlash-free harmonic gears, and highly controllable small motor drivers. Rapid responses and precise control are achieved through high-speed EtherCAT communication.

KAILAS
ROBOTICS

Features

- **Versatile Compatibility**
  Offers complex motion instructions using flowcharts and 6DoF action commands from iOS and Android devices. Capabilities include teaching and monitoring.

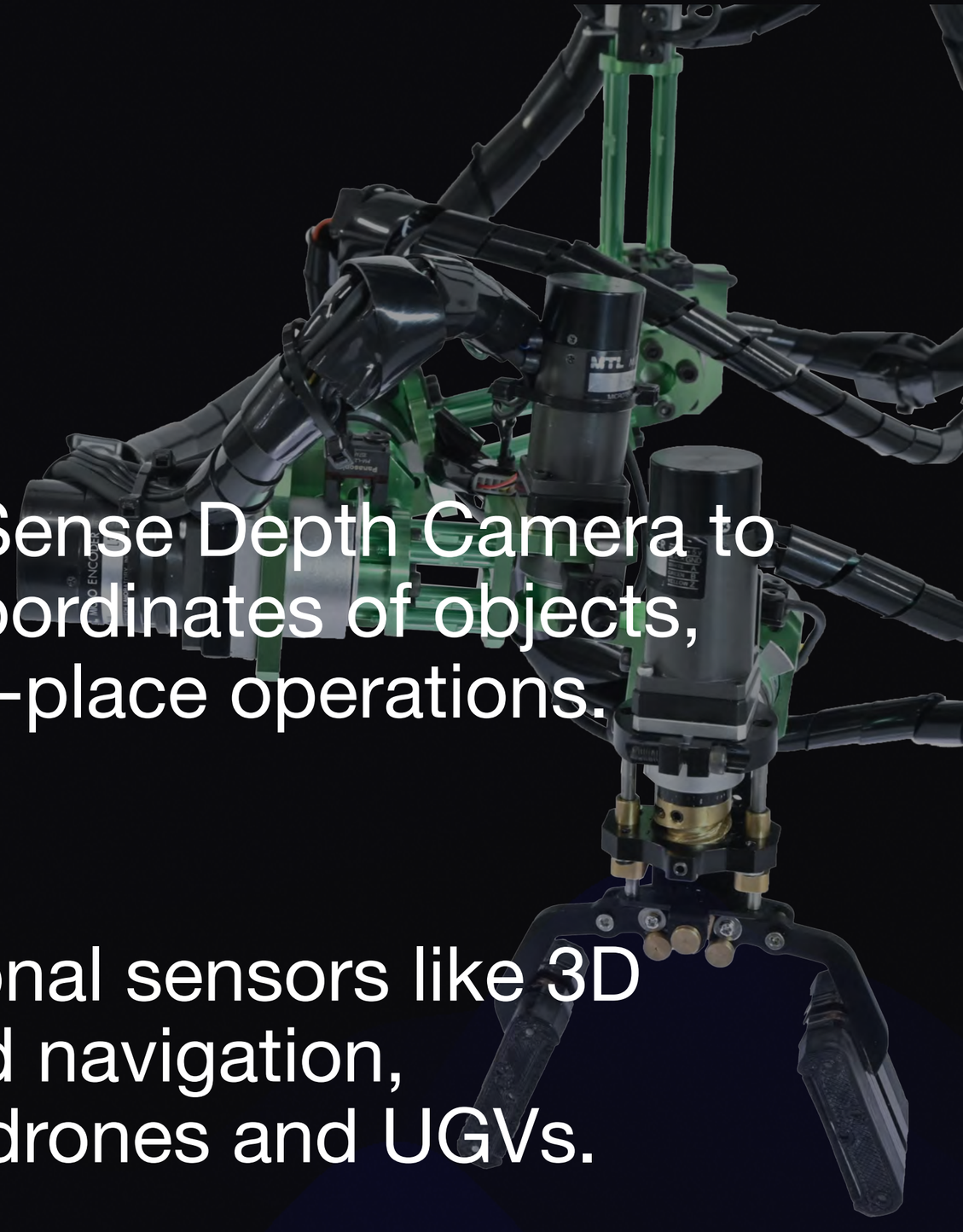
- **Advanced Development Support**
  Comes with built-in Ubuntu/ROS2 for application development and supports third-party application development through an SDK.

- **Enhanced Sensing Capabilities**
  Features a 6DoF force/torque sensor enabling direct human teaching, collision detection, and applications requiring force/torque control.

- **Customizable End Effector**
  Standard torque-controlled gripper provided, with customization options available to suit various applications.

KAILAS
ROBOTICS

Features



- **Intelligent Vision System**
  Integrates with the Intel RealSense Depth Camera to pinpoint three-dimensional coordinates of objects, enabling automated pick-and-place operations.
- **Sensor Integration**
  Capable of integrating additional sensors like 3D and 2D Lidar for mapping and navigation, enhancing coordination with drones and UGVs.

- **Extensive Connectivity**
  Supports connections to external devices or wireless units via Ethernet, USB, UART, GPIO, and RS485 interfaces.

Specs

Material:	A7075, A5052
Size:	212.9mm x 202.5mm x 259.3mm(x,y,z)
Weight:	Robot Arm 1400g, Control unit 1000g
Power:	24V, **A (Battery power possible)
Temperature:	0~50°C

Contact: info@kailasrobotics.com
Japan Office: SAITEC Room 506,3-12-18 Kamiaoki, Kawaguchi-shi, Saitama, 333-0844, Japan
US Office: 212-214 Homer Ave, Palo Alto, CA 94301, USA

KAILAS ROBOTICS