

CAU Mountain&Sea

Middle Size Team Specification

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- Robot name: Booster K1
- Height: Approx. 95 cm
- Weight: Approx. 19.5 kg
- Total Degrees of Freedom: 22
- Leg Degrees of Freedom: 6 (per leg)
- Arm Degrees of Freedom: 4 (per arm)
- Head Degrees of Freedom: 2
- Hip Joint: $P -171^\circ \sim 126^\circ$, $R -22^\circ \sim 89^\circ$, $Y \pm 59^\circ$
 - (Note: $P=Pitch$, $R=Roll$, $Y=Yaw$)
- Knee Joint: $0^\circ \sim 127^\circ$
- Ankle Joint: $P -50^\circ \sim 20^\circ$, $R \pm 20^\circ$
- Max. Peak Torque: 60 N • m

- **Joint Encoder:** Dual Encoders
- **GPU:** 200 TOPS AI Computing Power
- **Camera:** Binocular Depth Camera
- **IMU:** 9-Axis IMU
- **Voice Module:** 6-Microphone Ring Array + Speaker
- **Battery:** 5 Ah
- **Battery Life:** 80 min (walking at 0.4 m/s)
- **Wi-Fi 6:** Supported
- **Bluetooth 5.2:** Supported
- **Buttons:** Power Button ×1, Interaction Buttons ×3
- **Expansion Port:** Gigabit Ethernet