

Title of the Project		POC: Training of different types of Robots	
S#	Item	Specification	QTY
1.	Unitree R1 Humanoid Robot U2 Edu version	• Total Degrees of Freedom (DOF): 26 • Head DOF: 2 • Computer Module: 100 TOPS • SDK / Developer Support: Yes (High-level and Low-level interfaces Supports Isaac Sim and more) • Warranty Period: 12 Months • Max Payload (per arm): 2 kg (improving) • Height × Width × Thickness (Stand): 1210 × 357 × 190 mm • Weight (with battery): ~25 kg • Single Leg DOF: 6 • Single Arm DOF: 5 • Waist DOF: 2 • Stereo Camera: Yes • Microphone Array: 4-Mic Array • Speaker: Yes • Wireless: Wi-Fi 6, Bluetooth 5.2 • Smart Battery: Quick-release Lithium battery • Battery Life: About 1 hour • Wiring: Hollow + Internal • Joint Encoders: Dual + Single Encoder • Joint Bearings: Crossed roller bearings, Double-row ball bearings • Joint Motors: Low inertia, high-speed internal rotor PMSM (Permanent Magnet Synchronous Motor) • Arm Length (Forearm + Upper Arm): 435 mm • Leg Length (Shank + Thigh): 675 mm • Upgraded Intelligent OTA: Yes • Joint Movement Range: Waist: Y ±150°, R ±30°, Knee: -10° to +148°, Hip: Y ±157°, P -168° to +146°, R -60° to +100° • Cooling System: Local air cooling • Packing List: 1 × Robot, 1 × Battery, 1 × Charger, 1 × Joystick, 1 × Protection Frame • Required all necessary cables and connectors	01
2.	Unitree Robotics R1 Battery (R1 Battery)	• Product Dimensions: 85 mm × 83 mm × 146.5 mm • Charge Limit Voltage: 37.8 V • Nominal Voltage: 32.4 V • Rated Capacity: 6000 mAh (194.4 Wh) • Battery Management System (BMS): Proprietary BMS • Functions & Protections: • Battery Level Display • Battery Storage Self-Discharge Protection • Balance Charge Protection • Overcharge Protection • Overdischarge Protection • Short Circuit Protection • Battery Load Detection Protection	1

Note: All the components installed should be compatible with the system and each other.

a) Please tick the relevant box

☒ Testing

☒ Warranty requirement