

SRA Service Robot Arm

Version SRA 1000 HD

This arm has been designed specifically for service robotics applications. Reach and payload orient on the human arm and the integrated electronics allow a compact design.



preliminary picture

Applications

- Service robotics
- Mobile manipulation
- Educational applications
- Show room, trade fairs, entertainment

Drives

- Maxon High Quality EC and DCX motors
- Integrated electronics, coupled by CAN field bus
- Harmonic Drive® gears in joints 2 and 3
- Absolut encoder, no calibration required

Control

- Integrated robot controller TinyCtrl: dedicated robot control software on embedded Linux board
- Interfacing via Ethernet or Teach Pendant

- Jogging in joint and cart mode
- Definition and replay of robot programs with standard commands
- Operation and programming with the CPRog robot control and simulation environment on a connected Windows computer
- Interface to customer applications (e.g. ROS) using the Ethernet based CRI interface

Specifications

- Kinematics: Six axis standard robot arm
- Payload: 1.5 kg at half reach, 1 kg fully extended
- Reach: 800 mm plus gripper
- Weight: 6 kg
- Supply Voltage: 24 V

Options

- Brakes for joints 1, 2 and 3 can be added.
- Electrical two finger gripper
- Teach Pendant with 3D joystick and 7" touch screen

→→→ www.cpr-robots.com