

UBR-1/UBR-1S

| TECHNICAL SPECIFICATIONS | |
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| ROBOT (model) | UBR-1/ UBR-1S |
| Weight | 73kg (160lbs) |
| Height (min/max) | 96.5/132.0 (38/52in) |
| Base Footprint | 49.53cm (19.5in) |
| Drivetrain | Differential Drive Base with Drop Suspension |
| Max Drive Speed* | 0.75/ 1.0m/s (1.67/ 2.23mph) |
| Degrees of Freedom | 13 DOF (Base, Torso Lift, 7-DOF Arm, Gripper, and Pan Tilt Head) |
| Environmental | Indoors, ADA-Compliant Buildings |
| 7-DOF Arm | |
| Payload (at full extension) | 1.5kg (3.3lbs) |
| Arm Length to End Effort Mount | 75.56cm (29.75in) |
| Max End Effector Speed with Payload | 1.0m/s (2.23mph) |
| Gripper | |
| Grasp Speed | 9cm/s (3.54in/s) |
| Grasp Force | 30N (6.74lbs) |
| Max Grasp Opening | 9cm (3.54in) |
| Sensors | |
| Base Laser (for navigation)* | URG-04LX-UG01/ UTM-30LX |
| Head RGBD Sensor & Stereo Microphone | Primesense Carmine 1.09 Sensor |
| Base IMU | 6-DOF: ±4g, 500 degrees/s |
| Computer | |
| Processor* | 4th Gen Intel i5/ 4th Gen Intel i7 |
| RAM* | 8GB/ 16GB |
| Hard Drive Capacity* | 120GB/ 240GB |
| Wireless Connectivity | Integrated Mini-PCIe Card 802.11ABGN & 802.15.1 |
| External Interfaces | 2x USB 2.0, 1x USB 3.0, 1x Displayport, 1x Ethernet |
| Speaker | Built in stereo USB speaker |
| Runtime | |
| Continuous Operation (continuous movement) | approximately 3-5hrs |
| StandBy Operation (intermittent movement) | approximately 10hrs |
| Charge Time | 3.5hrs to 90% charge |
| Gripper Modularity Interface | |
| Power | 24V, 1A max |
| Gripper Weight | 0.5kg (1.1lbs) |
| Communication | RS-485 Half-Duplex |
| Extensibility | |
| Base | Mount Points on Top of Base Near 2x USB 2.0 Ports |
| Head | Mount Points Head Tilt Near 1x USB 3.0 Port |
| Standard Software | Ubuntu Linux LTS, ROS |
| Standard Applications | ROS Navigation, MoveIt!, Calibration, Joystick Teleop |

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