

## UXA-90 LIGHT Technical Specification(Finalized) for Linux version.

1. Height 1 m , Weight 9 kg , Width 35 cm
2. Movable similar to human.
3. Walking speed 30 cm/sec
4. DOF (Degree of Freedom)
  - 12 DOF for legs
  - 8 DOF for arms
  - 1 DOF for waist
  - 2 DOF for head
5. Sensor IMU 2G 9 Axis , $\pm 180^\circ$  (Roll/Yaw),  $\pm 90^\circ$  (Pitch)
6. Inside Computer : Intel Core i3-1115G4 Processor(6m Cache, up to 4.10GHz), Samsung DDR4 8GB PCS-21300, Crucial P2 M.2 NVMe 250GB TLC, Bluetooth
7. Wireless Intel WI-FI 6 AX201
8. Speaker 1 set
9. Microphone 1 set
10. Vision camera HD 1920 x 1080 pixel
11. Operating with Windows7 or Linux Ubuntu 14.04-> Linux Ubuntu 20.04 LTS (ROS1 Noetic, OpenCV 4.x.x, QT compiler )
12. Battery Lithium Polymer 18.5V,3000 mA. Operation hour 20 min - 40 min. Charging time 30 min
13. Cooling fan installed at the chest of the robot (no room for cooling fan due to speaker installed)
14. Can be used with Motion Builder and SAM Programmer