

COBOT MAGIC

Open-Source Bimanual Mobile Manipulation
with Whole-Body Teleoperation



- Whole-body teleoperation system
- Ultra-lightweight 6DoF robotic arms
- High-performance on-board computer
- 2-Wheeled differential drive mobile robot
- Completes complex tasks via imitation learning



X (Twitter)



YouTube



LinkedIn

Introduction

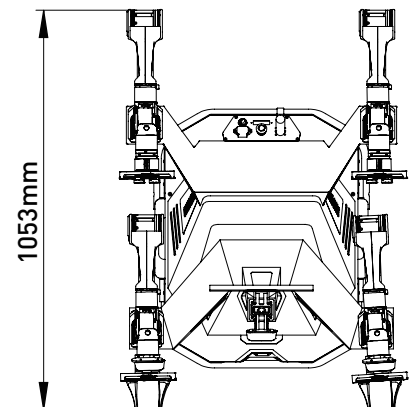
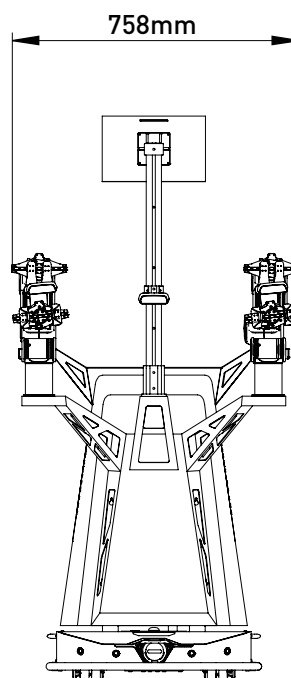
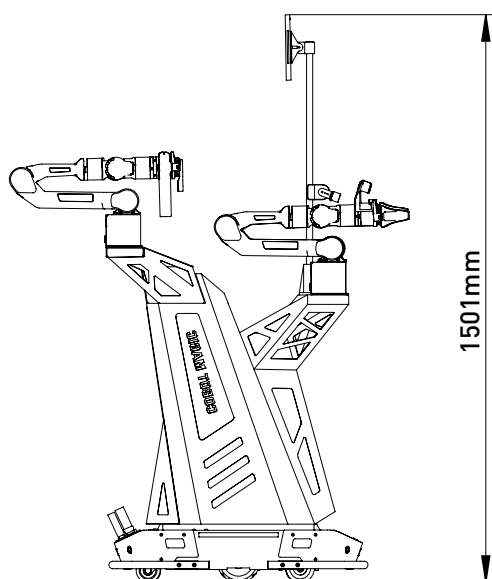
Cobot Magic is an open-source robotic system leveraging Mobile ALOHA to complete simultaneous tele-operation of a mobile base and robotic manipulator. The platform comprises an indoor differential drive AGV base, high-performance robotic arm, in-depth camera. It facilitates the Mobile ALOHA's deep learning framework for robotic tasks ranging from basic pick-and-place to complex operations like pouring, cooking, calling and entering an elevator, and putting objects in order. Cobot Magic allows users to effectively exploit open-source hardware and software for robotic learning and control.

Technical specifications

Wheeled Mobile Robot	Tracer
Depth Camera	Orbbec Dabai
USB Hub	12V Power Supply
6DOF Lightweight Robotic Arm*4	PIPER
Adjustable Velcro*2	Customized
Grip Tape*2	Customized
Power Strip	4 Outlet
ALOHA Stand	Customized
On-board PC	APQ-X7010/GPU 4060 i7-9700-32G-4T

Keyboard	Logitech
Display	11.6"1080P

Dimension



*All data was tested by AgileX Robotics in a controlled environment. Actual experience may vary depending on the environment and usage.