

Technical Specifications

Learn more about the technology stack that makes AIVOT your workforce multiplier

Hardware

AIVOT's integrated hardware was built to withstand the realities of tough work conditions, combining commercial-grade shaped plastic and metal parts, serviceable off-the-shelf motors and other electronics to balance durability and cost.



Range of Motion

Emulates a nearly full range of human motion with a mobile base, self-adjusting height, and two 7-DOF independently functioning arms with 3-finger grippers.



Grasping Abilities

Enables AI-augmented fine motor skills with a three-finger gripper able to hold objects in encompassing or pinch grips and move at 0.75 meters per second.



Lifting & Moving

Able to perform a wide variety of lifting and moving tasks with a lift capacity of 10 lbs payload per arm.



Directional Movement

Easy operation in the tightest work environments with 2m per second plane surface speed and requiring only 0.75 m² ground clearance to avoid obstacles.



Untethered Motions

A real-time understanding of its work environment based on 4 embedded color-depth cameras with automatic pan/tilt control integrated directly to the platform's core software.

Technical Specifications

Learn more about the technology stack that makes AIVOT your workforce multiplier

Software

AIVOT integrates dozens of cutting edge softwares directly with its platform to offer a solution capable of navigating the modern workplace and improving through environmental and real-time feedback, just like humans do.



No Code Interface

Easy configuration and feedback with an expandable GUI-based skills studio that allows operators to specify the objects, actions, and goals of their interaction.



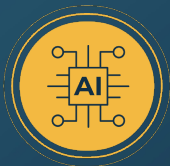
Situational Awareness

The ability to detect, isolate, and track multiple moving objects with deep learning allows it to work alongside humans and other types of moving machinery.



Open-ended Navigation

Continuous environmental mapping allows the device to work in an **open ended** environment and adjust to changes in real time.



Collision Avoidance

AI assisted 3D analysis creates an understanding of an object's **real world** properties including how the object relates to each other objects and itself.



Optical Character Recognition

A combination of onboard scanners and OCR allow the device to read, understand, and act on text in multiple settings including scales, barcodes, and even handwriting.