seeed studio

INDUSTRIAL PRODUCT DATASHEET

Educational Test Tube Manipulation Kit for Robotic Arms

The Test Tube Manipulation Education Kit includes centrifuge vials and a yellow tube rack designed for NVIDIA Sim-to-Real courses.

SKU	UPDATED	PRICE
100035223	2026-11-11 06:37:16	$12.00(Excl. VAT)



Overview



The Test Tube Manipulation Education Kit includes centrifuge vials and a yellow tube rack designed for NVIDIA Sim-to-Real courses. Compatible with our robot arm, it provides a standardized setup for learning robot manipulation, NVIDIA Isaac Sim, and Sim-to-Real deployment.

Key Features

01 **Sim-to-Real is the process of developing or training robot policies in simulation and transferring them to physical robots.**

02 **NVIDIA Isaac Sim is a robotics simulation platform built on NVIDIA Omniverse. It provides a physics-based virtual environment for developing, testing, and training AI-powered robots before deploying them on physical hardware.**

Product Gallery



Applications

- **Sim-to-Real with SO-ARM101:** Pair the kit with SO-ARM101 and follow NVIDIA's Sim-to-Real learning course to explore the complete workflow from simulation to physical robot deployment.
- **The standardized test tube task provides a practical environment for learning:**
- **Isaac Sim Environment Setup — Recreates the robot and manipulation task in simulation.**
- **Robot Manipulation — Practice grasping, moving, and placing centrifuge vials.**
- **Sim-to-Real Transfer — Transfer workflows developed in simulation to the physical SO-ARM101.**
- **Policy Evaluation — Compare robot behavior between simulated and real environments.**
- **Free Physical AI & VLA Course:** In collaboration with NVIDIA, Seeed offers a free Physical AI & VLA course using the Test Tube Manipulation Education Kit as a standardized training setup. Learn to collect real and simulated robot data, augment datasets with NVIDIA Cosmos, fine-tune Isaac GR00T 1.7 VLA models, and deploy them with TensorRT on Jetson.
- **Course Highlights::** Real & Sim Data Collection — Collect teleoperation data with the reBot B601-RS and simulate SO-ARM101 setups in NVIDIA Isaac Sim.
- **Cosmos Scene Augmentation — Generate diverse training data with NVIDIA Cosmos.**
- **GR00T 1.7 Fine-Tuning — Fine-tune VLA models on custom robot datasets.**
- **Jetson Deployment — Accelerate VLA inference with TensorRT on Jetson platform.**

Resource Links

- https://www.seeedstudio.com/Test-Tube-Manipulation-Education-Kit-for-reBot-p-7026.html

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