OMRON 3D Pick Manager Solution

Introducing OMRON's 3D Pick Manager, the most flexible bin picking solution.

The 3D Pick Manager from OMRON helps users quickly automate their material handling needs. The solution is easily able to pick-and-place various shapes, sizes, and weights allowing the user the flexibility to frequently changeover their applications.

A click-through sample application wizard quickly guides the end user through part and bin setup, camera settings, and the picking sequence.

The 3D Pick Manager and calibration kit includes all hardware and software necessary to teach the robot posiition relative to the 3D scanner and to get the Viper robot pick application up and running.

The 3D Pick Manager bundles includes:
- Viper 650/850 standalone robot
- ACE 3D Pick Manager software
- Photoneo PhoXi 3D Scanner (Small, Medium, or Large)
- PoE Cable + Power Injector
- EtherCAT Cable (From PoE to IPC)

High Performance.

The 3D scanner is a high performance, industrial grade, IP65, 3D scanner with image acquisition as fast as 250 ms. It takes less than two seconds to scan, localize, and path plan for simple geometry parts.

Ease of Integration.

Unlike other leading solutions, the user can program their entire application through one software package, OMRON's ACE software. ACE software offers a simple way to customize applications for data tracking or other picking applications.

Flexibility.

ACE software allows the user to easily change target parts with the click of a few buttons. The user may utilize ACE Recipe Manager to simply switch between programmed applications or teach new parts with CAD drawings or simple geometic shapes.

Other Key Features include:
- Easily upload part CAD files or use simple geometry to teach target parts.
- High-quality Photoneo PhoXi 3D scanner is fully integrated into OMRON's ACE 3D Pick Manager software platform.
- Available solely on the Viper 650/850 stand-alone robot series.

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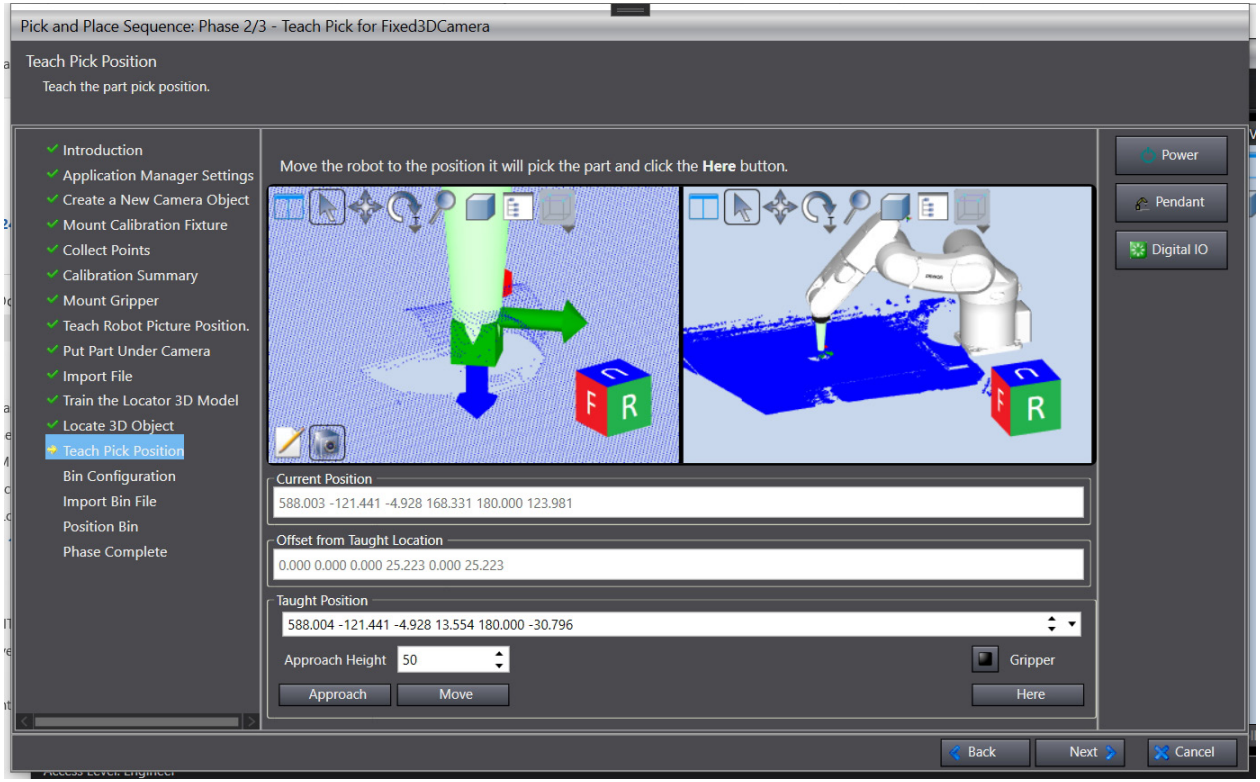

3D Pick Manager Teach Sequence

- 1. Connect and set up the camera.
- 2. Import the CAD files and position the bin in the workspace.
- 3. Run through the robot-to-camera calibration.
- 4. Setup the gripper and gripper clearances.
- 5. Import the target part CAD file and teach the pick position.
- 6. Run the application!
- 7. Changeover or optimize the application as necessary.

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