

R400

PickMaster 3 Basic Configuration and Commissioning

Course goal

The goal of this course is to learn the Configuration, Commissioning and Maintenance of a basic PickMaster 3 installation on a single robot system.

Learning objectives

Upon completion of this course, the participants will be able to:

- Understanding the possibilities and limitations of PickMaster 3
- Setting up and running a complete PickMaster project for a single robot
- Understanding the hardware components, wiring and network connections
- Knowing the capabilities and limitations of the vision tools
- Creating commonly used vision models and understanding the effects of the vision parameters
- Using the logging tools
- Applying simple picking specific adoptions in the RAPID code
- Knowledge to select suitable installations for PickMaster 3

Participant profile

This training is targeted to service and application engineers, programmers and system integrators.

Prerequisites

Students shall know the fundamentals of working with the IRC5 robot controller, good knowledge of Windows 7 or XP, and basic understanding of packaging applications.



Topics

- Course Overview
- Introduction to PickMaster 3
- Feature scope of PickMaster 3
- Configuration
- Vision calibration, modeling and tuning
- Production panels
- PickMaster RAPID program
- PickMaster conveyor tracking
- Hardware components and wiring
- Logging
- Performance and limiting factors

Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 70% of the course is hands-on lab activities.

Course duration

The duration is 3 days.

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Course outline

Day 1

- Course Overview
 - Introduction to PickMaster 3
 - Basic Concepts of PickMaster 3
 - Application case studies
 - Introduction to vision technology
 - Hardware connections and wiring
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Day 2

- PickMaster conveyor tracking
 - Indexed work areas
 - Containers and Patterns
 - Remote Integration Services (RIS)
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Day 3

- RAPID modifications
 - Outlook to advanced collaboration and vision functions
 - Summary and Recap
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