

# Product Information Sheet

## Robotics Trainer



Our STEM learning packages have been designed to provide practical real world problem solving tasks and activities within the classroom or lab environment.

These activities will provide an engaging approach that helps instructors show contextualized linkages between Science, Technology, Engineering, and Mathematics.

The Robotics Trainer offers a classroom-based resource for practical investigation of the technology and engineering behind modern automated systems. Users can select from a range of prepared demonstration programs to explore the design and logic used to program automated systems. The interface software also allows for users to develop their own programs using BASIC style programming commands.

The trainer is supplied with a curriculum CD containing theory and practical learning tasks, as well as tutor support materials.

The trainer can also be used in conjunction with our optional cloud-based STEM software packages, which offer online practical tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

### Typical Practical Activities Include:

- Manual Control of a Robot
- Flowcharts and Programs
- Sensing, Decisions, and Counting
- Open and Closed Loop Control
- Transportation Around the Work-cell
- Manipulating Parts
- Industrial Robots

- Pre-programmed sequences
- Problem Solving

### Items Included:

- Robotic Work-cell
  - Baseboard
  - Conveyor Belt
  - Infra-red Light Gate
  - Component Dispenser (Large and Small)
  - Component Bin
- Robotic Arm
- Power Supply
- Accessory Kit
- USB to Parallel Adapter
- Curriculum CDROM
- Robot Control Software

### Other Items Required:

- LJ Create Engineering or Technology Content (Optional)
- Computer with DVD Drive and Spare USB Port

### General Information:

Trainer Dimensions: 785 x 260 x 535 mm (W x H x D)  
Power Requirements: 110 – 240V 50-60Hz  
Packed Volume: Approx. 0.287 m<sup>3</sup>  
Packed Weight: Approx. 14.35 kg

**Order Code: 240-01**

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