

RoboThespian Standard Specification – Model RT2A – July 2008

This specification applies to all RT units ordered from Q3 2008

what's new :

Software.

- Simple 'drag and drop' interface for creating new robot performances.
- Advanced motion programming using virtual 3D robots.
- Remote diagnostics and set up for all hardware modules.
- Improved error checking and fault reporting.

Mechanical.

- Transparent body shell for legs and forearms.
- Articulated hands with four independent fingers on each hand.
- Rotation axis in the forearms.
- Proportional control of wrist flex / extend axis.
- Position feedback on all major axis.
- Improved leg design

Electrical.

- Fully integrated motion control boards – easy to swap in the event of faults.
- Internet connection for motion control boards for remote diagnostics.
- Improved wiring harness – reduces 'broken wire' faults.

What's in the box:

The system is provided complete and ready to run.
Two days set up and training are included in the sale price.

Complete RoboThespian with 30 powered axis.

Features:

Moving fingers
LCD eye screens
Auto lip sync mouth
Clear body shell

Support unit

Features:

Rotation axis to turn RoboThespian through 180 degrees – full proportional control
This unit is designed to drop into a 600mm (24") circular opening in a false floor – 300mm (12") of clearance is required beneath the false floor.

Base Unit – Touch Screen Console

Features:

19" high quality touch screen
PC control unit and robot control gear.

Remote interface PDA

Features:

Control all RT's features remotely
Use for 'live' control of RT.

Preloaded Software.

Features:

Select pre recorded content to play.
Create new content with a graphical 'drag and drop' interface – for visitor use.

Advanced Motion Creation Software

Features:

Virtual 3D RoboThespian's that link to the actual hardware via an ordinary LAN connection. – control an on screen model and watch the real robot move – based on the open source 'Blender' 3D software this is provided free of charge and will run on either Windows, Mac, or Linux systems.
Multiple robots can programmed at once.
This advanced tool requires knowledge of 3D animation techniques.

What you need to provide

- False floor / or stage with 600mm (24") circular opening and 300mm (12") clearance.
- Hand rail or barrier to prevent visitors touching the robots
- Electrical power supply – 115 – 230 vac 50-60hz single phase (standard US outlet is fine).
- Compressed Air Supply at 8 Bar Pressure minimum (120 PSI)
- Internet connection for remote maintenance and diagnostics.

Fully detailed installation specification with drawings available on request.