

QAxis

Stage Automation

The screenshot displays the QAxis Stage Automation software interface. The main window is titled "QAxis - C:\Users\info\OneDrive\Documents\AVW Controls Ltd\Projects\Current\1802 - POTO Brazil 2018\POTO_ShowFile_180522.qax". The interface is divided into several panels:

- Cue Control:** A list of cues with columns for Cue Number and Cue Name. Cues include "Chandelier Lift & Fly", "Hannibal Boxes On Footlights Up", "Hannibal Gals Boxes On Cancel Footlights", "Gala Boxes Off Rev Swag, Footlights down", "Gala Rev Swag 25%, Footlights cancel", "Gala Rev Swag Close", "Backstage Rev Tabs Wipe On", "Dressing room Reverse Tabs Off", "Travelator & Bridge", "Bridge to Pos 1", "Bridge to Pos 2", "Bridge to Last position, Wait until finished", and "1st Larr, Candle 8 Up, Auto Follow".
- Cue Information:** Shows details for a selected cue (Cue Number 0, Cue Name "Preset"). It includes a "Follow On" section with a "No Follow On" button and a "Follow after" timer set to 000.
- System Information:** Shows pump status (Angel DM, Porticulis DM, Travelator Upstage, Candelabras Off) and an "Emergency Stop" button.
- Axis Information:** A table listing axes with their names, actual positions, status, and enabled checkboxes. The table includes axes for Candelabra 1-6, Travelator, SL Bridge, SR Bridge, Mirror/Organ, Opera Boxes, Angel, F Tabs Fly, R Tabs Fly, Porticulis, F Tabs Swag, R Tabs Swag, R Tabs Wipe, Candles Up, Candles Down, and Not Used.
- PLC Information:** Shows the current PLC mode (PLC Online Mode) and a "PLC Online Mode" button.

Join the growing list of QAxis users!

Jersey Boys UK Tour
Kinky Boots UK Tour

Phantom of the Opera, Teatro Renault, Sao Paulo
Only Fools and Horses, Theatre Royal Haymarket, London
The American Clock, The Old Vic, London
Shipwreck, The Almeida Theatre, London
Mountview Academy of Theatre Arts, London

“Making live entertainment truly moving”

QAxis

QAxis® is a stage automation software product from AVW Controls Ltd.

QAxis allows us to offer off the shelf Omron PLC hardware to be used with our software.

The QAxis interface allows the operator to see all relevant cue, axis, group and edit information at the same time and allows very quick change from the running environment to the editing environment. After years of experience with Impressario, AVW have picked up on the various requests and suggestions that have come from the real theatre world and have implemented them in our new QAxis software.

- Millions of Cues
- Standard Omron PLC Hardware
- Patchable Axis
- Easy Cue Programming
- Six groups programmable on a cue by cue basis.
- Single Axis controller for immediate control of any axis
- Manual control page
- All cue, axis and system information readily displayed
- Single axis operation with an Omron CP1L PLC.
- Full multi-axis operation up to 24 axis with an Omron CJ2M PLC.
- Industry standard +/-10V analogue or pulse train output .
- Industry standard 5V TTL/24V HTL Incremental encoders or SSI Absolute Encoder input.
- As many digital inputs or outputs as required by the application.
- RS485 115KBaud communications (Omron Host Link Protocol)
- Many manual control options including touchscreen, push buttons, joysticks.
- Custom cue field which can be used on a cue by cue basis to mean anything required, e.g. motor patching.
- Fully CE Machinery Directive compliant .

The QAxis system can control up to 24 motor-driven or hydraulic axes from an Omron Programmable Logic Controller (PLC). The controlled axis can be instructed to move to any position at any speed in any of millions of cues. The QAxis graphical user interface has been developed using a Microsofts latest VB.Net (2017 VB15), in addition QAxis uses the Omron proprietary Host Link Protocol to communicate at high speed to the Omron PLC. The QAxis system uses a standard PC/Laptop running Windows 10 Operating System communicating to the full range of Omron PLCs that support Host Link Protocol. This means that the hardware can be as complex or as simple as the application demands.

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