



## Proven Control for Live Performance

The screenshot displays the QAxis Stage Automation software interface. Key components include:

- Cue Control:** A list of cues with columns for Cue Number and Cue Name. Cue 7, '7 - 2 Steps', is selected.
- Master Speed:** A vertical slider set to 100%.
- Control Buttons:** 'All Go', 'All Stop', 'Previous Cue', 'Next Cue', and 'Pause' buttons.
- Group Control:** Six color-coded groups (Red, Blue, Green, Yellow, Purple, Orange) with 'Go' and 'Stop' buttons and 100% indicators.
- Single Axis Control:** A panel for 'Left Leg' with fields for Demand, Speed, Accel, Decel, Delay, and Group.
- Axis Information Table:** A large table with columns: Axis Name, Demand, Dead Name, Speed, Accel, Decel, Delay, and Group. It lists 24 axes from 'Left Leg' to 'Axis 24'.
- System Information:** A panel with 'Emergency Stop' and 'Enable All' buttons, and status indicators for 'Deadman', 'PLC ES', 'Encoder ES', 'Encoder OK', 'Leads OK', and 'Master OK'.
- PLC Information:** Shows 'PLC Mode' as 'FINS Connect' and 'PLC Status' as 'Healthy'. A 'Show Running Time' display shows '00:00:00:00' with 'Start' and 'Clock' buttons.
- Messages:** A log at the bottom left showing system events like 'Cue 7 Loaded'.
- Collision Control:** A row of five 'Undefined' status indicators.

Deliver precise, reliable, and repeatable motion for world-class productions.

QAxis® by AVW Controls Ltd combines powerful automation with an intuitive interface, built specifically for the demands of live theatre and touring environments.

# QAxis

QAxis® is a professional stage automation control system designed for the entertainment industry. Built on over 25 years of real-world theatre experience, it provides a simple, predictable, and highly reliable way to create and control motion on stage.

Its intuitive interface allows operators to create, edit, and run cues quickly, keeping full control of complex motion without unnecessary complexity.

## Designed for Live Performance

- All key information—cues, axes, groups, and edits—visible on a single screen
- Seamless switching between programming and live operation

## Predictable, Repeatable Motion

- Motion based on clear trajectory parameters (position, speed, acceleration)
- Smooth, consistent movement operators can trust

## Engineered for Reliability

- Powered by globally available Omron PLC hardware
- Deterministic control with fast system response (<10 ms scan times)
- Designed for touring, long-term use, and easy servicing worldwide

## Proven in Production, Trusted on Stages Worldwide

QAxis powers automation in major productions including:

- The Phantom of the Opera (International productions)
- Jersey Boys (UK Tour & West End)
- Life of Pi (Sheffield Crucible)
- The Old Vic productions
- Lord of the Rings Musical (World Tour)
- Kinky Boots (UK Tour)
- & Juliet (Shaftesbury Theatre, London)
- Get Up Stand Up! (Lyric Theatre, London)
- Joseph and the Amazing Technicolor Dreamcoat (London Palladium & UK Tour)
- *The Drifters Girl* (Garrick Theatre, London)
- *The Almeida Theatre* (including *The Hunt*, *Shipwreck*, *Roots*, Tammy Faye)
- *Only Fools and Horses* (Theatre Royal Haymarket, London)
- *The Wizard of Oz* (London Palladium – overstage automation)

From award-winning West End productions to global touring shows, QAxis delivers reliable automation night after night.

# QAxis

## Safety & Control

Safety is built into every layer:

- Password protection and key-switch enable
- Deadman pedal to prevent unintended movement
- Full system logging of operator actions and errors
- Industrial control architecture aligned with modern safety standards

## Hardware & System Architecture

QAxis uses industrial-grade control technology to ensure reliability:

- Omron PLC-based system with global availability
- Ethernet-based communication (FINS protocol)
- Modular hardware scalable to project requirements
- Windows-based interface for flexibility and ease of use

## Dedicated Cue Controller

Designed for live operation, the QAxis® controller provides:

- Cue start, stop, next, and previous controls
- Group and master speed control
- Emergency stop and key-switch enable
- Deadman pedal for enhanced safety

Reliable, tactile control when it matters most.

## Programming Power

- Virtually unlimited cues (9,999,999)
- 128 reusable trims (“deads”) for efficient programming
- Cue linking for complex sequences
- Time scripting and external timecode triggering

## Control & Performance

- Control up to 24 axes simultaneously per cue
- Six playback groups for flexible show operation
- Real-time feedback on position, speed, and timing
- Time or distance-to-complete always visible

## Advanced Visualisation

- Optional 3D scene view for motion visualisation and planning

## Integration

- DMX (sACN) for lighting systems
- PosiStageNet for AV integration
- OSC and MIDI Timecode input for external control

# QAxis



## Bring Your Production to Life with QAxis

Whether you're designing a new show or upgrading an existing system, QAxis provides the control, reliability, and flexibility you need.

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