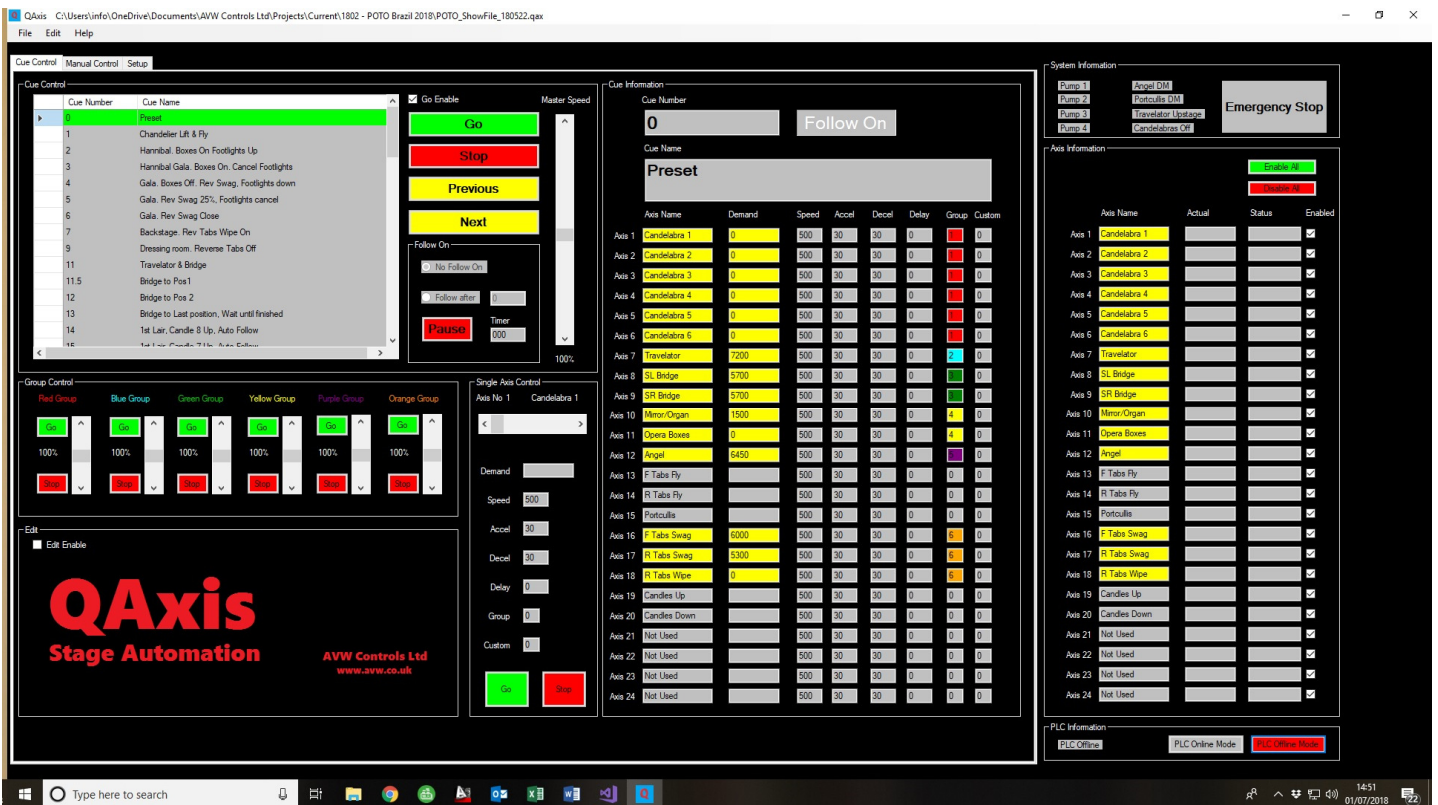


Introducing our new stage automation software!

# QAxis

Millions of Cues  
 Standard PLC Hardware  
 Patchable Axis



AVW Controls Ltd  
 Unit 12 Willow Farm Business Centre  
 Allwood Green, Rickinghall  
 Diss, Norfolk IP22 1LT

T: +44 (0)1379 898340  
 F: +44(0)1379 898386  
 E: sales@avw.co.uk  
 W: www.avw.co.uk

“Making live entertainment truly moving”

# QAxis

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 Impresario, 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 .

AVW were already using Omron Programmable Logic Controllers (PLC) for their bespoke control systems and so it made sense to use Omron PLCs as the main hardware. QAxis uses the proprietary Omron Host Link Protocol to communicate with the PLCs. In addition, the flexibility offered by using standard off-the-shelf Omron PLC hardware means that the hardware can be as complex or as simple as it needs to be to get the job done.

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 Microsoft's 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.

The QAxis software has been written using Microsoft's latest VB.Net (2017 VB 15.0) and uses object-oriented programming techniques to write, save, edit and read cue and axis data. This makes for a very efficient processing environment.