QuickQ Rack

General Overview

A. The product shall be a ChamSys QuickQ Rack as manufactured by ChamSys Ltd or approved equal.

1. The lighting controller shall be a system specifically designed to provide control of architectural, studio, and entertainment lighting systems. The controller shall be the ChamSys QuickQ Rack, as manufactured by ChamSys Ltd.
2. The system shall provide control of 4 DMX Universes, or 2048 DMX512 addresses on a maximum of 2048 control channels or parameters, with control of up to 2048 fixtures possible.
3. A maximum of 5000 cues may be contained in non-volatile electronic flash memory.
4. An external monitor port shall be provided to allow connection of an up to HD resolution (1920x1080) monitor for display of all software windows.
5. The controller shall provide inbuilt Wi-Fi to connect to an iOS or Android device running a remote-control application to display and control any window independently of the controller, which can used as a secondary display or wireless focus remote.
6. The external display and/or wireless remote app shall provide the primary interface for programming show data, multi-parameter control and system configuration.
7. The inbuilt Wi-Fi shall feature 'quick' connect where a QR code displayed on the external monitor can be scanned by the remote device (phone or tablet) to connect a remote-control application.
8. It shall be possible to connect an external USB mouse and keyboard for control over the software interface in conjunction with an external monitor.
9. A total of 10 buttons shall be provided on the face of the rack, used to activate, and deactivate stored scenes.
10. Software upgrades shall be made by the user via USB drive. Changing internal components shall not be required to carry out such updates.
11. The controller shall feature a recovery system, allowing for the controller's operating system to be restored if required.
12. The controller shall provide 2 USB ports, allowing show data to be saved for archival backups or transfer to other consoles or a personal computer.
13. Systems that do not provide the above capabilities shall not be acceptable.

Patching and Outputs

1. The controller shall provide patching facilities for dimmers and multi-parameter devices via an inbuilt library of fixture profiles. The fixture library shall be updated via software-based updates.
2. The controller fixture library shall contain access to over 60,000 fixture files.

3. Should any required fixture files not be present in the desk after an update, ChamSys support shall also be able to create fixture profiles upon request, free of charge.
4. A quick search function shall be provided via the Patch window to ensure finding required fixtures is a smooth process.
5. The controller shall support automatic patching and addressing of fixtures connected using Remote Device Management (RDM) on the local DMX/RDM ports.
6. 2 DMX Universes can be output either via the DMX ports, or the single Ethernet port on the controller via network protocols of ArtNet or sACN. The 3rd and 4th Universes are always output via network.
7. If output of a universe is set to use network protocols, this universe is still also output via the corresponding DMX output connector on the desk.

Programming Tools

1. An external display and/or wireless device running a remote app shall be required and provide access to show programming, parameter control and system configuration options.
2. The software interface contains programming windows including Intensity, Position, Colour and Beam, with controls for fixture parameters sorted into these windows for ease of use.
3. An inbuilt Multi-Emitter colour picker shall be accessible via the Colour window for use with colour mixing fixtures allowing calibrated colour control of fixtures with up to 7 colour emitters, along with inbuilt palettes and gel libraries for quick colour selection.
4. The layout view provides a customisable 2D stage layout display. It shall be possible to rearrange the graphical position of individual fixtures and groups to closely mimic the positions of said fixtures in the venue.
5. This view shall also provide a visual representation of intensity levels and colours for fixtures and groups laid out here.
6. Effects shall be available via each attribute window (Intensity, Position, Colour and Beam) and are customisable via speed, size, and parts controls.
7. Tap to time controls shall be available to set the speed of effects and chases.
8. It shall be possible to assign multiple effects to fixtures and be stored within a single cue.
9. Fixture selection shall be made via the Layout view or Intensity window.
10. Selection of multiple fixtures shall be possible using groups via the Layout view.
11. Connection to an external, PC-based visualiser system shall be possible via the controller Ethernet port, sending data over the Art-Net or sACN protocols.
12. User levels shall be provided to allow different access levels of control over the controller, notably so that programming and configuration of the controller can be password protected.
13. A choice of 7 languages shall be provided for the controller user interface, providing a native user interface in: English, German, Spanish, French, Polish, Romanian, and Dutch.

Playback Controls

1. A total of 10 buttons shall be provided on the face of the rack, used to activate, and deactivate stored scenes. These buttons shall be linked to cues recorded either on an Execute grid, or Playbacks within the software interface.
2. Up to 5000 cues may be stored within a single show file on the controller. Users shall be able to save and load multiple show files within the controller memory.
3. Cues shall be able to be individually recorded and deleted.
4. Cues shall be editable via merging in or removing parameters and channels.
5. Multiple cues and other items shall also be deleted via the selection menu.
6. An Execute view with customisable grid sizes and storage for up to 60 cues shall be accessible via the controller external screen or remote application.
7. Cues stored on the Execute grid shall be activated and released via the external display or remote application and can also be linked together to work in a solo configuration.

Remote Control Protocols

1. It shall be possible to remotely activate and release the 10 scenes via connected ChamSys 10Scene wall plates (sold separately), wired into the controller.
2. It shall be possible to remotely activate and release scenes via connected external triggers, wired into the controller.
3. It shall be possible to remotely activate and release the 10 scenes by use of Midi notes.
4. It shall be possible to synchronise activation of cues via Midi timecode.
5. It shall be possible to remotely activate and release the ten playbacks by use of OSC.
6. It shall be possible to synchronise activation of cues in time to audio via Audio Input.
7. It shall be possible to remotely activate and release the 10 scenes by use of remote UDP.
8. Scenes stored on Playbacks and within the Execute window shall have the ability to be triggered automatically at scheduled times or days without further user interaction.

Hardware Connections

1. The rear of the unit shall provide access to all hardware connections, as listed below, aside from one USB connector, found on the face of the unit.
2. Power Input, Neutrik powerCON TRUE1 110 to 240 VAC
3. DMX512 outputs via 5-pin XLR connectors: 2
4. USB Type-A connectors: 2
5. Ethernet connector: 1
6. HDMI display output: 1
7. Wi-Fi antenna connection (antenna provided): 1
8. Midi ports: 2 (in and out)
9. 3.5mm audio jack: 2 (in and out)
10. 10Scene Connectors: 4

Physical Specifications

1. All operator controls and electronics shall be housed within a single rack mountable controller of a portable size and weight, as below. The unit shall be:
2. Equal to or less than 403mm (15.8 inches) wide (without ears).
3. Equal to or less than 195mm (7.7 inches) deep.
4. Equal to or less than 45mm (1.8 inches) high.
5. Weigh no more than 3.1kg (6.8 lb).
6. The controller shall contain an internal power unit with input via the powerCON connector. The power unit shall operate with 110-240VAC line voltage, 50 or 60Hz.

Included Accessories

1. Supplied with the controller shall be accessories, as listed below.
2. Neutrik powerCON TRUE1 Power Cable: 1
3. Wi-Fi antenna: 1
4. Rackmount Ears: 2
5. 10Scene Connectors: 4