Octagon Centre
Technical Information

March 2022 v1.2
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Venue lighting information

Lighting desk:
Avolites Arena

Dimmers:
Zero88 Spice Pro Rack - 48x 2.3kW 10a circuits

DMX routing:
Main auditorium stage level: 9 in + 8 out
Main auditorium ceiling: 16 out
Centre Truss: 8 out via Artnet

DMX Patch bay:
Chauvet NET-X II 8 way Art-Net
Lighting - Fixtures & Networking

**Generic**

- 24x Selecon Rama 1k Fresnel
- 8x Iris 1 Flood
- 4x UV Cannon

**Intelligent**

- 6x Chauvet Rogue R2 Spot
- 4x Chauvet Rogue R2X Spot
- 14x Chauvet Rogue R3 Spot
- 12x Chauvet Rogue R3 Wash
- 8x Prolights Diamond 19
- 16x Chauvet COLORado Tri-Tour
- 16x Chauvet COLORado SOLO 1

**Lighting Accessories**

- 1x Avolites Truss buffer
- 2x Chauvet Net-X II
- 1x Avolites DMX Buffer
- 2x Doughty Shadow Stands
Sound - PA & Monitors

Main PA:
4x L’Acoustics ARCS wide (2 per side)
4x L’Acoustics ARCS focus (2 per side)
8x L’Acoustics SB18 subs
2x L’Acoustics KS28 subs

Delays/fills:
7x L’Acoustics 12XT (flown delays including 1 per bleacher unit)
4x L’Acoustics X8 (front Fills)
4x L’Acoustics ARCS wide/focus (2 per side out fills)

Monitoring:
6x L’Acoustics X12

Amps:
6x L’Acoustics LA4X
1x L’Acoustics LA8
1x L’Acoustics LA12X

Mixing:
DiGiCo S31

Processing:
QSC Q-sys core 110f (for flown delays)

Hearing accessibility:
Sennhieser Infra-red loop system
6x Neck worn induction loop receivers 2x In-ear receivers
Additional Sound Equipment

Other Mixing desks:
Behringer X32

Other Speakers:
4x Nexo ID24
2x Nexo IDS110 subs

Other Amps:
1x Nexo NXAMP4x1

Microphones:
8x Shure SM58
8x Shure SM57
2x AKG D112
1x Shure Beta 91A
2x Shure Beta 58A
2x Neumann KM184
4x DPA 4099
4x DPA 4088
4x AKG C1000
2x AKG C414
3x AKG GN30
4x Sennheiser Speechline handheld
4x Sennheiser Speechline belt packs
2x Sennheiser Speechline Goosenecks

DI Boxes:
5x Radial JDI Passive
2x Radial J48 Stereo Active
2x Radial Dinet Dan-RX
2x Radial Dinet Dan-TX
4x Radial Catapult RX4M
4x Radial Catapult TX4M
1x Radial Catapult RX4L
1x Radial Catapult TX4L
Video

Installed display equipment:
1x Sharp 1080p Video Wall (Fixed to wall in the Bar Bay)
7x 4:3 Projector screens (Fixed to wall on all other bays)

Projectors:
5x Hitachi CP-X5500
1x Hitachi CP-WU840
1x Hitachi CP-X5022W

Distribution:
7x Extron HDMI over cat5 receivers
1x Extron HDMI over cat5 8 way transmitter (Installed)
6x Kramer Picotools HDMI over cat5 transmit and receive pair
1x Kramer Picotools VGA over cat5 transmit and receive pair
1x Kramer 8x8 HDMI Matrix
Power

Mains input floor level:
1x 125amp 3phase supply with 30mA RCD
3x 32amp 3phase supply with 30mA RCD
4x 16amp single phase

Installed power distribution:
1x 125amp 3phase supply distributed by Avolites power cube (in control room). Can be routed to any socket on the trusses as needed.

Temporary power distribution:
1x 125a to 6x32amp and 18x16 amp distro box
3x 32amp to 4x16amp distro box
16x 16amp to 12x13amp distro box
Rigging & Staging

Installed trusses:
5x 12m Prolyte H30v trusses, hung in bar bay, bay 1, bay 3 and two in bay 5
1x 10m Prolyte H52v truss, hung in Bay 5 down Stage
1x Octagonal Prolyte H52v truss, hung in the centre of the auditorium

(see plan)

Stageing
Width 32’ x Depth 12’ x Height 3’, 4’ or 18”
Width 24’ x Depth 12’ x Height 3’, 4’ or 18”
Width 32’ x Depth 16’ x Height 3’ or 4’
Width 32’ x Depth 24’ x Height 3’ or 4’
Hall configurations

Full Hall seated
Capacity: 1230

3/4 Hall seated
Capacity: 660
1/2 hall seated
Capacity: 470

Full Hall standing
Capacity: 1500
Links

Performance Venues home page:
http://performancevenues.group.shef.ac.uk/

Contact information

For technical enquiries:

Tomas Pavelka
Performance Venues Technician
Tel: 07955 008019
Email: t.f.pavelka@sheffield.ac.uk

Alex Hoey
Performance Venues Technician
Tel: 07986 848550
Email: a.c.hoey@sheffield.ac.uk

For operational enquiries:

Chris Leach
Performance Venues Operations Manager
Tel: 0114 222 0200
Email: chris.leach@sheffield.ac.uk

For general inquiries:

Performance Venues Main Office
Tel: 0114 222 8888
Email: performancevenues@sheffield.ac.uk