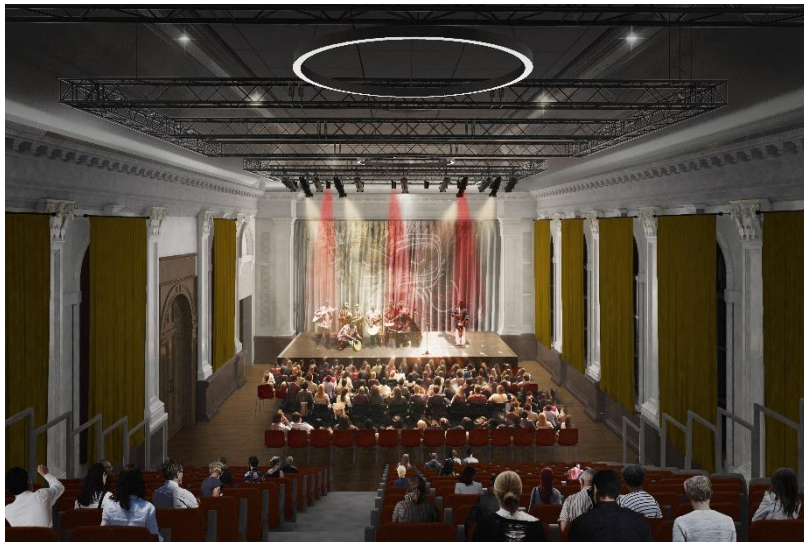




The Lantern

Preliminary Technical Specification

Updated: February 2023



Please note that these are preliminary specifications. We will not be able to confirm exact details until nearer to our reopening in Autumn 2023.

The exact makes and models of some of the equipment have not yet been selected, but where possible, we have provided an indication of the specification to expect.

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Expected Capacities

Please note these figures are gross capacity and do not allow for sightline, technical or house holds.

	Total	Flat Floor	Raked Seating
Seated (5m deep stage)	296	176	120
Seated (7m deep stage)	264	144	120
Standing	500	500	N/A

Wheelchair Positions

Flexible configurations to accommodate multiple wheelchair positions

Stage

The stage is a concert platform and therefore will not have a proscenium arch. The stage surface will be polished wood and therefore drilling, screwing or nailing items through the stage surface will not be permitted.

A black dance floor will also be available for events that need a dark surface.

Stage Dimensions

Depth (centre stage)	5m
Width	8m
Stage Height (from auditorium floor)	Adjustable from flat floor up to 1m
Height to canopy (from stage)	7m

Stage Extension

Extendable in 2x increments of 1m.

Mixer Position

Two mixer positions will be available depending on the auditorium configuration. For fully seated events the mixer position will be in control position at the rear of the raked seating bank. An alternative mixer position can be created for standing events in front of the retracted seating bank.

Pianos

- Yamaha C3

Rigging

In-house lighting will remain permanently hung on the overhead box truss. These fixtures cannot be removed for touring equipment, but allowance has been made for the hanging of banners, projection screens or other lightweight pieces of equipment.

Tabs & Drapes

Full-width upstage drape

4x legs (2m wide)

All black wool serge – No fullness

4x 2m drapes

Power

Stage Right

1x 32A/1 Ceeform

Stage Left

Lighting

1x 32A/3 Ceeform

Audio

Main PA

Flown Arrays

4x L-Acoustics A15i WIDE

2x L-Acoustics KS21

Front Fills

4x L-Acoustics X8

Delays

2x L-Acoustics X8

Ground Subs

4x L-Acoustics KS21

All amplification on appropriate amplifiers

Loose equipment

8 x QSC K12 monitors

Audio Consoles

FOH Mixing Console

1x Allen & Heath S5000 w/ Waves Card

FOH Stage Racks

2x Allen & Heath DX32 (24 in , 8 out)

Monitor Console

1x Allen & Heath C3500

Stage Racks

Either use FOH stage racks with DLive Multisurface control or:

1x DM48 (48 in, 24 out)

2x 32way analogue splits

Audio Distribution, Networking & Control

Allen & Heath DMO connected to consoles via GigaACE.

DANTE network connecting to Auvitrans controller for DANTE/AVB conversion to L-Acoustics amplifiers. Also used for audio distribution for recording, live streaming and show relay.

Microphones

Microphones and DI boxes are expected to be shared across all spaces, but we have provided an indication of a typical microphone package for the Lantern below. Please enquire if your microphone requirements differ.

2x AKG C451

2x AKG C414

1x Audix D6

2x Beyerdynamic M201

1x Shure Beta 52a

2x Shure SM57

5x Shure SM58

4x Sennheiser E604

1x Sennheiser E906

4x Sennheiser E935

1x Sennheiser MD421

8x BSS AR-133 DI Box

4x Radial Stereo DI Box

DJ Equipment

2x Pioneer CDJ-3000

1x DJ mixer Pioneer DJM-900NXS2

Communication

4x Wired Green Go Comms backpacks (single/double muff headsets available)

Up to 4x wireless Green Go available upon request

Lighting

Control

The venue's lighting infrastructure will consist of CAT6 cabling and networking control equipment supporting the sACN protocol. sACN to 5pin DMX nodes will be installed in the rack room (for patching throughout the venue) and on the overhead lighting trusses. 5pin DMX outlets will be available in all areas of the venue.

Dimming/Relay Power

ETC Colorsource ThruPower cabinets allow dimmer, relay or constant power to 72x 10a circuits. Each circuit will terminate as either a 6-channel Socapex or as a 16a ceeform connector.

Lighting Consoles

1x Chamsys Magic MQ70 with Wing

Lighting Fixtures

A comprehensive, professional package of automated LED lighting will be available, as expected for a world-class concert hall. The lighting provided will be a suitable overhead "festival rig" hung permanently from our house lighting trusses with a small allowance of fixtures to be used as a floor package.

12x Ayrton Diablo S

12x Robe 150 Beam

12x Elatation Fuze Par Z121P (Suitable for choir/orchestral events)

6x ETC Colorsource Spots

4x Chauvet STRIKE Array 2

Effects

1x Smoke Factory Tour Hazers

1x Antari AF3 fan

Audio Visual & Projection

HD-SDI, Cat 6 and fibreoptic runs are spread throughout the venue for the interconnection of cameras and video equipment. A robust NDI network will also be installed within the audio-visual network for the distribution of video over IP.

Audio visual equipment is shared between all spaces at Bristol Beacon.

1x Christie Digital DWU-630-GS 6k Projector

4x Bird Dog P200s

1x Bird Dog Controller

2x Panasonic GH5s

1x Blackmagic Atem Mini Pro

1x Blackmagic Atem Mini Pro Extreme

1x High spec PC (intel i9 10900x CPU, 32GB RAM, RTX 4000 Graphics Card, Blackmagic Design DeckLink Quad HDMI & 8K Pro, XAir Interface) running VMix Pro License

Backstage

Dressing rooms

There are 2 Dressing rooms allocated to the Lantern.

Room	Capacity	Notes
Dressing Room 6	3	Accessible WC and Shower
Dressing Room 7	5	Ensuite WC

Internet

Bristol Beacon has a 1GB ethernet connection throughout. This is carried on either WiFi on a dedicated network We can also link to ethernet points around the venue.

Unloading

Equipment may be unloaded at the Colston Street stage door level. Access to stage level is via a large goods lift 6m(l) x 3m(w) x 3m (h).