



# Technical & Production Information

# Lantern Hall

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[www.bristolbeacon.org](http://www.bristolbeacon.org)

# Technical and Production Information

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# 1 Introduction

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Run by Bristol Music Trust, and known as Bristol Beacon we were established in 2011 to run the South West's largest concert and music hall and promote musical excellence, creative learning and engagement. We announced our new name in September 2020. Bristol Beacon is a symbol of hope and community. A focal point for music and a place of welcome, warmth and light.

Our vision is to unite people through the joy of live music. We achieve this through a diverse programme of inspirational musical experiences, which offers something for everybody and encompasses music of all genres including classical, jazz, folk, world, rock, and pop, as well as local choirs, orchestras, and schools. As an organisation increasing in national importance, we have developed our creative learning and engagement work on an unparalleled scale. Our specialisms include working with underrepresented communities, including 2,500 young people with disabilities and in care. As the Music-Education-Hub for Bristol, we deliver the National-Plan-for-Music-Education to all children aged 4-18, inspiring 39,000 children in 150 schools, special schools, and youth groups every year. Our community led programme, in partnership with The National Foundation for Youth Music and Paul Hamlyn Foundation, works with children under five from low-income families, adults in social isolation/ with dementia, children in care/care leavers and community musicians.

In 2023 we opened our newly refurbished concert halls in central Bristol with a new Music Education Centre in the cellars. This is a completely new space dedicated to music teaching and incorporating a new performance space aimed at young people and emerging artists.

This document gives an overview of the technical facilities in our second venue, **Lantern Hall**.



## 2 Risk Management

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Bristol Beacon is committed to ensuring the health and safety of everyone involved in our activities. We prioritise safety throughout construction, event production, and maintenance phases. Our goal is to create a secure environment for staff, contractors, performers, and audiences.

### 2.1 Construction Design Management (CDM)

At Bristol Beacon, safety is paramount in all we do. Our CDM (Construction, Design, and Management) policy has been designed to ensure the well-being of all involved..

During the **Pre-Construction Phase**, we lay the foundation for safety by identifying who assumes the roles of Client, Principle Design & Principle Contractor, conducting risk assessments, and integrating health and safety into project plans and designs.

The **Construction Phase** encompasses the various activities that happen during the get-in and get-out. We adhere to stringent safety protocols for working at height, equipment handling, signage, and regular inspections. Upon arrival you will receive a health & safety briefing explaining how we categorise activities based on their risk levels, tailoring safety measures accordingly. You will see signage and receive instructions from our Duty Technician. Please respect their instructions.

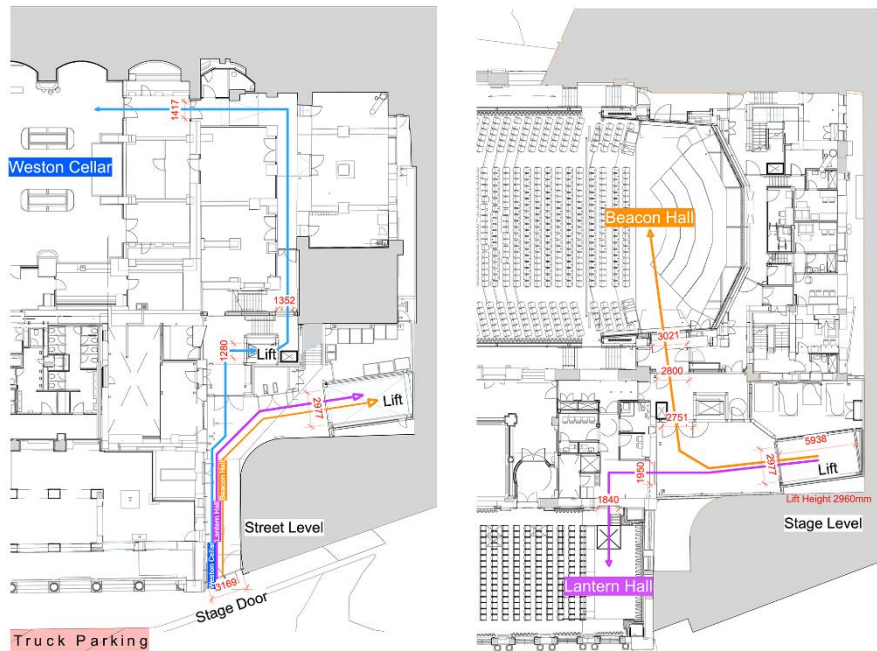
### 2.2 Risk Assessments and Method Statements

We expect clients and contractors working within our premises to have fully risk assessed their activities and have method statements in place. These will be requested in advance by our production team. Copies of our risk assessment are available upon request.



## 3 Venue Access

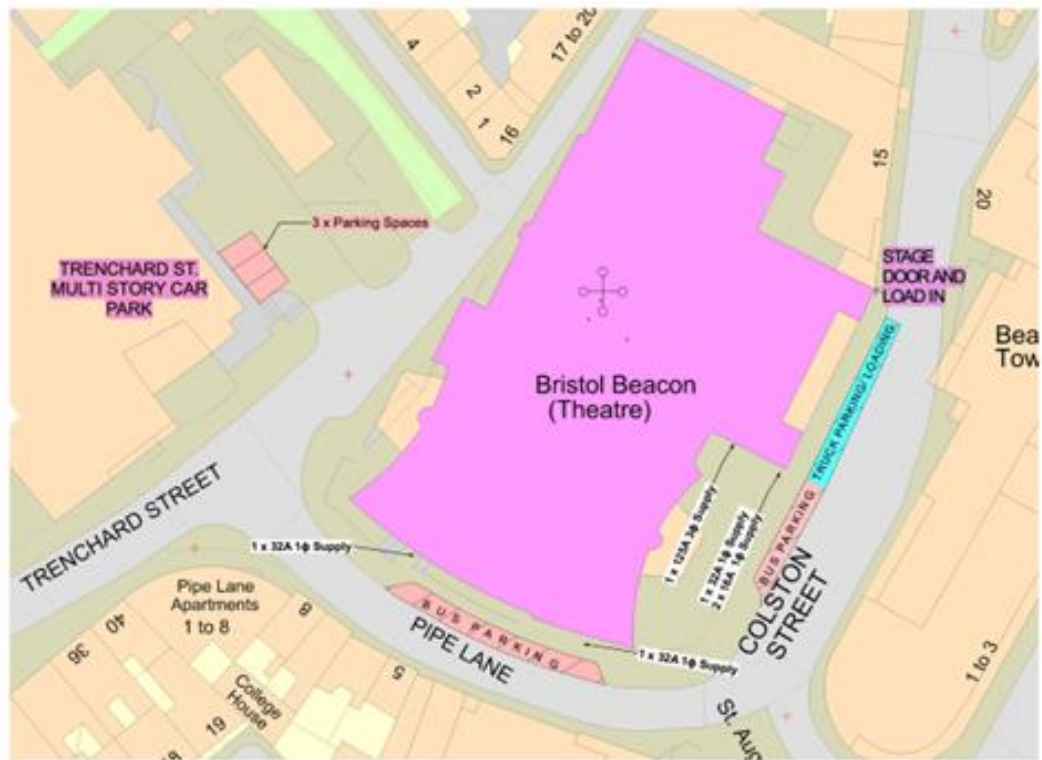
### 3.1 Get In Route



3-2 Get In Route

### 3.2 Parking

Please speak with your event coordinator to discuss available parking spaces for your event.



3-1 Site Overview

### 3.3 Equipment Lift

A large goods lift is available to carry equipment from the get in yard on Colston Street to the scene dock which is adjacent the stage. This goods lift and scene dock access is shared between our spaces. Under no circumstances are people permitted to travel in the goods lift.

Equipment Lift Details				
	Height	Width	Depth	Weight Capacity
Internal Lift Dimensions	2960mm	2977mm	5938mm	6000kg
Door Dimensions	2960mm	2977mm	-	-

### 3.4 Backstage Lift

A smaller lift is available for moving people and equipment between the Artist Entrance and the Lantern Hall.



Backstage Lift Details				
	Height	Width	Depth	Weight Capacity
Internal Lift Dimensions	2100mm	1100mm	1900mm	1000kg
Door Dimensions	2100mm	995mm	-	-

Please do not obstruct the doors to any lift. Should there be a need to hold open any automatic lift door, please speak to a member of staff to see if this can be actioned. Obstructing a door can lead to the lift malfunctioning which will cause delays for your show and others.

## 4 Venue Details

### 4.1 Auditorium Seating

Please note these figures are gross capacity and do not allow for sightline, technical or house holds. The capacity of a specific event can be confirmed by your event coordinator.

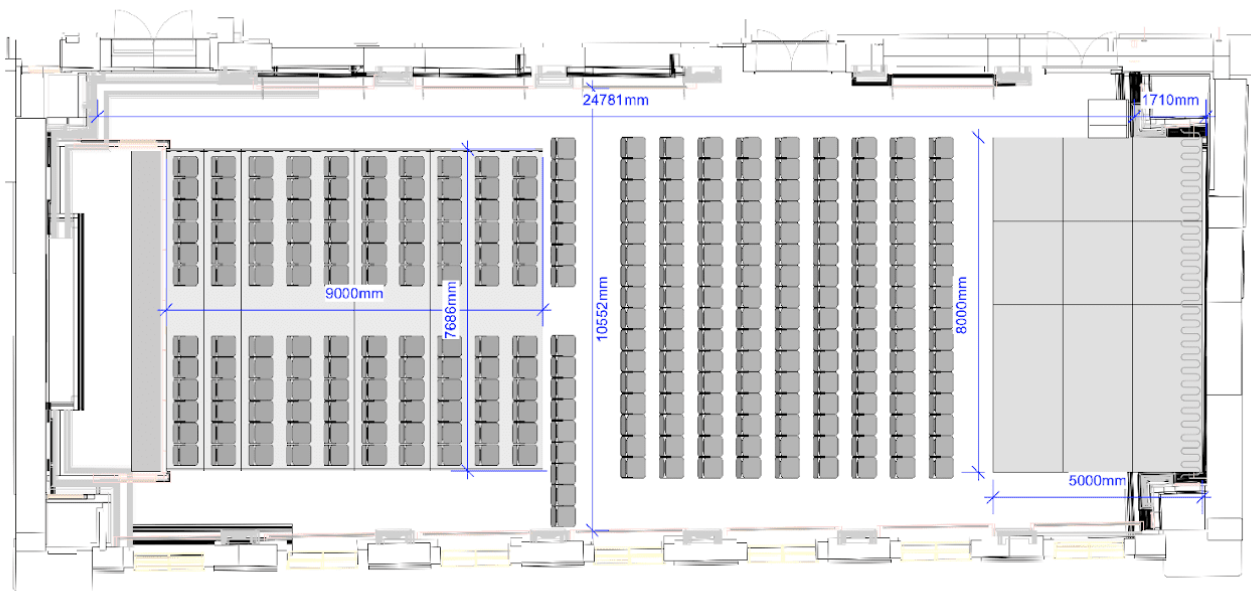
	Total	Flat Floor	Bleacher Seating
Seated <i>5m Deep Stage</i>	290	170	120
Standing	500	500	N/A

#### 4.1.1 Wheelchair User Positions

The space has flexible wheelchair user positions. For a seated event, audience seats can be rearranged or removed to accommodate. For a standing event, a raised platform is positioned at the rear of the hall. Please speak with your event coordinator to discuss this further.

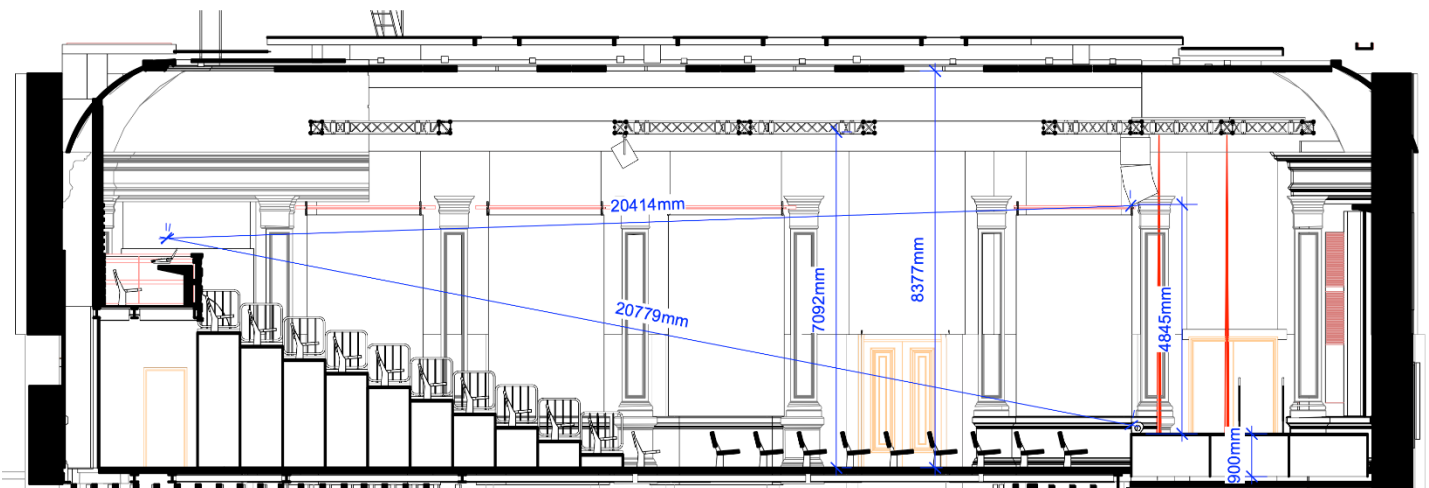
### 4.2 Lantern Hall Stage Dimensions

### 4.3 Plan Dimensions



Stage Dimensions				
	Depth	Width	Height	Notes
Standard Size	5000mm	8000mm	1000mm	
With 1m Extension	6000mm	8000mm	1000mm	Reduces capacity
With 2m Extension	7000mm	8000mm	1000mm	Reduces capacity

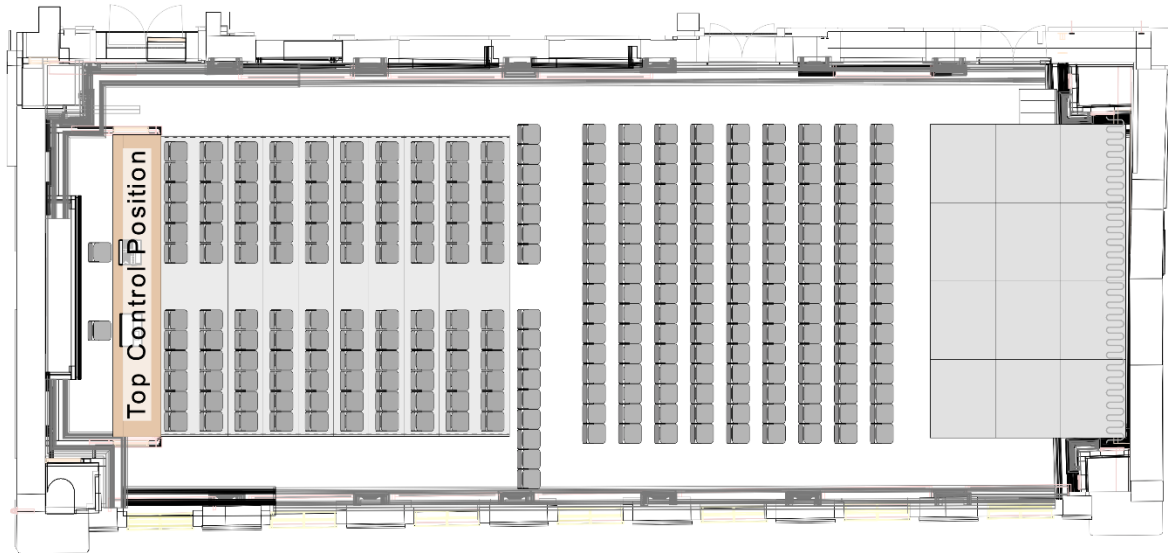
## 4.4 Section Dimensions



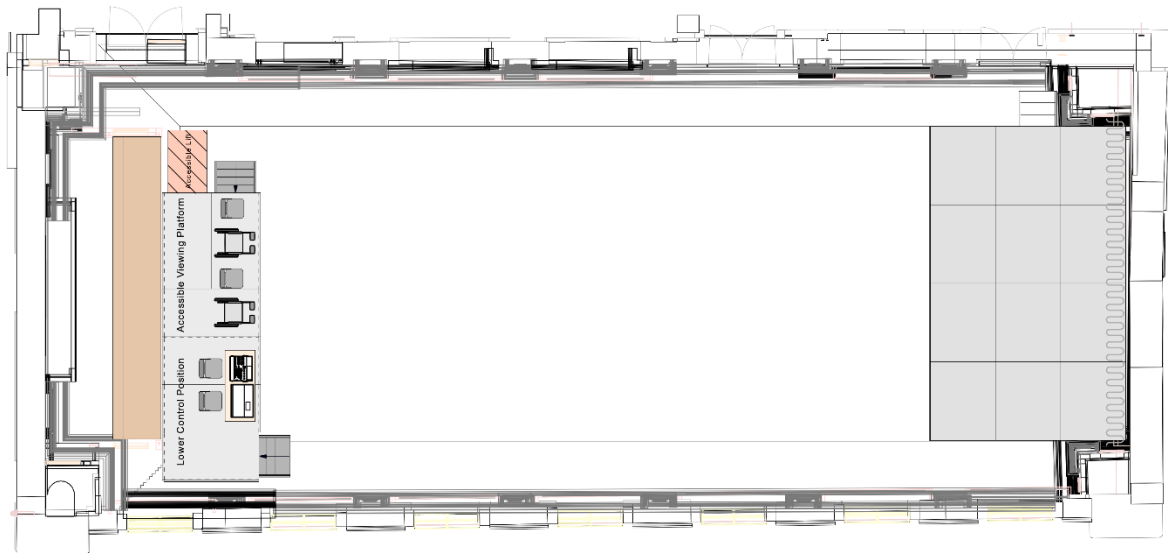
## 4.5 Control / Mixer Position

A choice of two mixer positions are available depending on the auditorium configuration.

For fully seated events the control position will be in the control gallery at the top of the bleacher seating. This can be accessed via a ladder or via the seating when extended. Note that there is no level access to this position.



An alternative control position can be placed at the bottom of the seating. This option is only available if the bleacher seating is not in use. The raised stage is also the accessible seating position for events where the room is laid out in a standing format.



4-3 Lantern Hall - Mix Positions

## **4.6 Temporary Cable Routes**

### **4.6.1 Control / Mixer position to Stage**

All cabling between stage and control position must utilise the in-house cable patch system to connect the stage, backstage and control positions.

For any additional cabling requirements, please speak with your event coordinator to see what can be achieved.

## **4.7 Pit Barrier**

It is possible to install mojo style pit barrier in Lantern Hall and can be installed at the discretion of the event organiser or the venue, depending on the type of show. Please contact your event coordinator to discuss the requirements.

### **4.7.1 Barrier Installation**

The installation and removal of the barrier must be undertaken by our third party contractor. Please enquire about the costs related to this.

## 5 Staging

### 5.1 Stage Surface

The stage surface is polished wood. Drilling, screwing or nailing items through the stage surface is not permitted. Any spiked instrument feet must have soft protection on them to avoid denting the floor.

A black dance floor is available on request for events that need a dark surface. Please contact your event coordinator for installation costs.

### 5.2 Stage Machinery

#### 1.1.1 Floor Loading

Static Load 4.4kN/m<sup>2</sup>

Point Load 3kN

Piano Lift Static Load 4.4kN/m<sup>2</sup>

Piano Lift Dynamic Load 1.5kN/m<sup>2</sup>

Piano Lift Point Load 3kN

### 5.3 Loose Risers

Additional loose decks are available. They have black tops and can be supplied with either 300mm, 600mm or 1m long legs. Wheels for rolling risers are also available upon request. Loose decking is shared with all spaces so please confirm your staging requirements with your event coordinator. Additional costs may be associated with hiring these stage items.

Loose Stage Decks			
Quantity	Make Model	Width	Depth
12	Prolyte Litedeck	2.4m	1.2m
10	Prolyte Stagedex	2m	1m



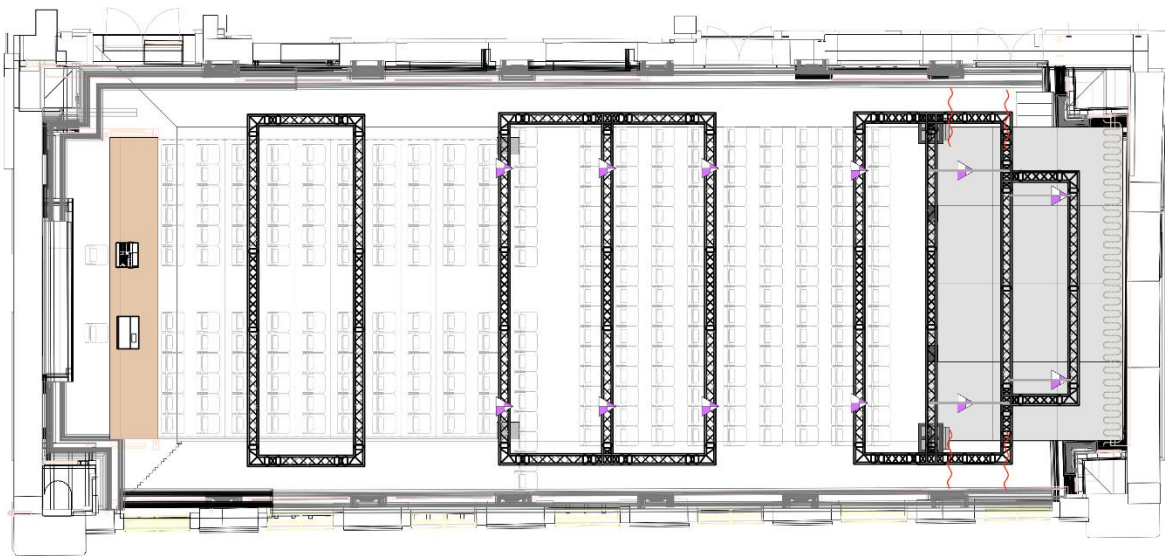
## 6 Rigging

In-house lighting is permanently hung on the overhead box trusses. 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.

### 6.1 Loose Rigging Equipment

Some rigging sundries are available on request should they be needed. Please contact your event coordinator to discuss any requirements you may have.

### 6.2 Overhead Rigging



*6-2 Over Stage Rigging Plan*

### 6.3 Tabs & Drapes

A full width upstage drape is permanently installed.

There are also 4 stage legs at 2m width to create wing spaces if required. The position of the legs are shown in the diagram above, shown as red lines.

## 7 Temporary Power Supplies

Power supplies for touring equipment are available in the stage area. Supplies have a separate earthing arrangement (i.e. clean earth).

Power Supplies		
Position	Quantity	Sockets
Stage Right	1	32A/3 Ceeform
Stage Left	1	32A/1 Ceeform
Stage Right Backstage	1	32A/1 Ceeform
Control Platform	1	32A/3 Ceeform

## 8 Lighting

### 8.1 Lighting Consoles

Lighting Control Console		
Quantity	Description	Notes
1	Chamsys Magic MQ70 with Fader Wing	

### 8.2 Data

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

### 8.3 Dimming/Relay Power

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

### 8.4 Lighting Fixtures

A comprehensive, professional package of automated LED lighting is available,

The overhead lighting system within the Lantern Hall has been carefully designed to serve as a high-quality system, suitable as the overhead rig for most shows. The fixtures cannot be moved or dismantled from the trusses.

There is also a small allowance of fixtures to be used as a floor package.

Lighting Equipment			
Area	Quantity	Description	Notes
Stage Truss	6	Ayrton Diablo S	
	12	Robe 150 Beam	
	12	Elation Fuze Par Z12IP	
	4	Chauvet Strike Array 2	
Room Truss	4	Robe 150 Beam	
	2	Ayrton Diablo S	

## 8.5 Lighting Plan

Please contact your event coordinator for the most up to date lighting plan.

## 8.6 Smoke and Fog Machines

1x Smoke Factory Tour Hazer

1x Antari AF3 fan

## 9 Sound

### 9.1 Main PA System

The Main PA system works to give a balanced coverage of >110 dB (A) SPL across the auditorium. An L-Acoustics Soundvision file of the system is available upon request.

Main PA System			
Area	Quantity	Description	Notes
Flown Arrays	4	L-Acoustics A15i WIDE	
	2	L-Acoustics KS21	
Floor Subs	4	L-Acoustics KS21	Shared across all venues on a first come, first serve basis.
Front Fills	4	L-Acoustics X8	
Delays	2	L-Acoustics X8	

### 9.2 Audio connection into PA

Connection to the PA is either via analogue XLR or Dante patch. This patch can be either at FOH control position or on stage.

### 9.3 Monitors

Stage Monitors		
Quantity	Description	Notes
8	QSC K12	

### 9.4 Audio Consoles & Stage Racks

Bristol Beacon uses Allen & Heath consoles throughout the complex. To aid with changing between different PA formats, control surfaces and mixing positions we have opted for a centralised DMO architecture. The consoles surfaces connect to the DMO over GigaACE and there is GX, DX and Dante IO within the DMO for connecting to stage boxes and PA system.

## 9.5 Mixing Consoles

Mixing Consoles		
Quantity	Description	Notes
1	Allen & Heath S5000	
1	Allen & Heath dLive C3500	

## 9.6 Mix / Stage Racks

Mix / Stage Racks				
	Quantity	Description	I / O	Notes
Stage Rack	2	Allen & Heath DX32	24 in, 8 out	

## 9.7 Monitor splits

Up to 64 ways of analogue splits is available upon request.

## 9.8 Cabled Microphones

A large selection of microphones are available and shared across all spaces at Bristol Beacon. We stock microphones from brands such as Shure, Sennheiser, Audix, AKG, Beyerdynamic, DPA and Electro-Voice.

Please advise us of your microphone requirements in advance.

## 9.9 Radio Microphones

The following radio microphones are shared across all venues at Bristol Beacon. Please contact your event coordinator if required for your event.

Radio Microphones		
Quantity	Description	Colour
8	Shure AD2 Beta 58A (Handheld)	Black
8	Shure AD 1 (Belt Pack)	Black
8	DPA 4088 (Headset)	6x Pink, 2x Black
8	DPA 4060 (Lapel)	Black

## 10 Video and Projection

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

Audio visual equipment is shared between all spaces at Bristol Beacon please enquire for availability.

### 10.1 Projection

A Christie Digital DWU-630-GS 6k Projector with 1.52-2.89:1 lens is installed on truss 2.

This can be used in combination with our 3.75 x 2.4m screen (16:10) screen hung on the upstage truss. Alternatively you can project onto the white upstage wall.

HD-SDI patch is available at the stage and control position for the projector source.

### 10.2 Cameras and Live Streaming

A basic selection of remotely controlled cameras and vision mixing equipment is available upon request. Please enquire to ensure the correct equipment is available.

Equipment includes:

Bird Dog PTZ Cameras

Digital SLRs

ATEM Vision Mixers

vMix Vision Mixer

## 11 Piano

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Pianos			
Manufacturer	Model	Year Manufactured	Notes
Yamaha	C3	2008	

Please enquire for charges related to using the piano for your event.



## 12 Communications

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4x wired Green Go comms and/or Tecpro beltpacks are available for use with a selection of single or double muff headset. Additional packs are available upon request.

## 13 Dressing rooms

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Lantern Hall Dressing Rooms			
Room	Capacity	Facilities	
Dressing Room 8	3	Adjacent to WC & Shower	
Dressing Room 9	5	WC	

## 14 Backstage

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### 14.1 Towels

Large towels and stage towels available with advance notice.

### 14.2 Laundry Facilities

Bristol Beacon does not have laundry facilities. Please enquire with your event coordinator for the nearest commercially available laundrette.

### 14.3 Internet

Bristol Beacon can offer High Speed Internet Access (HSIA) across the venue. This can be delivered over WiFi or wired connections. Please speak with your event coordinator should you have specific internet access, or network requirements.