



## **Technical Specifications June 2021**

For further details on any information contained in this specification, please contact:

Julian Cree (Head of Technical) - 01223 578905  
Email: [jcree@cambridgeartstheatre.com](mailto:jcree@cambridgeartstheatre.com)

Postal address: Cambridge Arts Theatre, 6 St. Edwards Passage,  
Cambridge CB2 3PJ

**Cambridge Arts Theatre**  
**TECHNICAL SPECIFICATION**  
**STAGE & MACHINERY**

The Stage is flat (no rake) and has a matt black MDF surface.

**Stage dimensions:**

Width of proscenium	7,800mm	(25' 7")
Height of proscenium	4,960mm	(16' 3¼")
Depth of stage to u/s of safety curtain	10,000mm	(32' 10")
Height of stage from auditorium floor	950mm	(3' 1")
Forestage/Pit Lift A front - from front of stage	1,420mm	(4' 7")
Forestage/Pit Lift B front - from front of stage	2,400mm	(7' 10½")
Forestage/Pit Lift A depth	1,420mm	(5' 0")
Forestage/Pit Lift B depth	980mm	(3' 2½")
Height to underside of grid	14,690mm	(48' 3½")
Height of Scene dock	3,070mm	(10' 1")
Width of scene dock door	2,880mm	(9' 5")
Diagonal of inner dock door	4,170mm	(13' 8")

**Flying system:**

46 single purchase counterweight bars.	(Max. spread load 500kg; max. point load 125kg)
2 single purchase counterweight up-and-down bars	(Max. load 500kg; max. point load 125kg)
Length of bars (12000mm total)	10,200mm (35' 6") + 900mm (3' 0") extensions
Max height of bars	14,000 mm (45' 11")
Min. height of bars	1,000 mm (3' 3")
Max point load from the grid:	1 ton per 3m

**Please note:** Bar 45 is the last usable upstage bar as bar 46 is a permanent storage bar.

**Front of house lighting bridges:**

Bridge 1 - distance from front of stage	2,800mm	(9' 2¼")
Bridge 2 - distance from front of stage	5,100mm	(16' 9")
Bridge 3 - distance from front of stage	10,300mm	(33' 9½")
Height of FOH bridges above stage level	7,500mm	(24' 7")
Circle front lighting bar - distance from front of stage	9,000mm	(29' 6¼")
Height of circle front bar above stage level	3,100mm	(10' 2")

**Temporary Power:**

Mid-stage Left:

200A TP&N 'Powerlock' connectors. *(N.B. - not compatible with Camlocks - adaptors required)*

2x 125A TP&N Ceeform

1x 63A TP&N Ceeform

2x 32A TP&N Ceeform

Scene Dock (clean earth for sound):

1x 63A SP&N Ceeform

1x 32A SP&N Ceeform

1x 16A SP&N Ceeform

Grid:

2x 32A TP&N Ceeform

**Cambridge Arts Theatre**  
**TECHNICAL SPECIFICATION**  
**STAGE DRAPERIES**

**Soft Masking**

- 1x border, black, 11.5m wide by 1.25m deep
- 6x borders, black, 11.5m wide by 3.0m deep
- 1x border, black, 11.5m wide, by 4.0m deep
- 6x pairs of legs (12 no. total), black, each 2.5m wide by 7.5m deep
- 2x pairs of legs (4 no. total), black, each 1.25m wide by 7.5m deep
- 1x pair of tabs (2 no. total), black, pleated, each 6.25m wide by 7.5m deep
- 1x blackout cloth, black, 11.5m wide by 7.5m deep
- 1x cyclorama cloth, off-white, 11.5m wide by 7.5m deep

**Hard Masking**

- 4 x hard masking flats with black wool serge cover, 1.22m wide by 5.5m high

**Seating**

- The front two rows of the auditorium (rows A and B) can be removed, in consultation with the staff here. There will be a cost for this. We will presume that the rows will be sold unless we are told otherwise by your company well in advance.

**TECHNICAL SPECIFICATION**  
**LIGHTING EQUIPMENT LIST**

The following lanterns are available for use by visiting companies (\* see note 1 \*):

**Fresnels:**

35x Strand CantataF (1.2kW)  
4x Strand AltoF (2kW)  
4x Selecon Arena Fresnel (2kW)

**PC:**

10x Cantata PC (1.2kW)

**Profiles:**

28x ETC Source4 bodies (750W)

FOH Bridge 3 12x Source 4 19° 750W (Not movable from bridges)

FOH Bridge 2 12x Source 4 26° 750W (Not movable from bridges)

**ETC Source 4 Lens Tubes:**

18 x 19°  
10 x 26°  
14 x 36°  
4 x 50°

**Par Cans:**

40x PAR64 with CP62 medium flood lamps (1kW) (Some CP60 & CP61 are kept in stock but not sufficient amounts for all units)

**Follow spots:**

2x Robert Juliat Foxie – 700W HMI

**Lighting Control:**

ETC GIO Main Console with ETC ION running tracking backup.

Output: Network / Dmx

ETC Sensor 3 Dimmers with ThruPower - 183 x 10A circuits, 15 x 25A circuits.

Circuit distribution plan available on request.

Please note that stage overhead circuits are via socapex sockets and not 15A.

**Notes:**

1. *Extra lanterns are available, for which a hire charge will be made. Please ask for details.*
2. *The 24 Source 4 (750W) listed on the bridges forms our permanent FOH rig (plan available on request).*

**Colour**

The Cambridge Arts Theatre carries a stock of Lee and Rosco Supergel filters from which a colour call may be prepared in advance at a cost of £50.00. Colour not in stock, other brands of colour filter or large quantities of filter can be supplied and will be charged for at cost in addition to the colour call charge.

**Cambridge Arts Theatre**  
**TECHNICAL SPECIFICATION**  
**SOUND EQUIPMENT LIST**

**Mixing desks:**

Main House desk:

Yamaha M7CL-48

48x Mono & 4x Stereo Inputs (physical)

24x Outputs (physical) configured as required

The M7CL is located in a permanent position in the Sound Control Room at the rear of the Circle and is not moveable.

The window of the Sound Control Room slides back for live sound mixing.

Moveable desk:

Yamaha O3D digital mixer. Dimensions (WxDxH) 460 x 516 x 210 mm

16x inputs (of which 8x mic inputs); 4x bus outputs; 4x aux send outputs; stereo main outputs.

The O3D is flight cased and can be moved;

**Playback, effects and processing equipment (situated in control room):**

2x Denon DN-C635 CD player

2x Sony MDS E11 Minidisc recorder

1x Tascam MD-801R MKII Minidisc recorder

2x Yamaha Q2031 dual 1/3-octave graphic eq.

1x Yamaha SPX1000 Multi-effect Processor

**Installed Loudspeaker Systems**

4x d&b V7P (2 units each side of the proscenium, one at stalls level one at circle level)

2x d&b E9 (permanent centre cluster, stalls and circle)

2x d&b C7 sub-bass units (1 each side)

5x d&b E3s (delay speakers underneath the circle)

4 x JBL Control 1 surround per level (stalls & circle)

**Portable effects/monitor loudspeakers & amplifiers:**

8x Electro-Voice SX200

4x JBL Control 1

**Tie lines:**

There are mic and line level tie lines to all areas of the stage, orchestra pit, band room, auditorium and foyers.

**Cambridge Arts Theatre**  
**TECHNICAL SPECIFICATION**  
**SOUND AND COMMUNICATIONS INFORMATION**

**Microphones:**

3x Sure SM58 vocal mics  
2x Sure SM57 instrument mics  
4x Beyer M88 hypercardioid vocal mics  
4x Beyer M201 hypercardioid instrument mics  
5x AKG CK91/SE300 cardioid condenser mics  
2x Audio Technica AT815b shotgun mics  
2x Beyer MCE86 Hypercardioid short-shotgun mics  
3x Crown PCC160 supercardioid boundary mics  
3x Shure SM91 Unidirectional mics  
4x Sennheiser E604 drum mics  
1x AKG D112 kick drum mic  
4x EMO passive DI boxes  
2x MTR passive DI boxes  
4x MTR active DI boxes  
2x BSS active DI boxes  
2x dbx active DI boxes  
5x adjustable boom stands  
4x adjustable straight stands  
4x short adjustable boom stands  
2x banquet stand

**Radio Microphones:**

14x Sennheiser SK500 G3 transmitters with receivers and DPA 4060/4061 mics  
2x Sennheiser SKM500 Hand held mics with EW500 G3 receivers

Our radio microphones are available for use, and a £75 per mic charge is levied.

The system uses either rechargeable AA batteries (in house) or alkaline batteries which must be provided by the visiting company.

The use of the radio mics must be pre-arranged with the Head of Technical prior to the Get-in.

**Radio mic licensing:**

We hold a site licence for the following frequencies:

Ch69, Ch38, Ch39, Ch40 – for touring equipment  
(not all frequencies available and are constrained by the Digital Switchover)

Ch40, Ch42 and Ch43 – Cambridge Arts Theatre Equipment

**Mixing positions:**

There is space in our sound control room or in prompt corner to site a small touring sound desk and associated equipment.

There is also a mixing position at the rear of the stalls, the use of which entails the removal of 12 seats. A charge of £240 or the cost of lost seat sales (whichever is the greater) is made for the use of the rear-stalls position (waived in the case of musicals).

**Communications:**

Our ring intercom system is standard 3-pin Altair Base Station at Prompt Desk with TechPro belt packs and headsets. Full show relay (audio and video) to all areas.

Prompt desk with calls located SL - 14x Q-light circuits (patchable), intercom and video relay.

**General:**

We have 6 dressing rooms and a band room. Three dressing rooms are large (up to 8 people) and three are small (2 to 3 people). The band room can be used as 2 dressing rooms if needs be (up to 8 people in each). All dressing rooms (except the band room) have showers and toilets; the band room has toilets only.

There is a wardrobe room with 2 washing machines, 2 tumble dryers, iron and ironing board.

There is also a visiting company office with outside phone line and internet.

**Parking:**

Please note that we do not have any on site parking facilities. There is a pay car park for cars only just around the corner from the theatre, but we have no facilities for vans, minibuses etc to be parked near to the theatre.

The nearest paid car park is at the [Grand Arcade](#) which is open 24/7. This car park is quite expensive.

The council runs 'park and ride' buses until 20:00.

There are a number of side streets where parking is free for the day, all of these are 15-20 mins walk from the theatre.

One of the best streets to use is [Adams Road](#), off Grange Road.

**Internet:**

Internet and WiFi connections are available backstage and on stage please ask a member of the Tech Dept for access password.