

# Haverhill Arts Centre – Technical Specification

This document aims to set out the specification of the Haverhill Arts Centre’s technical facilities in the auditorium to allow the smooth running of any shows, productions and hires. Any equipment listed in this document may, at any time, be either unavailable at our discretion, or subject to a charge. It is essential that any incoming show, production or hire makes contact directly with the technical department in good time before the event. Any requests or information submitted less than 6 weeks before an event may not be possible to accommodate.

Please talk to us in advance and we will do the best we can to make it easy.

## Contact Details

Technical Manager: Dylan Mills // [dylan.mills@haverhillartscentre.co.uk](mailto:dylan.mills@haverhillartscentre.co.uk)  
Technical Assistant:  
Box Office: 01440 714140  
Administration: 01440 710174  
Technical: 01440 718937 (monitored on show days only)  
Postal Address: Haverhill Arts Centre, Haverhill Town Hall, High Street, Haverhill, Suffolk, CB9 8AR  
Load in access: Helions Walk, CB9 8DN, Coordinates for Satellite Navigation are 52.080513, 0.440378

## Stage Specifications

### Stage Size

Stage dimensions including wings, excluding apron	11.85m across, 6.15m up stage wall to tabs
Apron dimensions (down stage of house tabs)	6.85m across, 1.10m tab line to edge
Usual performance space, tabs open, using the apron	6.85m across, 6.75m cyc to edge of apron
Usual performance space behind tabs	6.85m across, 5.65m cyc to tab line
Maximum height on stage	4.5m (there is a fixed metal purling across the stage, up stage, other than this other heights are possible)
Maximum flying bar height	7.5m
Normal bar flying height	5.5m to 6m
Crossover behind cyc	0.5m
Wings floor space	2.5m
Wings usable space	2m

A diagram of the stage is available in appendix A.

### Flying

All flying must be carried out and supervised by in house technicians. All the bars (hemp or winch) are loaded and in use at all times.

7 x manual hand winch sets, winched from stage left. SWL 200kg per bar

5 x hemp sets, tied stage left, SWL 100kg per bar

Motorised opening and closing front of house track, with large blue drapes. Fixed height and speed. Controlled from stage manager corner, lighting control and projection room.

Truss in a rectangle shape front of house attached at a fixed height to the building. SWL of 10kg by each socket.

1 x cinema screen winch, driven by drill.

On the hems and winch sets:

2 x black borders on flying hemp sets

1 x tab track, pulled from stage left configured tabs only

1 x tab track, pulled from stage left, can be configured as swipe or tabs, usually tabs forming our upstage blacks

1 x spare tab track, configured as swipe only used for cyc or back cloth

1 x sash line up stage centre. This may only be used for raising light prop items for effect, it is not load bearing.  
5 x IWB lighting bars on winch  
2 x TRS lighting bars on hemp

## **Drapes**

1 x blue Front of House curtains, full width of the theatre, opening as above.  
1 x proscenium border black  
2 x black borders (down stage and up stage)  
2 x pairs of legs. Down stage is on a flown hemp bar, up stage is fixed to the purling.  
1 x full black tabs  
1 x set of black star cloths  
1 x white cyclorama

## **Power**

All power connections must be carried out and supervised by in house technicians.  
We have no 3 phase power outlets in the building. We carry no cables above 16 amps or any adapter or jumpers.

### **Sound power**

Blue/Live 3 power supply (cleanest phase for sound) – all located up stage left:  
1 x 63 amp single phase commando ceeform outlet  
2 x 32 amp single phase commando ceeform outlet  
4 x 16 amp commando ceeform outlet  
1 x twin 13 amp outlet

### **Lighting power**

2 x 32 amp commando ceeform outlet on the stage right wall  
Our lighting is hard-wired into a supply and runs through dimmers to 15a outlets. These can be set to non-dim but not to hard power.  
Each of the 8 lighting bars has a dedicated 16 amp ceeform outlet and DMX attached on the stage right end of the bar.  
FOH high level stage right there are 4 a 16 amp ceeform outlets cabled to the positions for our moving lights FOH.

### **Other power**

Red/Live 1 power supply  
12 twin x 13 amp sockets on a 32a ring main around the stage

## **Auditorium**

154 seats in rows of 14, raked seating, isles each side.  
4 rows of 14 seats on the flat floor.  
Maximum raked seating layout is 210  
The most typical set up is 168 raked seats, with a gap of 2.5 metres between the front row and the stage

With the seating away, there is a capacity of 280 guests standing, or 120 at tables and chairs.  
The addition of tables and chairs to an empty room impacts on the number of guests permitted in the room.

## **Stage Management and Comms**

8 x Tecpro single muff headsets and belt packs  
Comms headsets available on the tech balcony, on stage and near the front of the auditorium  
Stage managers table has a paging mic to back stage and foyer for show calls and announcements.

## **Backstage**

## Dressing rooms

There are two dressing rooms each with eight mirrored tables with individual lighting, hand basin, shower and WC. Each dressing room has a paging system with local volume control and a relay screen.

Additional rooms may be available subject to other bookings. These rooms may have a paging system, but not mirrors, hand basin, shower or WC.

## Laundry

We have one washing machine located in the lower dressing room. Visiting companies are welcome to use this within reason, supplying their own washing powder.

## Accessibility

### Hearing Systems

We have an infrared hearing assistance system fitted in the auditorium which is available for all events staffed by technicians.

### Wheelchair access

Due to the construction and age of the building, all backstage areas involve steps.

The stage is 6 steps above the auditorium surface. The upper dressing room is 8 steps above the stage, the lower dressing room 8 steps below. The lower dressing room is 4 steps below load in height. The auditorium is accessible via the lift and the rear door without steps.

## Lighting Specification

### Standard Lighting Rig

This is the usual set up which is rigged. Colour may vary due to show requirements or personal preferences.

DMX channel	Colour and job
1, 3, 5	Forestage FOH cover in L152
2, 4, 6	US FOH cover in L152
17, 21, 23	DS FOH cover in L152
16, 18, 22	FOH cold wash
9, 13	FOH blue wash
8, 12	FOH red wash
11	FOH green wash
7	FOH amber wash
10, 15, 19, 20, 24, 14	FOH profiles for specials
31, 35	Red stage cans wash
32, 36	Green stage cans wash
33, 37	Amber stage cans wash
34, 38	Blue stage cans wash
60, 61, 65, 68	Stage blue wash from fresnels, in 4 sections
41	Back blue
59, 62	Stage amber from fresnels in 2 sections
40	Back amber
58, 63	Stage red wash from fresnels in 2 sections
39	Back red
57	DS breakup gobo
42	US breakup gobo
49, 50, 66, 67	Stage wash in L152 from fresnels in 4 sections
69 – 72	Rear open white cans fan

25, 26, 27, 28, 29, 30	Profiles and fresnels for specials on stage
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A full DMX list and general lighting rig plot are available from the info hub at [haverhillartscentre.co.uk/info-hub](http://haverhillartscentre.co.uk/info-hub).

## Lantern Stock

### Fresnels

12	CCT Starlette Fresnels with barn doors
3	Strand Cantata F 1000W with barn doors
9	Strand Quartet F Fresnels 650w with barn doors
2	Selecon Acclaim Fresnel 650w with barn doors

### Profiles

5	CCT Silhouette turbo 28/58 profiles 1000w
11	Strand Prelude 16/30 Profiles 650w
10	Strand Cantata 18-32 Profiles 1000w medium throw
2	Strand Cantata Profiles 1000w short throw

### Floods

4	Strand Nocturne 1 1000w floods
4	4 x Strand Coda 500/4 Floods (Flood Battens)

### Parcans

26	1000w par 64s with CP62 lamps
4	Showtec 500w Floor Par Cans

### LED battens

8	LEDJ LED 1m battens Spectra Bank 8
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### LED pars

12	Prolight 7Q5 par cans
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### Intelligent lighting

6	Martin Mac 250+ moving profile lights
4	Martin Mac 250 moving profile lights
2	Martin Mac 300 wash lights
8	Equinox Fusion 260ZR

### Follow Spot

2	Teatro Follow spot, 250W MSD lamp, with iris and colour magazine
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We have a selection of gobos (size B) and holders in stock, and some irises.

Any equipment listed in this document may, at any time, be either unavailable at our discretion, or subject to a charge. Additional equipment can be hired in at additional costs.

## IWBs and Lighting Outlets

### Front of house

Lighting is rigged on a rectangular truss.

6 circuits	FOH 2 (furthest from stage)	Obstructed in parts by building structure
12 circuits	FOH 1 (nearest the stage)	Due to the angle, will not fire more than half way up stage
3 circuits	Stage right	Fires side on to the stage
3 circuits	Stage left	Fires side on to the stage

All front of house lighting is in Yellow/Live 2

#### Flown on Stage

12 circuits	LX 1	Usually Red/Live 1
10 circuits	LX 2	Usually Red/Live 1
12 circuits	LX 3	Usually Blue/Live 3
10 circuits	LX 4	Usually Blue/Live 3
6 circuits	LX 5, on hemp with TRS	Usually Blue/Live 3
12 circuits	LX 6	Usually Blue/Live 3
4 circuits	LX 7, on hemp with TRS	Usually Red/Live 1

#### Stage floor

Channel 43	Down stage left and down stage right, 2 outlets of each channel at each
Channel 44	
Channel 45	
Channel 46	Up stage left and up stage right, 2 outlets of each channel at each
Channel 47	
Channel 48	

### Dimming and Control

There are 72 ways of 2.4kw dimming available from 3 x Strand LD90 dimmers controlled by a Zero88 OrbXF.

### House Lighting

The auditorium is fitted with GDS LED House lights throughout. Preset levels are recalled from push buttons located by the stage manager, auditorium entrance, technical balcony and projection room. Each house light unit is individually addressable via DMX on a separate universe to the stage lighting.

### Effects

- 2 x Martin JemZR25 smoke machine
- 1 x Le Maitre Minimist smoke machine
- 1 x Le Maitre MVS Hazer
- 1 x Chauvet Hazer
- 2 x LED RGB Star cloths as up stage blacks
- 2 x Chauvet P7 Geysers
- 1 x 1ft mirror ball with motor

There may be a charge for the use of fluid in these machines.

### Cabling

We carry a good stock of 15a cabling for lighting and a selection of grelcos. We have a stock of 16a cable and a section of 16a to 13a adapters.

### Stands

- 6 tank trap bases with 3m uprights, and up to 10 twisted boom arms.
- 4 heavy duty floor stands for floor mounting lights
- 2 T stands

## Sound Specification

### Front of House System

Martin Audio 3 way professional system consisting of:

- 2 x Martin Audio W8VDQ for left and right, flown each side of the stage

2 x Martin Audio SX218 for left and right, positioned on the stage each side  
1 x Martin Audio W8VDQ for cinema centre sound, positioned behind the screen when in use  
4 x Martin Audio DD6 fills positioned on the front of the stage as needed

Driven by 8 ways of Powersoft M50Q and 2 ways of MA5.2K amps.

To prevent any misuse the use of any of our sound equipment is under the control and responsibility of our technicians. Any equipment listed in this document may, at any time, be either unavailable at our discretion, or subject to a charge.

## **Cinema Surround Sound**

12 x RCF M801 speakers, driven by 8 ways of RCF IPS700 amps.

## **Monitoring**

6 x Martin Audio LE100  
2 x Martin Audio LE200  
2 x Martin Audio DD6 (for band pit monitors etc)  
Driven by 8 ways of Powersoft M50Q

## **Sound Desks**

Yamaha M7CL48 permanent front of house desk  
Allen & Heath MixWizard W3 16:2  
Allen & Heath GL2200 32 channel  
Soundcraft Spirit SX12

## **Outboard and Playback**

1 x Mac Pro with QLab (no licence)  
2 x Sony CD player  
1 x Mini disc player  
1 x BSS 31 band stereo graphic (on front of house)  
1 x Yamaha SPX990  
1 x Lexicon MX200  
Various other outboard may be available.

## **Microphones and DIs**

8 x SM58  
8 x SM57  
3 x SM57 beta  
2 x Sennheiser kick drum mic  
3 x Sennheiser e609 clip on tom mics  
2 x Audio Technica condenser mics for drum overhead  
1 x Audio Technica condenser mic for drum high hat  
2 x Sennheiser E614 drum overhead  
2 x Audio Technica ATM33a  
2 x BSS DI  
2 x EMO passive DI  
1 x EMO stereo passive DI  
2 x Stageline passive DI

Additional microphones may be hired in at additional cost.

## **Mic Stands**

We have a good selection of mic stands including:

- 8 x tall boom stands
- 8 x short boom stands
- 4 x heavy weight tall boom stands

## Stageboxes and Cabling

- 1 x 8 send multicore with box, on long cable down stage right
- 1 x 8 send multicore with XLR ends, through small hole upstage centre (drums)
- 1 x 16 send 4 return multicore with box, on short cable downstage left

We carry a good selection of XLR cable in lengths between 1m and 10m.

35m of multicore is needed to comfortably get from the stage to the balcony mix position.

## Radio Systems

We have the following radio mic systems in the building:

- 6 x Sennheiser G3 ew300 receivers
- 4 x Sennheiser G3 ew300 hand held mics with SKM300 835 heads
- 6 x Sennheiser G3 belt packs
- 4 x Sennheiser G2 ew100 receiver
- 4 x Sennheiser G2 ew100 hand held mics
- 4 x Sennheiser G2 ew100 belt packs
- Selection of ME2 lapel heads and head worn mics.

24 way antenna distribution system with amplifier and external antenna.

We have the following licences for radio mic equipment with in the Town Hall Arts Centre building:

Frequency	Band width	Max power	Location
614.500MHz	200k	10mW	CB9 8AR
616.000MHz	200k	10mW	CB9 8AR
618.600MHz	200k	10mW	CB9 8AR
620.300MHz	200k	10mW	CB9 8AR

We are licenced to use channel 38, 606.500MHz to 613.500MHz at 10mW power.

Use of our radio equipment is subject to a charge.

## Cinema and AV Equipment

### Stage AV

Panasonic PT-D3500E projector with standard lens and long throw lens. Can be used from projection room, or flown on stage.

VGA over Cat5e system with links down stage left, down stage right, near sound desk and projection room. Cat5e link along LX1.

We can project on to the white cyc up stage, from a projector flown from LX1, or we can project on to the cinema screen which is on the most down stage bar just behind blue FOH tabs and fills the full size of the proscenium opening.

### Digital Cinema

3m x 6m white perlux perforated cinema screen

1 x Barco DP2K12C Cinema projector

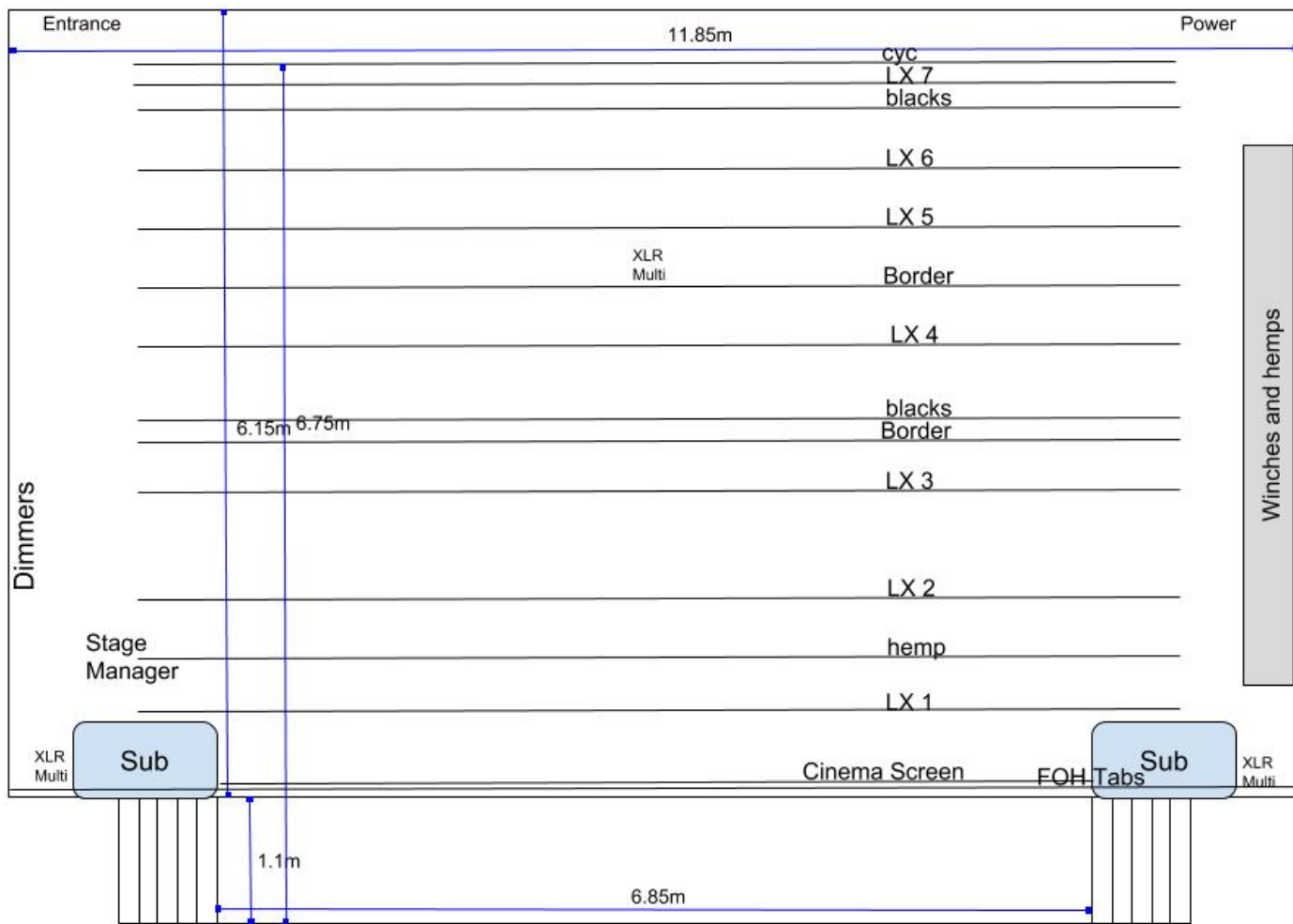
1 x Dolby DSS220 Playback server with IMB  
1 x Dolby CP750 Cinema Sound Processor  
1 x ChristieACT controller  
1 x BlueRay DVD player  
1 x FreeSat receiver  
1 x LANSat receiver/server

### **35 mm Cinema**

Century MSC-TW projector  
Dolby CP45 sound processor



# Appendix A - Stage Layout and measurements



These measurements should be taken as a guide only. If any measurements are critical for the production the measurements should be checked in person.