

Chelmsford Theatre Technical Specification

Chelmsford Theatre seats an audience of 502, including five wheelchair accessible spaces. The Theatre boasts a wide and varied programme to appeal to all ages and tastes. Available to hire for a variety of events – from musicals to dance showcases and live music to award ceremonies.

Our in-house technical team are here to help you and will provide a bespoke plan for your event. They will work with you prior to, and during your event to maximise the use of equipment, audience engagement/enjoyment and ensuring the best outcome for your production.

This information is subject to change and should be used as a reference point, prior to discussions with the Technical Department. Please contact us if you have any questions. All equipment is subject to availability, additional charges may apply, please see the equipment recharge sheet on the website.

Paul Richard
Technical & Buildings Manager
paul.richard@chelmsford.gov.uk
01245 606506

Chelmsford Theatre
Fairfield Road
Chelmsford
Essex
CM1 1JG

Reece Crisp
Deputy Technical Manager
reece.crisp@chelmsford.gov.uk
01245 606718

Jenny Urquhart
Senior Technician
jenny.urquhart@chelmsford.gov.uk

Duty Manager – 07739 929481



Building Access and Get-In Arrangements:

The site is accessible from Fairfield Road, via a security barrier. Access is provided for unloading/loading only. Vehicles must exit using the Coval Lane barrier unless they are over 15 tonnes, in which case they must turn around and exit via Fairfield Road. Special conditions apply for [articulated vehicles](#).

- Workshop Doors, 2.5m x 3.6m, step height is 0.62m, ideal for articulated lorry trailer height
- Scene Dock Doors, 1.67m x 4.7m, with slight ramp
- Vehicles parked on the cross hatched area must not obstruct disabled parking or fire exit
- Stage Door is for general access outside of unloading/loading period
- Technical staff will need to supervise reversing of any large vehicles
- A ramp can be provided for the purpose of unloading/loading
- A door code will be given to you by the Duty Stage Technician for backstage access

Dressing Rooms and Backstage Facilities:

- Dressing Room One is located off stage right, accessed by a few steps can accommodate 2 persons
- Dressing Rooms Two and Three under the stage, accessed by stairs from Stage Door, stage right or offstage left. Each room accommodates 15 persons
- There is a large green room under the stage with a kitchen area including sink, fridge, microwave, and stage video relay
- Shower and toilet facilities are available from all dressing rooms
- All backstage areas receive audio show relay and calls
- Only the stage level is fully accessible for wheelchairs, please discuss any specific requirements in advance with the Technical Manager

Orchestra Pit:

- 2 sections of hydraulic lift that can create a full or half pit
- The lifts can also be raised to stage level for loading only, not to be used as a thrust
- 15 lit music stands are available on request, including 1 x conductors stand

Please contact to discuss use of the pit and the associated loss of seats before tickets go on sale.

Stage Dimensions:

Performing area to setting line	11.1m x 7m (WxD)
False proscenium opening	11.1m x 4.4m (WxH)
Building proscenium opening	11.98m x 4.4m (WxH)
Forestage depth	2m
Wings widths	SR *3.6m / SL *1.8m
Height to grid	10m

- The stage surface is non-raked black plywood
- Prompt desk is located Stage Right
- * Wing width not available full depth of wing. See stage plan for more detail
- A fitted harlequin reversible pro dance floor in black and grey is available on request. This must be booked in advance
- 6 pieces of 8ft x 4ft steel deck are available and come with standard 1ft or 2ft high legs
- Adjacent to the Stage Right wing is the Scene Dock, approx. 7.5m (L) x 4.8m (W) x 6.9m (H)
- The Workshop is next to the Scene Dock and may be used for storage by prior arrangement
- The theatre is fitted with ample suitable black masking. A full list of soft goods is available

Flying:

- Other than the house tabs (which are operated DSR at stage level) all bars are flown from the SL fly floor and will require a fly person during a show
- 21 x Double purchase counterweight fly bars 250kg SWL
- 4 x On stage electric winch bars; LX1, 2 & 3, 320kg SWL. LX 4, 400kg SWL
- 1 x 12m FOH advance truss 120kg p/m UDL
- For details, please see stage plan and fly plot

Access Equipment and Working at Height:

- Haulotte Star 10 MEWP – users must be IPAF trained and complete a brief safety induction. The MEWP can reach the advance truss from the stage only when pit props are in
- 11 rung Tallescope – Site specific Normal Operating Procedures must be followed.
- 8, 10 and 12 rung Zarges Skymaster ladders
- 2 x Fibreglass extension ladders (used to access FOH Perch positions)
- A selection of commercial quality step ladders

Visitors are allowed to work at height under the supervision and at the discretion of the Duty Stage Technician. Theatre Risk Assessments and Normal Operating Procedures are available on request.

Lighting:

- Lighting is usually operated from the control box positioned behind the rear of the stalls towards auditorium left.
- Lighting can be operated from the sound position in the auditorium, but space is limited so please enquire in advance.
- A production desk can be placed in the centre of the auditorium to accommodate the lighting desk for rehearsals on prior arrangement.

Control

- ETC Ion XE lighting desk with 40 fader wing and 2 touch screens
- ETC remote app on iPad

Dimming and Universes

3 x ETC Sensor Dimmer racks providing:

- 182 x 15A dimmer circuits
- 9 x 25A dimmer circuits
- 12 x 15A switch circuits
- 8 x house light circuits

The lighting desk has 4 universes and any number of DMX tie lines from around the theatre can be set up when using alternative lighting desks

Power and Distro

The following is available in prompt corner DSR. Total power 125A three Phase:

1 x 125A three phase (load shared with other circuits)
--

1 x 63A three phase

1 x 32A three phase

3 x 63A single phase (one on each phase)
--

3 x 16A single phase (one on each phase)
--

6 x 13A sockets (phase 1) (suitable for sound)
--

6 x 13A sockets (phase 2)

3 x 15A switched independent sockets (phase 2)
--

3 x 15A switched independent sockets (phase 3)
--

Hard power is run to all standard lighting positions as 13A, 16A, or powercon. There is an additional 32A single phase DSL on phase 1 for sound.

Lantern Stock

The venue operates with a standard LX rig. This is designed to provide full stage 3 colour wash from overhead and FOH plus open white, and several specials. Your lighting requirements will be arranged in advance or on the day on provision of a detailed venue specific lighting plan.

ADVANCE BAR

24 circuits

3 x Chauvet Ovation 915 Fresnels (LED)
--

12 x CCT Starlette Fresnels (1.2kw)

8 x Source 4 15/30 Zoom profiles (750w)

2 x Clay Paky Axcor 400 Profile* (LED)
--

2 x Clay Paky Mini B Wash* (LED)

No 1 PERCH

7 circuits (each side)

4 x pairs of CP62 Parcans (1kw)

1 x CCT Starlette PC as tab warmers (1.2kw)

1 x Source 4 15/30 Zoom profile (750w)
--

1 x pair of Chauvet Ovation P56 (LED)

No 2 PERCH

3 circuits (each side)

2 x Chauvet Ovation 15/30 Zoom profiles (LED)

1 x Clay Paky Axcor 400 Profile* (LED)
--

No 3 PERCH

3 circuits (each side)

3 x Source 4 15/30 Zoom profiles (750w)

STAGE

3 x 18 way pre-wired bars on electric winches 1-3

48 circuits for 8 x 6 circuit booms on stage
--

FOLLOWSPOTS

2 x Robert Juliat Super Korrigan* (1.2kw HMI)

- * Equipment recharges may apply
- Please note the follow spot position is above the balcony and does not allow the spots reach extreme upstage or into the auditorium.
- A single spot can cover most of the stage but when 2 spots are used, they may need to cross on centre to cover the far SL and SR areas.
- Our operators are familiar with these restrictions and can operate accordingly.

Assorted 15A cable, 16A cable, 13A cable, 3 and 5 pin DMX, gregcos, socapex extensions and spiders, bars of 6 IWBs, and some power adapters are available for use as required.

FX

2 x Martin Magnum Pro2000 fog machines
--

1 x Le Maître MVS hazer

2 x Medium Mirrorballs

1 x Large Mirrorball

2 x UV cannon

1 x Chauvet Geyser vertical smoke machine

1 x Look Solutions Power-Tiny handheld battery smoke machine
--

This equipment is available for use as required

6 x Source 4 25/50 Zoom profiles (750w)
6 x Source 4 15/30 Zoom profiles (750w)
16 x Source 4 36-degree profiles (Source 4WRD II)
13 x Strand Cantata Fresnels (1.2kw)
12 x Strand Cantata PCs (1.2kw)
17 x Strand Patt 743 (1kw)
9 x CCT Starlette Fresnels (1kw)
9 x Chauvet Ovation 915 Fresnel (LED)
8 x Chauvet Ovation CYC (LED)
60 x Par 64 fitted with CP62 as standard (some CP61 and CP60 available on request)
10 x Par 64 (silver) floor can (CP62)
6 x Chauvet Quad Hex Par (LED)
8 x Chauvet Ovation P56 (LED)
8 x Chauvet Quad 12 Batten (LED)
10 x Clay Paky Mini B Wash* (LED)
4 x Clay Paky Axcor 400 Spot* (LED)

*Charges may apply.

Sound:

- All sound power is on phase 1
- Our permanent sound position is at the rear of the stalls towards auditorium left. It has a desk 2.2m x 1m and 13A sockets

Any other FOH operating position requires the removal of saleable seats and must be requested before your show goes on sale.

Control

1 x Yamaha CL5
1 x Yamaha QL1
1 x Q-Sys Core Nano system processor

Speakers

Main LR	2 x EM Acoustics R10
Delay LR	2 x EM Acoustics R8
Subs	4 x EM Acoustics S-18
Centre	2 x EM Acoustics R8
Pit Front Fills	8 x EM Acoustics EMS-41
Under Balcony Delays	4 x EM Acoustics EMS-61
Stage Monitors	6 x EM Acoustics M-C12 4 x Flown EM Acoustics EMS-81 4 x KV2 EX10 (shared with Studio)

Patch panels for control/Dante network, NL4 and XLR are located on the amp gallery USR.

The Q-Sys Nano is patched via analogue or Dante.

Playback

QLAB 5 sound and video on a Mac Studio or MacBook Pro. This outputs via Dante Virtual soundcard.

Radio Microphones

- 16 x Shure Axient Beltpacks
- 4 x Shure Axient Beta 58 Handhelds
- 8 x Sennheiser ew500 G3 belt pack radio mics
- 4 x Sennheiser ew500 G3 handheld radio mics

Please note there are 16 x Shure receivers and 8 x Sennheiser receivers which limits the total amount of microphones that can be used at one time.

Wired Microphones

- 6 x Sennheiser e945 vocal mic
- 1 x Sennheiser e825 switched vocal mic
- 1 x Sennheiser XS 1 switched vocal mic
- 13 x Shure SM58 vocal mic
- 5 x Shure SM57 instrument mic
- 8 x DPA 4099 instrument mics c/w various attachments and clamps
- 2 x Sennheiser e906 instrument mic
- 4 x Sennheiser Evolution 604 tom mics
- 1 x AKG D112 kick mic
- 1 x Audix D6 kick mic
- 1 x Shure Beta 91A kick mic
- 4 x DPA 2017 shotgun mics
- 6 x Sennheiser ME66 K6 shotgun mics
- 3 x AKG CHM99 hanging choir mics
- 9 x AKG PCC160 PZM tap mics
- 8 x SE Electronics SE8 pencil condensers
- 2 x Audio Technica AT2050 large diaphragm mics
- 12 x BSS AR-133 active DI boxes
- 4 x Klark Teknik DN200 V2 stereo active DI boxes
- 2 x Klark Teknik DI 20P passive DI boxes

Assorted microphone stands, music stands, multicores and stage boxes, mic and speaker cables are available.

Pianos

We have a Yamaha UX1 which can be booked in advance, tuning is recharged. We can also hire a grand piano, the hire cost will be recharged.

Audio Visual:

- We can supply a Mac Studio or MacBook Pro with Qlab, PowerPoint, and Keynote for both audio and visual outputs
- We can transfer data or build show files for you in advance as an extra service

Projectors

- 1 x Christie D20WU-HS 18500 lumen, flown as needed
- 1 x Christie D13WU-HS 12500 lumen, mounted under the balcony
- Lenses available: 0.38:1, 0.84-1.02:1, 1.2-1.5:1, 1.5-2.0:1, 4.0-7.2:1

SDI inputs to the projectors are available throughout the venue. HDMI – SDI adapters are available.

Projection screens

- We have two sizes of fast fold screen available which can be flown or free standing.
- 3.6m x 2m, 12' x 6.6' front projection only.
- 4.27m x 2.4m, 14' x 7'10" front and rear projection surfaces available.

Communications:

The prompt desk is situated DSR and has both comms and cue light facilities as well as backstage and FOH calls. Prompt corner also has a show relay speaker and video feed of the stage. There are 8 cue lights available.

Comms are available around the theatre using the following:

- Punqtum 4 channel base station (LX box)
- Punqtum 4 channel base station (prompt corner)
- Punqtum 2 channel wired belt packs
- 5 x Riedel Bolero wireless comms

Accessible Performances:

- A Sennheiser MobileConnect system is installed in the theatre. It can be used for show relay enhanced listening and audio description when available
- Devices which are compatible with 3.5mm minijack input or are available at box office or users can use their own devices.
- Captioning services are available on request
- There is a designated signing position that is provided with its own lighting. It is in front of the pros arch auditorium left
- The platform is demountable and only in place for signed performances. This restricts access to the steps to the stage

We aim to make your time at the venue as enjoyable as possible.

Let's work together to put on a great production.

Many thanks, Chelmsford Theatre Technical Dept.