

Technical Specification

LIGHTING

Grid

- ★ A double hexagon (inner and outer) grid in the Octagon.
- ★ A rectangular grid in the Rectangle!
- ★ Goal post truss to the down stage side of the proscenium arch.
- ★ Vertical truss at the end of each balcony with 3 boom arms on each side – *not shown on schematic.*

Lighting Desk

- ★ Chamsys Quick Q 30 Further details [here](#).

House Lights

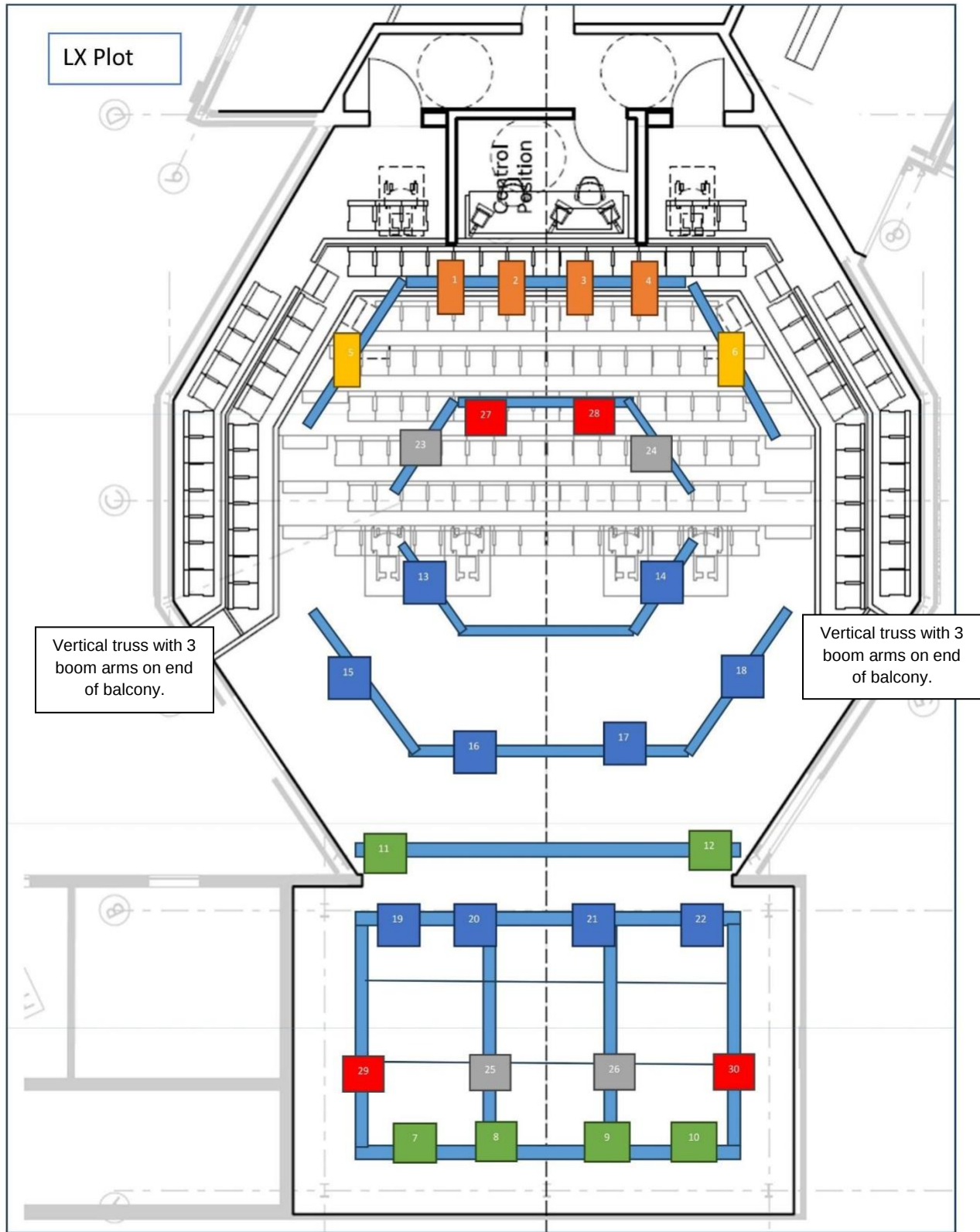
- ★ Overhead working lights in the Octagon and the Rectangle linked to wall switches.
- ★ Remote controlled RGBW lighting in Octagon including uplighting of wooden roof space.
- ★ 8 Chauvet silent Ovation H55 WW directed at the main bank of seating, supplemented with dimmable spotlights directed at the balcony seating area.

The DMX house lighting system is controllable by wall panels in tech desk and stage left (SL) in the Rectangle (moveable to SR if required).

Performance Lights

These will be positioned across the lighting grid at optimal positions for typical use. Lights can be repositioned by the Hirer's technical team, with prior authorisation from CWT.

NOTE: All lights must be returned to their original position at the end of the hire period.



Fixture number	Make/model	Group Name	Key
1 - 4	Chauvet Ovation E-910FC	FOH 1 Profile Wash	
5, 6	Chauvet Ovation E-2 FC	FOH Profile Special	
7 - 12	Chauvet Ovation P-56FC	Stage Par Wash / Tab Warmer	
13 - 22	Chauvet Ovation F-915FC	FOH 2 Fresnel Wash / Stage Fresnel Wash	
23 – 26	Chauvet Rogue R3X Wash	Moving Wash Light	
27 - 30	Chauvet Maverick Force S Profile	Moving Profile	

LED Ellipsoidal (also known as Zoom Profile)

- ★ 6 x Chauvet Ovation E-910FC with 4 x 25-50 zoom lens and 4 x 15-30 zoom lenses [Lenses are interchangeable; 4 lanterns shown on hanging plot] - Manual zoom and focus.
- ★ 4 x Ovation E-2 FC with 25 – 50 zoom lenses [2 lanterns shown on hanging plot].
- ★ 3 x fixed 50 degree ETC Source 4 retro fitted with RGBA LED.

LED Fresnel

- ★ 10 x Chauvet Ovation F-915FC - Fresnel Wash Light with motorised 17 - 85 zoom Beam shaping barn doors available.

LED Par

- ★ 6 x Chauvet P-56FC - An LED PAR with medium and wide lenses.

Flood/Cyc

- ★ 4 x Ovation CYC 1 FC.

Use of the Above Static Lights - General

The majority of the above lights have a consistent colour palette and use the Chauvet RGBAL LED range. Most fixtures have a DMX channel that allows selection of a standard range of 31 colours.

Moving Lights

- ★ 4 x Chauvet Maverick Force S- Profile.
- ★ 4 x Chauvet Rogue R3X Wash Light.

Incandescent Lights

We also have a small range of dimmable incandescent lights within the overall lighting system. These include:

- ★ 2 x 50 degree Source 4 junior with 575W HPL lamps.
- ★ 10 x Source 4 Par with very narrow, narrow, medium and wide lenses (6 have beam shaping barn doors).
- ★ A small number of 650W and 1K fresnels.

All lanterns have gel frames and the fresnels have beam shaping barn doors. CWT has a wide range of gels that can be loaned to users.

Visual Effects

You will be required to inform CWT of any planned visual effects and any additional equipment you will be bringing. Hirers must follow recognised industry best practice and ensure all the relevant risk assessments have been completed and are in place to ensure all effects are created safely and in accordance with our policies.

Haze and Smoke Machines

- ★ 2x small water-based fog machines with a compartment for wet ice that can help keep fog low.
- ★ 2x larger haze machine primarily used to support aerial lighting effects.

Other visual effects

- ★ 2 x DMX triggered discharge strobe units are available.

NOTE: All visual and smoke effects must be agreed in advance.

SOUND

Sound Desk

- ★ SQ-6 48 channel/36 bus digital mixer.

Stage Boxes

- ★ 3 x Allen & Heath DX168 I/O Expander Stage Boxes connected via a digital signal cable and an Allen & Heath DX Hub.

This will allow 48 input channels into the mixer plus analogue sources directly into the rear of the desk.

Public Address System

The Main PA consists of:

- ★ Flown Vegas 12 passive speakers supplemented with Vegas 24 speakers as fill in.
- ★ Compact flown Sub.
- ★ Duacneli Class D power amplifiers.

Please note that the sound system is designed for reinforcement of voice and backing musicians during theatrical performances. Bands requiring high volume music and very strong bass lines normally associated with large floor mounted subwoofers may wish to consider their own system.

Radio Microphones

Body Pack Type

- ★ 8 (+ 1 spare) x Sennheiser EW-D transmitters and receivers with grid mounted amplified antenna.
- ★ 8 x (+2 spares) Line 6 XD-V55 transmitters and receivers with grid mounted amplified antenna.
(AA batteries required)

The two systems operate on entirely different frequencies and are fully compatible. However, please note that the Line-6 system operates on the 2.4GHz frequency band and compatibility with wireless guitar transmitters should be verified in advance.

- ★ 4 x Sennheiser UHF body pack transmitters and receivers.
- ★ 2 x Sennheiser VHF body pack transmitters.
(9V batteries required)

All radio microphone transmitters come with a tan or beige omnidirectional microphone (Lavalier) [Generic not Sennheiser branded]. We also have a number of over ear headsets available for use and some black ME2 omni directional lavaliers for the Sennheiser EW-D range. Wind shields are available upon request.

NOTE: Damaged lavaliers will be charged for at list price.

Handheld radio microphones

- ★ 4 x EW-D SKM-S handheld transmitters- *These work on the same system and will be used instead of 4 body pack transmitters as noted above.*
- ★ 4 x Lekato 5.8GHz transmitter / receivers - *These are compatible with the above Line 6 transmitters. Compatibility with wireless guitar transmitters should be verified in advance.*

Batteries and Tape

One set of batteries for each transmitter will be provided free of charge for technical rehearsal.

CWT will supply AA batteries at £5.00 per sealed box of 10 and will normally have sufficient stock for a full show week but Hirers are asked to confirm battery requirements in advance.

CWT recommends and will hold reasonable stocks of 3M transpore tape available at (£1.50) per roll.

Other considerations for radio mic use.

CWT cannot give absolute guarantees about compatibility if using a mixture of CWT and other radio microphone equipment and any Hirer looking for 18 or more radio mics will need to bring their own system or hire an external system.

Wired Microphones

- ★ 6 x Shure SM58 vocal mics.
- ★ 2 x PZM microphones.
- ★ 3 x Shure Beta 57 Instrument mics.
- ★ A small range of economy microphones (mostly SM58 clones) for non-critical uses.
- ★ 4 x Audio Technica PRO45 condenser cardioid hanging microphone for reinforcement of choirs etc.
- ★ 6 x boom vocal microphone stands.
- ★ 3 x straight vocal microphone stands.
- ★ 4 x Tiger low level floor boom microphone stands for instruments.

Sound set up for Musicians

CWT holds a limited range of band lights and music stands- *please check in advance*.

- ★ 4 DI boxes (2 active, 2 passive (one two channel) and 1 rack mountable 4 channel passive DI box.
- ★ Adequate 13-amp extension cords etc. for an 8-piece band.
- ★ A range of XLR and jack cables to connect to the main sound system.

We do not stock mics for brass instruments or drum kits nor isolation booths for acoustic instruments. We have a small range of music stands, stand lights, amps and speakers (for use as monitors).

A link to provide a video feed from the conductor to screens visible on stage is under development. The conductor locations included will be the upstage right location and the ground floor dressing room ('The Roses').

Comms System

The theatre is equipped with a two-channel comms system. This consists of:

Wireless

- ★ 1 x Dual Channel Transmitter / Receivers.
- ★ 1 x Single Channel Transmitter / Receivers.

Wired

- ★ 3 x wired belt pack transmitter / receiver units (dual channel).

These consist of belt packs and cables and can be connected at a series of designated points.

Auditorium Plug Points

- ★ 3 x tech box.
- ★ 5 x under the balcony.
- ★ 1 x upstairs lobby.

Back of House Plug Points

- ★ 5 within the Rectangle (including 1 at the designated stage manager position).
- ★ 1 x upstairs Green Room.
- ★ 2 x '*The Castles*' (1st floor dressing room).
- ★ 1 x back of house electrical room.
- ★ 1 x '*The Roses*' (ground floor dressing room).
- ★ 1 x ground floor corridor.
- ★ 1 x just outside auditorium entrance way.

Each plug point has two channels, each socket will be labelled as Channel A or Channel B.

Hirers must ensure the headsets are cleaned at the end of the hire, or Hirers are welcome to bring their own headsets. The CWT wired comms belt packs are compatible with both standard 4 pin XLR connectors and mini XLR connectors. CWT will provide a range of cable lengths for the wired base stations.

Video Relay

All dressing rooms back of house are equipped with a video relay system as is the tech box.

Audio Relay and Paging

- ★ 2 x (identical) gooseneck microphone paging units - located in the Rectangle (Stage Left) and the tech box. Each permits paging of any / all of zones 1 – 8:

Zone 1 – Green Room.

Zone 2 – Office & back of house electrical room.

Zone 3 – 1st Floor dressing Room ('*The Castles*').

Zone 4 – Ground floor accessible dressing room ('*The Lock*').

Zone 5 – Ground floor corridor and toilets.

Zone 6 – Ground floor dressing Room ('*The Roses*').

Zone 7 – Over stage.

Zone 8 – Front of house.

Zone 8A – Corridor wings.

Zone 8B – Centre section of corridor.

Zone 8C – Upstairs lobby.

Each zone (but not the pub area) will also receive an audio show relay.

NOTE: All equipment must be returned back to its original position in the same condition that it was collected at the start of the hire.

Hirers are asked to report any damage to equipment as soon as it happens and if anything is not working immediately.