



Tower Theatre

Technical Specification v3.1 Apr19

Lighting

Lighting Desk

ETC Eos Ti (4096 channels, Universes 1 & 2 via 5XLR). Software current at July 2018

Dimmers

72x ETC SmartPack installation channels (36x dimmer/hard power switchable, 36x dimmer/hard power/relay switchable)

Hard-wired to installed IWBs and wall sockets on mezzanine (no hard patching available)

2x 4-way ETC SmartModule racks (portable racks – can be positioned around the space)

DMX

Universes 1 & 2 on 5XLR outputs on desk

Universe 1 – via splitters to installed dimmers and 12x DMX outlets around the rig

Universe 2 – locally to House Lights dimmer

Outlets

Dimmers to 15A sockets on IWBs and 2x panels on mezzanine (see separate plan)

Tech Rings A – C: 16A outlets at 32A per ring on IWBs (see separate plan)

DMX Universe 1 to 12x outlets on IWBs (see separate plan)

Various 13A outlets

Lanterns (rigged)

LED

6x ETC Source4 Lustr+ StudioHD

6x ETC Source4 Series 2 Lustr CE (silver body)

(all Source4s set to 'HSIC' giving colour picker control along with Hue, Saturation, Intensity, Colour Temperature and Strobe)

Source4 lenses: 12x 50°, 4x 36°

Classic

9x Strand Patt 23 Mk2 profile spot (500W)

10x Strand Patt 123 Fresnel spot (500W)

10x CCT Minuette Fresnel spot (500W)

6x Strand Patt 223 (1kW)

4x CCT Sil30 (1kW) (a few shutters missing)

7x PAR64 (mainly CP62 medium beam)

The number of tungsten fixtures may change due to maintenance and acquisitions – please check

Lanterns (stored)

A selection of Patt 23s, 123s, Sil30s, Mole 2050 Fresnels, Coda floods, Strand T-spots, Minims and an assortment of vintage lanterns is available from our basement store. These are PAT inspected and all work, but are in varying condition

House lights

5x Strand Patt 137 flood (150w) – Desk channel: **513** (Universe 2)

Roof lights

2x Mini LED PAR (Desk channel: **201**)

2x Beamz Lucid 1.2 LED wash (Desk channel: **200**)

Blues

Blue LED Birdies are positioned around the edge of the space. These are controlled by a switch by the door to the Dressing Room. Individual units can be unplugged as necessary

Misc

Small selection of scaff stubs and clamps
Small selection of longer ali tubes
Small selection of twisted boom arms
6x Tank traps
Small selection of DMX cable
Substantial selection of 15A TRS
15A Grelcos
Short 16A – 16A and PowerCon–PowerCon extension cables
16A Y-cords
4-way 13A extension leads
Selection of cut colour

Fixture addresses and channels

<i>Lantern</i>	<i>Desk Channel</i>	<i>Address</i>
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LED Profile

Source4	101	100-104
Source4	102	120-124
Source4	103	130-134
Source4	104	140-144
Source4	105	150-154
Source4	106	160-164
Source4	107	170-174
Source4	108	180-184
Source4	109	190-194
Source4	110	200-204
Source4	111	210-214
Source4	112	220-224

LED Roof cover

Wash	200	300
MiniPAR	201	305

MD Video Relay

Components for a 2-screen, low latency Musical Director/Conductor video relay comprising:
Video camera with hook clamp fitting
2x Composite Video to VGA convertors
2x 22" LCD monitors with VESA scaff tube fittings
(requires long BNC or VGA cables between camera and convertors or convertors and screens)

Sound

Sound desk

Soundcraft Delta 10-2-2 (custom configuration with 8x mic inputs)
- L & R outputs via multicore to amps on mezzanine feeding FoH L & R speakers
- Groups 1 & 2 via multicore to amps on mezzanine feeding Rear Stage speakers
- Aux 1, 2, 3 & 4 via multicore to connection panel on mezzanine
- Aux 5 & 6 to amp under control desk feeding Rear Auditorium speakers

Playback

QLab system with licence (multi-channel via audio interface)
2 x CD player
Mini-disc player
Graphic Eq. (not connected)

Power

RCD protected 13a sockets in all areas. There is no dedicated sound ring although the amp rack and the control desk sound equipment have dedicated feeds

Speakers

FoH – 2x Mordant Short 2-way

Rear Stage – 2x JBL 3-way

Rear Auditorium – 2x EV Stage 200

Selection of small FX speakers

Spare Quad stereo amp with input and output connectors on amp rack.

Multicore

Multi 1-8 from mezzanine to desk mic inputs 1-8

Multi 9-32 not allocated

Multi returns normalised to the sound desk main, group and aux outputs as detailed above

Wired Comms

2x RTS belt packs, headsets and PSU (N.B. these are not compatible with Tecpro systems)

Radio Comms

6x Kenwood TK3160 UHF 2-way radio sets with G-shape earpieces or lightweight headsets on UK Simple Lite licence. Shared with FoH team

Tannoy

Audio show relay to SM Room and Dressing Room 1

Video Relay

Stage camera feed to monitors in SM Room and Dressing Room 1

Misc

Small selection of 3XLR mic cables

Small selection of various XLR/Speakon TRS speaker cables