

## LETCWORTH GARDEN CITY

### TECHNICAL SPECIFICATION

#### General

##### Get-In

Loading Bay 300mm above road level via ramp, with sectional up & over door 2.79m wide x 3.7m high.

Internal dims 15m long x 3.6m wide x 4.1m high, plus further storage area approx. 6.4m long x 4m wide x 2.9m high (access to electrical panels & AH condensers must be maintained).

Paging/show relay loudspeaker plus ring intercom & data outlet.

Internal unloading/loading possible subject to size of vehicle.

3000kg goods/passenger lift from loading dock to mezzanine & stage, internal dims 3.48 long x 1.85m wide x 2.45m high, doors 1.6m wide x 2.3m high.

##### Backstage Accommodation (Ground Floor Mezzanine Level – 1 Floor above Loading Bay)

Green Room with paging/show relay loudspeaker, plus video, ring intercom & data outlets.

Accessible shower/WHB/WC.

Laundry Room.

Mezzanine Level served by goods/passenger lift and staircase.

##### Backstage Accommodation (Stage Level – 2 Floors above Loading Bay)

1 x dressing room for <8 persons, with en-suite shower/WHBs/WCs, paging/show relay loudspeaker, plus video & data outlets.

1 x dressing room for <6 persons, with en-suite shower/WHBs/WCs, paging/show relay loudspeaker, plus video & data outlets.

Additional accessible shower/WHB/WC.

Stage Level served by goods/passenger lift and staircase.

Dressing Rooms & WCs accessed via rear onstage cross-over corridor.

#### Broadway1

##### Stage

Proscenium opening:	11.9m wide x 5m high (to pelmet)
Depth (cross-over wall) from back of proscenium:	5.2m
Depth of forestage:	3m max
Stage centre line to stage right wall (Includes SR Wing Space):	8.5m
Stage centre line to stage left wall (Includes Wing Space):	9.4m max/7.7m min
Height to underside of 5 onstage vertical RSJ's	
Supporting Grid;	5.8m (downstage)/4.5m (upstage)
Height to underside of 2 outer additional onstage vertical RSJ's supporting Grid (on line of prosc)	5.5m (downstage)/4.2m (upstage)
2 x Dip Traps running up/down stage SL/SR between prosc and crossover wall.	7m either side of Centre

##### Stage Floor

Black Painted wooden stage floor 900mm above auditorium  
Loading: 5kN/m<sup>2</sup> (distributed), 3.6kN (point load - over 300mm<sup>2</sup>)

Letchworth Garden City Broadway Cinema 1/Theatre  
02/02/17

## LETCHWORTH GARDEN CITY

### TECHNICAL SPECIFICATION

#### Control Room & Technical Galleries

Control room rear auditorium with removable shutters.  
Rear auditorium technical gallery SL & SR, within auditorium.

#### Stage Suspensions

Motorised draw house tabs with open/close/stop controls DSR & in control room  
Roll up 3D cinema projection screen – Permanently hung 1.27m upstage of proscenium, rigged 5m high (Not for Theatre Use).  
4 x lighting/suspension bars on motorised hoists operated from SL, each 11m long SWL 250kg uniformly distributed along the bar. Bars 750mm, 1.95m, 3.15m, & 4.35m upstage of proscenium.  
2 x fixed bars hung with borders. Bars 2.47m & 3.67m upstage of proscenium.  
2 x walk along leg tracks for side masking legs each side of stage. Tracks 2.6m & 3.8m upstage of proscenium. Fitted with 1.2m wide pull along legs.  
2 x sets walk along overlap tab tracks. Tracks 4.92m & 5.12m upstage of proscenium wall. Currently on tab track hung with pull close tabs  
Permissible additional point load per RSJ: 1 x 150kg load only at any point on the steel.

#### Cyclorama

Up-stage cross-over wall painted white.

#### Masking & Drapes

2 x Pairs of demountable book flats covered in black wool serge, each 1.5m wide x 5m high.  
2 x Pairs black wool serge legs, approx. 1.2m wide x 4.8m drop (mid stage) / 4.5m drop (upstage), on walk along leg tracks referred to above.  
1 x Pair black wool serge tabs, approx. 4.4m drop, tied to US tracks referred to above.  
2 x 1m deep borders, tied to the fixed bars referred to above.

#### Loose Stage Machinery Equipment & High Level Access

24	Cast iron 12.5kg stage weights.
6	2m max adjustable stage braces.
6	3m max adjustable stage braces.
4	25kN 18mm sewn slings 400mm circumference.
4	25kN 18mm sewn slings 600mm circumference.
	<u>Access</u>
1	Tallescope Model 9812. Max height 5.6m
1	3 part Skymaster Zarges 3x9; 2.70=>4.70=>6.70m.

## LETCHWORTH GARDEN CITY

### TECHNICAL SPECIFICATION

#### Production Lighting

Fixed FOH lighting bridge recessed into ceiling void (in two 3m sections, 0.5m either side of Centre), accessible from above. SWL 120kg evenly distributed along each bar

Hinged FOH lighting ladder each side of auditorium, at a height of 3.5metres above auditorium floor level. 3 cross bars 750mm long, 600mm apart. SWL 20kg per bar.

4 x stage lighting/suspension bars (as above).

2 x Follow spot locations in technical gallery on each side at rear of auditorium.

#### Control:

Lighting control console: ETC Ion. Software version 2.4. Operated from control room or rear auditorium technical gallery SR.

#### Dimmers & Small Technical Power:

Zero 88 Chilli Pro 2410i by-pass hard-wired dimmers (3 No 24-way racks) in dimmer room behind projection room, plus paging/show relay loudspeaker.

#### Load circuits as follows:

FOH Bridges: 12 x 10A + 2 x 16A HP & 2 x 13A HP.

FOH Ladders: 6 x 10A + twin 13A HP each side.

Lighting Bars: 8 x 10A + 1 x 16A HP & 1 x 13A HP available for each of 3 No lighting bars.

Stage: 6 x 10A + 1 x 16A HP, 1 x twin 13A HP & 1 x twin 13A sound power  
DSL, DSR, USL & USR.

#### DMX & Data

15 x DMX-out connectors distributed around all principal lighting positions.

2 x active 3-out DMX splitter in DMX patch panel in control room.

5 x DMX-in connectors (2 x control room, 1 x rear aud technical gallery SR, 1x DSR & 1 x USL).

21 x RJ45 data connectors distributed around all principal stage/operating positions.

1 No 24-port Ethernet switch in sound/comms racks in control room lobby.

RJ45 Data patch in sound/comms racks in control room lobby.

#### House Lights:

LED house lighting controlled by 5-button scene setting controller DSR, and portably either in control room, or on SR auditorium gallery.

#### Working Lights:

5 No LED flood lights at high level above stage for general work lighting.

Whites to stage access areas.

Blues to stage access areas.

Blues/Whites switched from DSR or control room. USL/USR stairways blues/whites switched locally

## LETCHWORTH GARDEN CITY

### TECHNICAL SPECIFICATION

#### Loose Lighting Equipment

##### Lanterns

- 2 ETC S4 15-30° 750W zoom black.
- 2 ETC Desire D40 Vivid LED PAR black + 25°, 40° & 60° lenses.
- 16 Spotlight Sintesi Area 05 650W (T26) 7-62° fresnel black + 16 Barn doors.
- 2 Spotlight Cyclorama LED RGBW DMX cyc floodlight black.
- 8 PAR64 standard black with CP60/62/EXG lamps available + 10 Barn doors.
- 6 PAR64 short nose black with CP60/62/EXG lamps available.
- 8 ETC S4 Jnr 25-50° zoom black.
- 8 ETC S4 Jnr 26° black.
- 2 LDR Canto 1200 MSR follow spots c/w 5-colour changer & black stand.

##### Accessories

- 6 1.2/3.5m stands plus spigots.
- 2 750mm T-bars.

##### Cables

- 20 10m 15A/15A cables.
- 20 5m 15A/15A cables.
- 12 2m 15A/15A cables.
- 8 1m DMX XLR-5F to XLR-5M cables.
- 12 2m DMX XLR-5F to XLR-5M cables.
- 8 5m DMX XLR-5F to XLR-5M cables.
- 8 XLR-5M DMX terminator plugs.

#### Spare Power Supplies

63A TP+N spare general power DSL.

32A TP+N spare general power DSL

32A SP+N spare sound power DSR + DSL.

Technical earth on all sound power supplies.

## LETCHWORTH GARDEN CITY

### TECHNICAL SPECIFICATION

#### Cinema Projection,

**All media and Laptops are to be supplied for testing before agreement to use within shows/events.**

Kinoton DCP 30 MX II-4K with a Dolby DSS220 Server and Dolby Cat 745 IMB (Integrated Media Block)

Projection sound processor is a Dolby CP750 (7.1 configured) feeding 7 x Crown XLS 2000 amplifiers.

Local Icecrypt satellite receiver

2 x HDMI Inputs and 2 x DVI Inputs

1080 x 1920 resolution, however media upscaling may be available

#### Sound

Mixer:	Allen & Heath GLD-80 digital mixer with triple dedicated data lines in control room & rear auditorium technical gallery SL.
Audio tie lines (M+F XLR-3):	24x.
Microphone/audio patching:	In sound/comms racks in control room lobby.
DSP:	Allen & Heath IDR8 in sound/comms racks in control room lobby.
Digital Stage Box:	Allen & Heath AR2412 in sound/comms racks in control room lobby.
Power Amplifiers:	3x EM Acoustics AQ3 4-channel units in sound/comms racks in control room lobby.
Outboard gear:	Tascam CD200iL CD player with iPod deck in mobile effects rack (also contains wireless mic receivers and space for future equipment).
Main speaker system:	Centre cluster: 2x EM Acoustics EMS-81X. Prosc L+R: 1x EM Acoustics EMS-121X each side. Rear aud delay centre 2x EM Acoustics EMS-81X. Rear aud delay L+R: 1x EM Acoustics EMS-61X each side. Subs prosc L+R: 1x EM Acoustics EMS-112 each side.
Loudspeaker lines:	18x, including main loudspeaker lines.
Loudspeaker patch:	In sound/comms racks in control room lobby.

## LETCHWORTH GARDEN CITY

### TECHNICAL SPECIFICATION

#### Loose Sound/Comms Equipment (mics, cables, stands etc)

- Microphones
- 1 Trantec S4.16 rack n ready 6-way channel 38 microphone system c/w with 4 body pack & lapel mics, 2 hand held mics, antenna distribution & remote antenna kit.
  - 4 Shure Beta 58A vocal mics.
  - 1 AT MB Dk7 drum microphone pack.
  - 2 AKG 300b with CK91 Microphone capsules
- Accessories
- 2 K&M 210/9BLK black floor mic stands with boom.
  - 2 K&M 200BLK black floor mic stands.
  - 1 K&M 259/1 black low fixed boom short leg mic stand,
- Loose Speakers
- 3 DB Technologies Flexi FM 12 Wedge Monitors/FX speakers
- Cables
- 2 3m audio XLR-3/F to XLR-3/M.
  - 6 5m audio XLR-3/F to XLR-3/M.
  - 10 10m audio XLR-3/F to XLR-3/M.
  - 2 8-way XLR-3/F black stage boxes with feet and 10m long captive 8-pair/screen cable terminated in 8 No 500mm tails fitted with XLR-3/M connectors.

#### Communications

Intercom:	Twin ring, with 11 outlets.
Assisted hearing system:	Link to infrared radiator to each side of proscenium.
Video:	24 x BNC connectors to patch in sound comms racks in control room lobby.
1 x 1-in/4-out VDA in sound/comms racks in control room lobby.	
Paging:	2-zone paging points DSR & in control room, including link to building-wide VA system. 2 x Portable Cloud paging Mics.
5 No paging/show relay loudspeakers as above.	
Show Relay:	2 x Audiatechnika 8035 mics rigged on Auditorium ladders
Comms:	5 x Techpro Beltpacks + Headsets