

## Technical Equipment at The Carriageworks

May 2006

Please note that Imperial measurements are converted from metric and are therefore approximate.

### **MAIN AUDITORIUM**

#### **Stage Details ( for the standard proscenium arch configuration)**

Pros arch width = 9.6m ( 31' 6" )

Pros arch height = 8.2m (26' 11")

There are two adjustable false proscenium headers, which usually reduce the proscenium height to 5.5m ( 18' ½ " )

Total Stage depth ( from front edge of stage to back wall ) = 9.02m ( 29' 7" )

Stage depth ( to pros arch ) = 8.15m ( 26' 4" )

Apron depth = 0.7m ( 2' 4 ½" )

Apron width = 9.94m ( 32' 7" )

Stage width including wings = 16.61m ( 54' 5" )

Stage rake = none

The stage floor is constructed of hardboard over a plywood base.

And painted in dark grey

Maximum stage floor distributed weight = 5.0 kN/ sq.m

Maximum stage floor Point load = 3.0 kN ( assumed over 300mm square )

No fixings, nails or screws can be attached to the walls or stage floor.

The use of gaffer tape on the stage floor may incur a charge for repainting the stage, check with the theatre first.

4 x rolls of Harlequin dance floor, Black or Gray ( 2m x 10m )

Scene dock ( full height )

Width = 4.77m ( 15' 7½" )

Depth = 3.11m ( 10' 2" )

Height = 4.44m ( 14' 7" )

Scene dock ( reduced height )

Width = 8.28m ( 27' 2" )

Depth = 4.18m ( 13' 8½" )

Height = 2.2m ( 6' 7½" )

The scene dock can be separated from stage by an electrically operated sound "proof" door.

Get in is via a goods lift from the loading bay on great George st. to the scene dock at stage level.

Goods lift Door dimensions

Width = 1.35m ( 4' 5" )

Height = 2 m ( 6' 6½" )

Goods lift internal dimensions

Length = 6.29m ( 20' 8" )

Width = 1.84m ( 6' 0" )

Height = 2.13m ( 7' 0" )

NB there is no other method of getting scenery into the theatre

The orchestra pit is normally covered by 2m x1m rostra, and 5 rows of seats, therefore to minimise the loss of seats (up to 75), the size and configuration of the orchestra pit can be varied (contact the theatre).

Orchestra pit Maximum width = 9.94m ( 32' 7" )  
Maximum Breadth = 5.10m ( 16'10 ½ " )  
Height floor to stage = 1.29m ( 4' 3" )

RAT single halo light Opera music stands = 30

RAT Opera music stands = 6

RAT MD stand =1

RAT piano light =1

Piano = Yamaha Clavinova CVP - 208

Flying

There is a steel grid, allowing the placement of temporary pulleys or supports

Height to underside of Grid = 10.41m

Point loading = 5.0 kN ( assumed over 500mm. square )

The theatre currently has 9 single grid fixing sheaves with 18mm manila rope, for spot lines

There is a 39 line counter weight frame on stage right with cradles at 0.2m centres

Of which 27 are populated at present with another 5 being installed.

These comprise :

2 bars running up and down stage  
5 Double purchase sets down stage  
20 single purchase sets up stage

The flying bars are of a ladder construction with twin 48mm steel and are 0.3m deep.

Minimum length = 11m ( 36' 1½" )

Maximum length = 13.4m ( 43' 11½" )

Up / Down stage Bars = 6.6m ( 21' 8" )

The maximum distributed load is 350kg.

Width between fly floors = 12.18m ( 39' 11" )

3 sets down stage are used for house tabs and proscenium borders

The remainder is are free for lighting bars, masking, cyc and scenery

Side masking comprises :

1 pair of black wool serge flats, down stage = 1.2m x 6m ( 3' 11" x 19' 8½ " )

4 pair of black wool serge legs = 1.8m x 6m ( 5' 11" x 19' 8½" )

3 borders = 11.88 width x 2.95m drop ( 9' 8" x 38' 8" )

Cyclorama = white filled cloth 12m width x 7m drop ( 39' 4½" x 22' 11½" )

2 pairs of black wool serge tabs = 2 x 5.6m width x 5.6m drop ( 18' 4½" x 18' 4 ½ " )

1 pair of red wool serge tabs = 2 x 5.6m width x 5.6m drop ( 18' 4½" x 18' 4 ½ " )

1 white sharkstooth gauze ( 11m width x 5.1m drop )

1 black sharkstooth gauze ( 11m width x 5.1m drop )

2 hall T70 tab tracks = 11m ( 36' 1½" )

1 Triple E tab track = 10m ( 32' 10" )

6 x 1.8 to 3m braces ( Distributed between main auditorium and studio )

32 x stage weights ( Distributed between main auditorium and studio )

Ladders = Zargees = 3.55m (closed) ( 11' 8" )  
Aluminium A frame = 2.1m ( 6' 10 ½ " )  
Wood A frame = 1.83m ( 6' )  
Aluminium ladder = 4m ( 13' 1½" )

The Stage managers desk is equipped with headset communication to Lighting and sound Control, flies plus technical outstation points around the stage and auditorium, via tecpro belt packs.

Que lights to all technical areas

Working light control

Separate call facilities to the auditorium, Foyers, bars, and dressing rooms

### **Back Stage Facilities**

Dressing rooms include fixed dressing tables with lights and Mirrors, full length mirrors and 13 amp sockets

Dressing room 1

Dressing places =10

Dressing room 2

Dressing places = 16  
+ sink and Kitchen unit with draining board + Boiler

Dressing room 3

Dressing places = 10

Dressing room 4

Dressing places =12

Dressing room 5

Has level accesses to stage, toilet and shower adapted for disabled use

Unisex Toilets = 3

Shower =1

### **Stage Power**

3 x 125A 3 phase CEE sockets on stage left

1 x 83A 3 phase CEE sockets on stage left

1 x 32A CEE socket on stage left

twin 13A sockets on the 4 corners of the stage

Separated Sound power ( 13A ) on the 4 corners of the stage + control room

### **LIGHTING**

Lighting is controlled with an ETC Avab congo lighting desk

Operating three ETC sensor dimmer racks, via Ethernet.

Ethernet is distributed round the auditorium

There are 170 x 2.5Kw channels with 15A sockets, and 20 x 5Kw channels with 32A CEE sockets and two fused 15A sockets.

18 x 3kW Non-Dim circuits,

Please note, that the 192 2.5Kw dimmer modules, and 16 5Kw dimmer modules, are shared with the Studio, If your use of channels is great please contact the theatre.

Maximum load for all stage and FOH Lighting bars = 45kg/m run

- 12 x 3m six circuit Stage internally wired lighting bars
- 2 x 6 channel drop boxes
- 16 x Socapex to 15A 6 way Spiders
- 14 x 10m Socapex leads
- 6 x 25m Socapex leads
- 2 x 3 m Socapex leads
- 2 x Etcnet2 DMX Node

### **Lanterns**

- 39 x ETC Source four zoom 750w 15 – 30
- 16 x ETC source four zoom 750w 25 – 50
- 30 x Source four B size Gobo Holders
- 12 x 2.5kw Strand ALTO F
- 28 x 1.2kw Strand Cantata F
- 24 x James Thomas Engineering PAR 64 Floods
- 10 Selecon Pacific 45 – 75 zoomspot ( 600 to 800w) ( used in both main and studio)
- 10 x A size Gobo holders
- 10 x plastic transparency holder(Order code -19PACGHPLPH)

- 6 x SELECON LUI 4 compartment cyclorama batons with socapex connectors IN/OUT
- 18 x Cromax-Q colour changer
- 3 x Cromax-Q PS08 psu/splitter box
- 2 x Robert Juliat ALEX 2.5kw follow spots, with GT 4000 stand

Please note, the use of follow spots, require the construction of a follow spot platform that removes seats from the rear of the balcony.

### **Also available, however please check with the theatre**

- 1 x Martin Atomic Strobe + remote and DMX
- 4 x Martin MAC 550
- 1 x Look solutions Viper nt smoke machine
- 1 x Look solutions UNIQUE Hazer
- 1 x Le Maitre Ltd six way Pro stage Pyrotechnic controller
- 2 x Le Maitre Ltd flash pods
- 2 x PLC-XU73 LCD projectors
- 10 x Thomas par 16 Birdies with colour frame and wiring set

### **Old stock lanterns**

- 16 x IRIS FLOOD
- 6 x OPTIQUE 8/17
- 8 x CANTATA F
- 12 x PAR 64 Flood
- 6 x HARMONY F
- 2 x HARMONY PC
- 1 x HARMONY 15/28
- 7 x HARMONY 22/40
- 2 x CCT 2kw SILHOUETTE 10

2 x CCT 2kw SILHOUETTE 15

## Sound

Soundcraft Spirit Live 4<sup>2</sup>

1 x Marantz PMD331 CD Player  
1 x Tascam MD-350 Mini Disc  
1 x Denon DN-780R Double Cassette  
2 x Yamaha Q2031B 23 band Graphic equaliser  
1 x Yamaha SPX2000 Effects Processor  
1 x Allen & Heath iDR s Audio MX Processor

1 x Yamaha P5000 s (subs )  
2 x Yamaha P5000 s ( Main )  
2 x Yamaha P5000 s ( Fills )  
2 x Yamaha P2500 s ( FX )  
1 x Yamaha P2500 s ( monitor )

2 x Yamaha SW218V bass bins  
6 x Tannoy V12  
2 x Tannoy V 8  
2 x Yamaha AX 12  
2 x Tannoy cougar monitor wedges

10 x sure SM58  
2 x table stands  
4 x microphone stands  
5 x microphone stands with boom arms  
6 x BSS AR-133 DI boxes  
2 x EMO Dual DI boxes

54 Microphone lines distributed throughout the theatre / auditorium

Of which        12 = Down stage left  
                      3 = up stage left  
                      12 = Down stage right  
                      3 = up stage right

50 Tie lines distributed throughout the theatre / auditorium

Of which        6 = Down stage left  
                      1 = up stage left  
                      6 = Down stage right  
                      1 = up stage right

**Also available, however please check with the theatre**

6 x sennheiser ew SK 300 G2 Bodypack radio microphones  
2 x sennheiser ew SKM 300 G2 radio microphones  
1 x Marantz PMD 570 solid state recorder  
1 x Sabine FBX2400 dual Feedback exterminator  
1 x Yamaha SPX 990  
1 x Drawmer DL 221 Dual compressor / Limiter

## **Upstairs @ Carriageworks**

The studio is a multi configurational space with a mean width of 6.2m  
And length of 13.5m

The lighting grid comprises 12 horizontal 48mm OD scaffold bars  
13.5m from the floor

Maximum load All stage and FOH Lighting bars = 45kg/m run

Seating can be raked using rostra

20 x 2m x 1m "vario stage" Rostra ( lifts to 1m max )

20 x 2m x 1m aluminium Rostra

### **Power**

4 x Double 13A sockets around the walls

4 x Dedicated sound power Double 13A sockets

1 x 16A CEE sound power

### **Lighting Control**

ETC Smart fade 12 /24

( Zero 88 Bull Frog also available )

ETC sensor dimmer rack with a maximum of 72 x 2.5Kw channels with 15A socket outlets on the grid and around the walls.

The ED15RS dimmer modules are shared with the main auditorium, with a minimum of 25 channels.

Please check with the theatre if more are required

18 x Strand Quartet F

4 x Strand Quartet 22/40

Old lantern stock

12 x PRELUDE 16/30

8 x PRELUDE 40

Aluminium platform Ladders 1.8m ( 5' 11" )

### **SOUND**

Mixing desk = Yamaha MG 12/4

( Allan and Heath Wizard 14:4:2 also available )

Amplification = 2 x Carver PM950

1 x Yamaha P5000 amplifier

Speakers = 4 x Tannoy V12 ( flown on lighting grid )

Yamaha Q2031B Graphic Equaliser

Tascam 103 CASSETTE

Tascam MD 350 Minidisc

Marantz PMD 340 CD player