Main Auditorium
Technical Specifications

Contents

Note: This is a working document and can change at any time.

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Facility Specifications

Capacities

Theatre style	900
Standing	950
Banquet style	300

Stage Dimensions

Stage construction	18	mm plywood hollow stage
Height from Auditorium Floor	1	m
Stage width inc wings	26	m
Proscenium width	24	m
Proscenium height	6	m
Stage depth proscenium to rear drape	5.86	m
Rear drape to stage wall	1.45	m
Forestage depth	1.65	m
height to fixed lighting bars		

Note: NO flying system.

Dressings

Main drape	1	Black traveller (520 GSM wool)
Legs	4	black m wide (520 GSM wool), can be repositioned by prior arrangement
Rear drape	1	manual black traveller (520 GSM wool)

Loading dock

Location		access from rear of stage
Height from ground level	1	m (at stage level)
Dock door width	3.6	m
Dock door height	2.4	m

Backstage facilities

Greenroom		OP Side stage
Toilets	2	

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Access Equipment

Tallescope	1	on stage
Mobile Scaffolding	1	Can be organised by prior arrangement for on stage
Scissor Lift	1	Can be organised by prior arrangement for use

Audio system

Speaker system

EAW KF810P Line Array	12	hung as stereo line array system
EAW VFR89i Front fill speakers	6	in stage facade
EAW Otto subwoofers	4	across stage front (floor)

Console and Playback

Yamaha DM7 digital mixing console	1	FOH console
Behringer Ultralink Pro	1	Stereo sub mix from iMacs
Powersoft Power Amplifiers	3	Dante send from FOH to speakers
Luminex Gigacore 16i Switch	1	Dedicated network for Dante

Monitor system

Midas M32 mixer	1	Monitor console – side stage
Mackie C300 speaker	2	
Quest Engineering QM350i speaker	4	
Yamaha P3500S amplifier	3	6 total amplifier channels
Behringer P16-M	5	Personal monitors (system is capable of running 8 monitors)
Behringer PM1	1	

Multicore system

48 channel FOH multicore

3 passive transformer isolated splits per channel
12 balanced returns

Microphones

AudixOM6	3	
Beyer Dynamic M201 mic	1	
Oktava MK-012 condenser mic	1	
Rode NTS	4	2 matched pairs

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Sennheiser e901	1	
Sennheiser e902	1	
Sennheiser e904 drum mic	3	
Sennheiser EW100 G3 beltpack	4	
Sennheiser MKE2 lapel capsule	3	Sennheiser beltpack connector
Sennheiser EW100 wireless handheld mic	3	with e865 condenser capsule
Sennheiser XSW wireless handheld mic	2	with e865 condenser capsule
Shure MX412 microflex gooseneck mic	1	cardioid capsule
Shure SM57	8	
Shure SM58	4	

Accessories

Behringer DI100 DI	5
Klark Teknik DN100 DI	2
Radial PROD2	1
Radial PRODI	1
K&M tall boom stand	10
K&M short boom stand	5
Straight mic stand	1
Music stand	4
Guitar stand	4
3 bay guitar stand	1
Guitar amp stand	1
Speaker stand	2

Comms

Jands Ezicom 2 channel power supply	1	channels linked together
Jands belt packs with headsets	6	
Comms patch locations		2 patches in each stage pit
		PS wing
		OP wing
		7 patches in tech booth
		2 patches at dimmer racks
		Each camera location

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Lighting system

Control

High End Systems Nano Hog 4	1	
Dell 24" All-in-one touch screen PC	1	Running Hog4 PC
Elation eNode 4 ARTNET to DMX	1	
ENTTEC RDS 4 way DMX isolated splitter		
ENTTEC D-split 5/3 pin DMX splitter		
Ethercon terminated Cat5e	1	console to patch
Spare 5 pin DMX line	2	1 console to patch / 1 console to PS

Note: FOH Connection via ARTNET

Grid

FOH bridge	Distance to SL:	13.5 m	24°
	Usable width:	30 m	
	Rigging:	30 kg per 3.6 m span	
FOH bar	Distance to SL:	8.5 m	35°
	Usable width:	27 m	
	Rigging:	30 kg per 3.6 m span	
LX 1	Distance to SL:	0.7 m	≈0°
	Usable width:	24 m	
	Rigging:	30 kg per 3.6 m span	
LX 2	Distance to SL:	2.7 m	66°
	Usable width:	24 m	
	Rigging:	30 kg per 3.6 m span	
LX 3	Distance to SL:	4.7 m	52°
	Usable width:	24 m	
	Rigging:	30 kg per 3.6 m span	
LX 4	Distance to SL:	6.7 m	42°
	Usable width:	24 m	
	Rigging:	30 kg per 3.6 m span	

Note: Setting line (SL) specified as upstage side of proscenium

FOH bar is fixed and accessible via scissor lift by prior arrangement

LX 1 – 4 accessible by tallescope (or single person lift / mobile scaffolding by prior arrangement)

Dimmers and Patch

Jands HUB XCD 24 channel dimmer	1	configurable as dimmer or relay bypass modes
Strand 5kW dimmer circuits	7	DMX controlled via Jands DDX-60C DMUX
10-amp patch system	96	Circuits (See attached patch location diagram)

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House lights

Par 56 wide stubby cans (300W bulbs)   7 rows of 7 cans (each row is a separate circuit)

Conventional fixtures

Mote Richardson 10" Fresnel	6	2kW bulbs
Par 56 MFL	10	300/500W bulbs
Par 64 MFL	4	lkW bulbs
Selecon Zoom Spot profile spot	8	lkW bulbs
Strand Cadenza 12/22 profile spot	10	
ShoPro LED Fresnel 250TW	4	Main front wash

Intelligent fixtures

Martin Mac250 Entour profile	4	
Martin Rush MH3 beam	4	
Litecraft 12FC LED zoom wash	12	
Geni Oby 5	**4**	
Proshop 5-cell LED Bars	**20**	12 rigged over the stage

Atmospherics

Antari HZ-350 hazer	2	oil based

Note: Auditorium has a ASD system which must be isolated prior to use of atmospherics

Visual System

Main Projection

Epson EB-G7905UNL projector	1	7000 ANSI lumens. WUXGA resolution (1920 x 1200). SDI in via HDMI
motorised projector screen	1	5.53 x 3.11 m (16:9 ratio)

Side Projection

Epson EB-G7500UNL	2	6500 ANSI lumens. WUXGA resolution (1920 x 1200). SDI in via HDMI.
200" Fixed frame projector screen	2	One on either side of stage, upstage of SL, hanging below audio arrays.

Cue Projection

tbc	1	SDI in via HDMI
fixed screen	1	(4:3 ratio)

Cameras

Canon XA55 4K camera	4	On Manfrotto MVT502AM tripods
Canon XF200 HD camera	1	On KONOVA 1 m slider
Cuebi tally lights	4	Wireless tally lights

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Control and Patch

Blackmagic Design Atem 1 M/E Production Studio 4K	
Blackmagic Design Atem 1 M/E Advanced Panel	
Apple iMac	
Resi Ray Encoder	

1 Multiview output to dedicated 32" monitor

1 Control interface for Production Studio 4K

2

1 web streaming can be arranged by prior arrangement

Power

Production power supply to auditorium is 400 amps per phase with separate audio sub board. Significant quantities of phase colour coded production GPOs are available throughout.

4 x 10amp circuits on stage – Each pit is a separate circuit.

1 x 32amp 3 phase outlet is available PS next to amps.

100amp powerlock tails can be facilitated by prior arrangement.

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