



UNSW Hospitality

# Technical Information

## Science Theatre

### Summary of Key AV Inclusions

STAGE	15.8m(w) x 9m(d) x 1.06m (h) stage size
SCREEN	No screen – projection onto cyclorama only (16:10 aspect ratio / 1920 x 1200 pixels)
WIRELESS MICS	8 Channels (handheld or lapel)
LIGHTING	Road Hog 4 Lighting Desk  Full stage wash / various static specials throughout lighting rig / limited fixed gobo's  12 x LED side lights / 7 x LED cyc lights / 12 x LED top lights (moving head)

### Detailed AV Inclusions

#### Stage

The stage is a traditional proscenium-arch stage, with a motorised red curtain, full set of stage blacks and cyclorama.

Stage Dimensions:	Proscenium Height: 5.8m Proscenium Width: 15.8m Forestage Depth: 2.3m Total Stage Depth: 9m Stage Height: 1.06m	
Wing Space:	Each side: 2m	
Crossover:	Corridor under stage	
Dressing Rooms:	3, total capacity approximately 40 seated. On OP side of stage	
Loading Dock:	Access door 2.0m wide x 3.0m high On PS of stage	*No flat access to stage* stairs or access for truck tail lift
Personnel Lifter:	Snorkel UL25DC	Vertical Lift - 9m working height

## Audio

There is a full sound system in the venue, comprising of a Front-of-House PA, fold back speakers, a full complement of wired and radio mics and effects and processors.

FOH speakers:	Main speakers: 2 x Nexo GEO S12 Arrays Each array contains: 3 x GEO S1210 2 x GEO S1230 1 x RS.15-P	≥103 db SPL C at +4dBu +/- 4dB at 100Hz – 10kHz most of the room
Foldback Speakers:	4 x JBL VRX915M	800w ea
Foyer Paging:	Yes	Local paging mic in custodian office Microphone, feed from auditorium
Foyer Speakers:	4 x JBL Control 25	150w ea
Amplifiers:	FOH: 2 x Nexo NXAMP 4x4 Foldback: 2 x AM1200 quad amps available	Each amp 4 x 1900w at 8 ohms Each amp 4 x 300w/channel
Speaker Patches:	16	To all parts of stage
Audio Mixer:	Yamaha M7CL- 48 Digital Mixer	48 mono mic/line inputs 4 stereo mic/line inputs 12 fully assignable outputs
Audio Stage Box:	2 x Yamaha Rio1608-D2	16i/8o Digital Stagebox Interface
Effects (M7CL):	Extensive onboard effects:	Reverb Delay Echo Chorus Flange Pitch Mod
Radio Microphones:	2 x Shure ULXD4Q Quad Channel Digital Wireless Receiver	8 Channels ULXD2/SM86 or SM58 on request ULXD1/MX184 or Countryman B3
Microphones:	10 x Shure SM58 beta 10 x Shure SM57 beta 6 x AKG CK91 4 x AKG CK98 1 x Sennheiser e902 3 x Sennheiser e904	
Source Equipment:	2 x Tascam CD-500B 1 x Tascam SS CDR-1	frame accurate CD player CD player/recorder
Stage Mic Points:	29	12-way mic patch panels at each front corner of stage 5 mic points across front of stage
Tie Lines from Stage to Control Room:	24 analogue lines	fully patchable

## Vision

There is a basic system for projection of videos or computer images. Images are generally projected onto the cyclorama at the back of the stage.

Video Projector	1 x NEC PX602UL	Native Resolution: 1920x1200 Lumens: 6000
Screen	Cyclorama only	No dedicated projection screen
Video Tie Lines:	2 tie lines 2 fiber optic lines	From control room to Dress Circle Either side of stage to control room
Video Playback:	1 x JVC SR-HD1500	Blu-Ray/DVD player
Previewing of sources:	1 x Marshall Dual LCD monitor	Preview selectable for: switcher's output, 2 x Pc/Mac sources, 1 x DVD
Seamless Switcher:	1 x Extron ISS 506	Seamless analogue vision switcher 6 x RGBHV / RGBS / YUV / YC / V
Remote Control Camera:	Panasonic AWE560	3CCD, full PTZ control For monitoring & foyer feed only
Foyer Monitor:	3 x 46" LCD	Computer and video feeds from the Office including the auditorium camera.

## Lighting

With approximately 120 lights and a computerized control desk, the standard lighting rig can accommodate most events in the theatre.

Control Desk:	Road Hog 4
Dimmers:	3 x Bytcraft Solution 28 (80 Channels – 76 x 10amp & 4 x 20amp) All channels used by house fixtures
DMX Distribution:	1 x LSC Nexus NXSR Ethernet / DMX converter
Stage Lighting - Profiles:	20 x Selecon Pacific 800W 14/35 Zoom 12 x Selecon Pacific 800W 12/28 Zoom 12 x Selecon Pacific 800W 5.5/13 Zoom 10 x Strand Brio 600W 25/50 Zoom 8 x Strand Brio 600W 18/30 Zoom 6 x Strand Cantata 1200W 18/33 Zoom
Stage Lighting - Fresnel's	10 x 1.2kW F with Barndoors'
Stage Lighting - PCs	20 x 1.2kW PC with Barndoors
Stage Lighting - Moving lights	12 x Martin Rush MH6 WASH
Stage Lighting - Par cans	12 x ETC Desire D40 Lustr+ LED
Stage Lighting - Cyc lights	7 x Chroma-Q Color Force 72 LED batten
Stage Lighting - Follow spot	NONE
DMX Patching:	To / from stalls, both sides of stage, fly floor. Rigger's control.
Moving Trusses	1 x upstage 12m 400mm box truss on chain blocks Allowable uniform load 32kgs/m Allowable point load 193kg

All other trusses are dead hung and cannot be flown in  
Access to these truss' is via vertical lift only