

# Technical Specifications

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# Venue

#### **Architecture**

LEC auditorium ceiling is raked, with the lowest point meeting the upstage auditorium wall.

The auditorium does not have fixed tiered seating and as such can be configured into various modes for events, such as banquet, flat floor seating, tiered seating, standing and expo. All tiered seating in the balcony level is fixed.

The venue is not a conventional proscenium arch but it does have a 1,500 mm high fixed smoke baffle in front of the setting line which acts much like one with side curtains to form a false proscenium and mask the wings.

#### **Flooring**

Tight loop, low pile grey carpeted squares over concrete. Carpet squares are approximately 1,000 mm x 1,000 mm and are removable. Upon request the carpet can be taken up to enable forklifts and other heavy machinery to drive across the auditorium. EWP scissor lifts do not require carpet removal to travel throughout the auditorium areas.

#### Cable conduit access pit

- · Centre auditorium.
- · PS wing auditorium.

150 mm conduit connects all access pits. (Please see venue master plan for exact locations).

#### **Venue dimensions**

Height of stage from auditorium floor is 950 mm.

Stage width (performance area) 11,200 mm.

Stage wings width (each side) 2,400 mm.

Stage depth 8,400 mm from front edge of thrust to back wall (thrust 1,200 mm).

Auditorium width 31.100 mm.

Auditorium depth 22,300 mm (excluding stage, not including under balcony/Pre-Function).

Pre-function depth 8,600 mm.

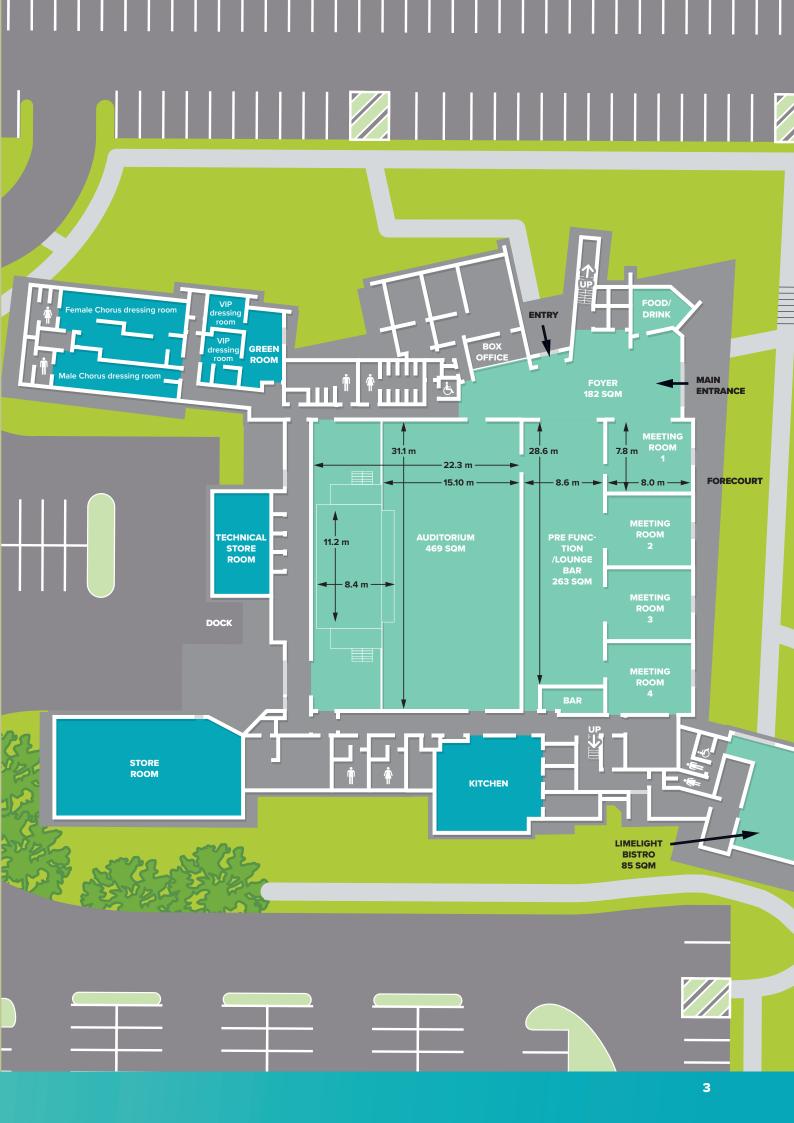
Meeting rooms (per room, 4 rooms in total, configurable in various ways with operable walls) 7,800 mm x 8,000 mm.

#### **Loading dock**

The LEC is serviced by a dual loading dock, this includes a dock at truck height and a ramp to auditorium floor height. Roller door height is 3,800 mm. Roller door width is 3,600 mm. Truck dock height is 900 mm.



Please note: Loading dock is to auditorium floor level, NOT stage level



# **Staging**

#### **Main stage**

Qty	Model	Notes
50	2,400 mm x 1,200 mm decks of customisable StageRight Staging - 1 tonne per 2,400 mm x 1,200 mm section load rating	Non-skid, black vinyl top StageRight Staging decks as standard on stage, with grey carpeted decks on the wings
4	Step treads to suit 950 mm height	Black low gloss framing with white tread capping.

In standard format the stage performance area is 11,200 mm between the legs and 8,400 mm from the down stage edge of the thrust to the back wall. The wing space on either side of the stage is 2,400 mm x6,000mm.

For formats with the stage thrust removed, the stage depth reduces to 7,200 mm.

Set standard in proscenium arch mode with a full complement of black box style theatre masking, the stage can be reduced in size, removed entirely or extended to suit a variety of events. Additional

wheelchair ramps or lifts and stage extensions can be organised to suit requirements with sufficient prior notice.

The stage height is 950 mm from the auditorium floor as standard.

Black painted Masonite panels to skin stage are available (at additional cost).



Please note: NO screwing or drilling is allowed into the main stage.



#### **Stage risers**

Qty	Model	Notes
12	2,000 mm x 1,000 mm Porta Floor decks	Carpeted, available with 300 mm legs
3	2,400 mm x 1,200 mm Mega Deck	Available with 600 mm or 300 mm legs
2	1,200 mm x 1,200 mm camera risers	Fixed 300 mm height
2	Small step treads	To suit max 600 mm deck height

# **Drapes and masking**

Qty	Model	Notes
2	7.5 m x 6 m Front of House curtain, aubergine in colour	Traverse action centre opening motorised track operable from pendant control on PS
8	2 m x 6 m legs, black in colour	legs per side on fixed bars – cannot be flown in
6	2 m x 6 m tabs for US-DS masking	3 per side on fixed curtain track – cannot be flown in
2	7.5 m x 6 m Mid stage curtain, black in colour	Traverse action centre opening motorised track operable from pendant control on PS
1	12 m x 6 m cyclorama, white in colour	Standard format hung on the furthest upstage bar
3	6 m x 6 m tabs, black in colour	Used as smother on cyclorama bar or scenery bars. Not hung as standard
5	12 m x 1.5 m borders	On fixed bars – cannot be flown in



Please note: There is no on-stage cross over.

#### Stage manager's desk

Stage Managers Desk is fitted with castors to move around as required and is located as standard on PS wing. Upon request it is relocatable with patch points available on both OP & PS wings.

Only wired comms are available in house as standard. Wireless comms can be sub-hired at an additional cost if required.

Qty	Model	Notes
1	Jands Ezicom master base station	Wired comms
5	Jands Ezicom sub stations	Wired comms
5	Beyer headsets	Single & dual ear available
1	Monitor with Live Stage Feed	Via in-house MATV loop
2	Audio circuit 240 V power	Exclusively for audio equipment
1	Audio paging and show relay to all dressing rooms and BOH areas	Via 100 V line system throughout BOH

# Lighting

#### **Overview**

Please refer to the LEC house standard LX Plan for the standard configuration of the LEC lighting rig.

Additional fees apply for altering the rig and to also return to standard after events.

Additional lighting fixtures and facilities can be made available at request, subject to provision of appropriate lead time and availability of equipment.

Various lighting specials available as identified through negotiations and event planning meetings and subject to a lighting pre-rig before the event.

#### **Control**

Qty	Model	Notes
1	High End Systems Full Boar 4	2 x 15.6-inch multi-touch monitors, 10 x motorized playback faders, 4 x on-board DMX universes, 2 x gigabit Ethernet ports for Art-Net, sACN, and console networking. Standard house LX console
1	High End Systems Hedge Hog 4	12.1" multi-touch monitor, 10 x faders and four encoder wheels.
8	12 channel dimmers - Jands FP12 (5), Jands FPX (1) & LSC ePro V3 dimmers (2)	96 dimmer channels available in total
3	LSC NXSR Nexus 5 Port DMX/Ethernet Converter	ArtNet system linked between Bio Box and BOH dimmers with fibre connection. 2 Universes used as standard, with 5 Universes available in total.
1	LSC DMX Splitter	1 in 5 out, plus through

### **Generics**

Qty	Model	Notes
6	Selecon Pacific 12-28 Zoom profile	1,000 W (B size gate)
8	ETC Source4 19 Degree Profile	750 W (B size gate)
22	ETC Source4 26 Degree Profile	750 W (B size gate)
4	ETC Source4 36 Degree Profile	750 W (B size gate)
4	ETC Source4 50 Degree Profile	750 W (B size gate)
5	Selecon Acclaim Axial 18-34 Zoom Profile	650 W (M size gate)
9	Robert Juliat 310 PC	1,200 W (Pebble Convex lens).
6	Robert Juliat 310 Fresnel	1,200 W
12	Selecon Compact Fresnel	1,200 W
10	Par 56	300 W 240 V cans
4	Selecon Acclaim Fresnel	650 W

#### **LED**

Qty	Model	Notes
12	Martin MAC Aura LED wash	RGBW LED wash moving head
6	Martin MAC Aura XB LED wash	RGBW LED wash moving head
24	ACME Stage Par 100 IP	WW 100 W LED Par
4	HEX16 LED strip	RGBWA & UV 1m strip boom mounted side light as standard
5	iLED Pro LED strip	RGBWA 1m strip
10	ProShop LED strip	RGB 1m strip, used as cyc wash in standard
4	ACME LED Panel 7TC	7 x 3 W RGB Tri-colour LED, wash panel
4	NiTec Litepar T12	12 x 3 W RGB Tri-colour LED par
4	ProShop LED Par	RGB LED par

# LX effects

Qty	Model	Notes
2	Ayrton Ghibli	600 W LED Moving head spot fixture
4	Ayrton Diablo	300 W LED Moving head spot fixture
1	Unique2 Hazer	subject to additional hire fee
1	Jem ZR 33 Smoke Machine	subject to additional hire fee
1	Mirror Ball Motor	subject to additional hire fee
1	36 inch mirror ball	subject to additional hire fee
1	Martin Atomic strobe	subject to additional hire fee

Use of smoke and haze machines must be discussed and authorised by LEC technical staff before operation.

LEC has dedicated power circuits on prompt and opposite prompt side of stage for smoke and haze machines which only power on once the venue smoke detectors are switched over to "Show Mode" causing only thermal rate-of-rise conditions to trigger fire alarm systems.

Only LEC technical staff are authorised to set the venue into "Show Mode".

#### **Lighting positions**

All lighting positions are fixed with reference to the Setting Line (SL). The Venue SL is 1,300 mm from front of stage (with thrust installed as standard).

All lighting position measurements are taken from stage Deck Height (DH) and Setting Line (SL). All measurements should be confirmed on site where absolute precision is required.

Overhead bars are 15,000 mm long and are wired with 17 (LX3), 18 (LX1) and 24 (LX2 & LX4) patch points. FOH bars are 16,000 mm wide with 19 patch points per bar. LX2 and LX4 are wired with DMX, patched from BOH.

The LEC has two perch positions, which are extremely wide to the stage front, they are most appropriate for auditorium shots, and it is recommended to use the outer ends of FOH1 for perch positions in most instances.

Stage sidelight is provided from vertical pipe boom arms fixed to the ends of LX1, LX2 and LX3.

#### **Miscellaneous**

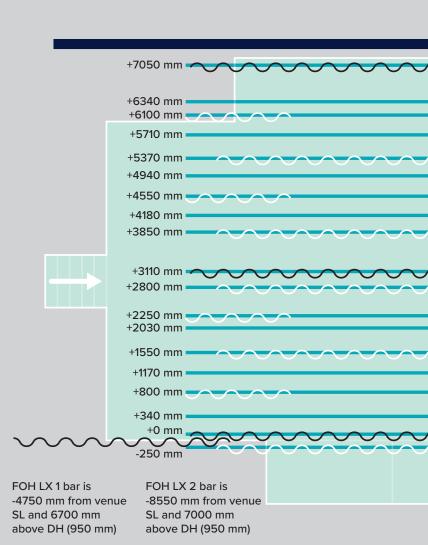
The LEC maintains a limited stock of 240 V piggy back patch and extension cable, DMX leads, other lighting connectors and a limited stock and selection of filter gels.

Please confirm any specific requirements you may have in event planning discussions.

Please note: The mid stage curtain is permanently rigged from the flown bar at position 10 and cannot be used as a lighting position.

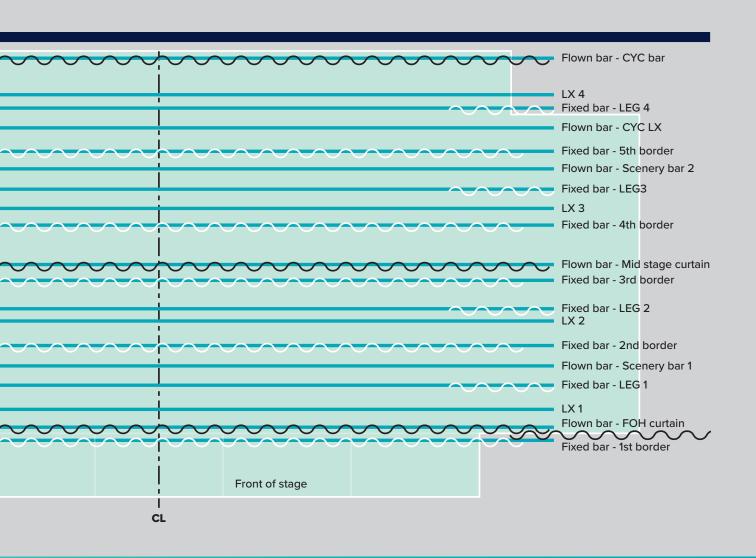
#### **Bar plot**

Distance from venue SL	Bar	Name	Notes
-250 mm	1	1st border	Fixed bar
0 mm	2	FOH curtain	Flown bar 6,050 mm above DH
+340 mm	3	LX1	Flown bar
+800 mm	4	Leg 1	Fixed bar, non-continuous
+1,170 mm	5	Scenery bar 1	Flown bar
+1,550 mm	6	2nd border	Fixed bar
+2,030 mm	7	LX2	Flown bar
+2,250 mm	8	Leg 2	Fixed bar, non-continuous
+2,800 mm	9	3rd border	Fixed bar
+3,110 mm	10	Mid stage curtain	Flown bar



Distance from	Bar	Name	Notes
venue SL			
+3,850 mm	11	4th border	Fixed bar
+4,180 mm	12	LX3	Flown bar
+4,550 mm	13	Leg 3	Fixed bar, non-continuous
+4,940 mm	14	Scenery bar 2	Fixed bar
+5,370 mm	15	5th border	Fixed bar
+5,710 mm	16	Cyc LX	Flown bar
+6,100 mm	17	Leg 4	Fixed bar, non-continuous
+6,340 mm	18	LX4	Flown bar
+6,940 mm	19	Cyc bar	Flown bar, 5,850 mm above DH
+7,100 mm		US wall	Matt black w/acoustic panels

- FOH LX1 is a fixed bar at -4,750 mm from venue SL & 6,700 mm above DH (950 mm)
- FOH LX2 is a fixed bar at -8,550 mm from venue SL & 7,000 mm above DH (950 mm)
- Both FOH bars are accessed via a EWP scissor lift
- Over stage LX bars are focused from a 3,500 mm platform ladder. None of the fixed bars are accessible when stage is installed
- Over stage bars are set to a raked ceiling with the furthest US bar being the lowest point at 5,850 mm above DH and the furthest DS bar 6,050 mm above DH
- All flown bars have a W.L.L of 300 kg per bar, 100 kg per point



# **Audio**

#### **FOH PA system**

Qty	Model	Notes
16	NEXO GEO M1012 – 10" LF & 1.4" HF, 12° cabinet	FOH L & R (8 cabinets hung each side)
2	NEXO GEO M1025 – 10" LF & 1.4" HF, 25° cabinet	Hung for centre down fill
6	NEXO MSUB15 – 15" LF sub cabinet	Hung behind L & R arrays in cardioid pattern (3 cabinets each side)
4	NEXO LS18 – 18" LF sub cabinet	Ground stacked L & R (2 cabinets double stacked each side)
4	NEXO ID24 – dual 4" LF & 1" HF cabinet	Ceiling mounted for under balcony delay
4	NEXO NXAMP4x4C power amplifier	4 channel power amplifier & DSP

#### Control and I/O

Qty	Model	Notes
1	Yamaha CL5 Digital Mixing Console	72 mono & 8 stereo input channels, 24 mixes / 8 matrices Mix/Matrix Buses. House standard audio console
2	Yamaha Rio 1608-D2 I/O rack	16 analogue inputs and 8 analogue outputs
2	Yamaha Ro8-D rack	8 analogue outputs (1 unit for amp outputs, 1 spare)
1	Yamaha Ri8-D rack	8 analogue inputs (racked at FOH for extra inputs)
1	Yamaha M7CL-48	48 mono inputs & 4 stereo input channels, 16 mix / 8 matrices Mix/Matrix Buses. Dante-MY16-AUD card installed

All distribution throughout the venue is over a dedicated redundant Dante network with 300 series Cisco switches located at FOH and BOH. Additional direct point-to-point Ethercon ports from FOH to BOH are available for other Audio over Ethernet technologies & protocols that won't work running through switches.



**Please note:** that the standard FOH mix position is located in the bio box at rear of the tiered balcony seating (Level 2).

#### **Playback**

Qty	Model	Notes
2	Denon DN-C620 Professional CD player	1 unit patched as standard
3	QLAB 4 Theatre Cueing System	iMac & Mac Mini
1	ProPresenter 6	iMac

# **Passive speakers**

Qty	Model	Notes
8	AT Professional SFM24 Floor Monitor	12" driver + horn
1	AT Professional SDM215 Drum Fill Monitor	15" driver + horn
2	AT Professional SS24	12" driver + horn
4	Turbosound TCS-56	12" driver + horn (Hung each side of stage behind leg 1 & leg 3 as US + DS sidefill)
4	Powersoft T604 Power Amplifier	6,000 W/4-channel High-performance Amplifier with DSP and Dante. 1 used for side fill speakers, 3 used for foldback wedges.

### **Active speakers**

Qty	Model	Notes
4	QSC K12.2 Powered Loudspeaker	12" driver + horn - 2,000 W
4	Electro-Voice ZLX-12P Powered Loudspeaker	12" driver + horn - 1,000 W
2	RCF 4PRO 8001-AS Active Subwoofer	18" driver - 800 W

# **Effects and processing**

All processing is done on board the Yamaha CL5 and NEXO NXAMP4x4C power amplifiers.

Standard CL5 VCM suite & Premium rack effects available.

Dynamic processing, graphic and parametric EQ available on all Yamaha CL5 outputs.

#### Wireless radio microphones

LEC has 10 channels of Shure ULXD1 available on - L51 632-696 MHz band.

2 channels come as standard in venue hire, 8 more available at additional cost and additional channels can be sub hired in by LEC as per your requirements.

Wireless radio microphones available for use with Shure ULXD receivers are:

Qty	Model	Notes
12	Shure SM58 Hand held microphone	Shure Lithium-Ion Rechargeable Battery
8	Shure ULXD Belt pack transmitter	Shure Lithium-Ion Rechargeable Battery
10	JAG IMX6A Premium Headset with Shure TA4F connectors	Beige
2	Shure WH20 Headset microphone	Black
12	Shure WL185 Lavalier microphone	Black
4	Rode Lavalier microphone	Black
2	TA4F instrument cable	Use with belt pack to wirelessly transmit guitar or other 6.35 mm jack output instruments

### **Microphones and DI**

Qty	Model	Notes
8	Shure SM58	1 x switchable
5	Shure SM57	
4	Electro-Voice PolarChoice 18" Lectern microphone	
2	Countryman Isomax 18" Lectern microphone	
2	DPA 4099P	Piano stereo matched pair
1	Shure Beta 52A	
3	Audio-Technica ATM23HE	
1	Audio-Technica ATM25	
8	Audio-Technica AT853a Choir microphone	Subject to additional hire fee
4	Audio-Technica ATU853RU Choir mini- shotgun	Subject to additional hire fee
10	AKG C451 Condenser	Subject to additional hire fee
2	AKG C214 Condenser	Subject to additional hire fee
6	Radial Pro48 DI	Active, mono
2	Radial ProD2 DI	Passive, stereo
1	Radial JDI DI	Passive, stereo
2	Radial JPC DI	Active, stereo
4	Radial StageBug SB-2	Passive, mono
6	Radial IC-1 Ice Cube	Mono, balanced line isolator
2	ARX USB DI	Stereo

240 V 10 A power circuits available BOH, side stage and in control position on a dedicated audio only earthed circuit. These can be identified by a green outlet panel cover.

1 x 32 A 3 phase power outlet (spare) is available BOH on dedicated audio earthed circuit.



# **Audio-visual**

#### **Projection**

Qty	Model	Notes
3	Panasonic PT-RZ770 Laser Engine Projector	7,200 ANSI Lumens, WUXGA/ 1920x1200 resolution, 10,000:1 contrast ratio, 1-Chip DLP  OP & PS projectors have the standard ET-DLE170 lens fitted, centre projector has ET-DLE085 lens fitted
2	12' x 6'9" Stumpfl Screen – 16:9 aspect ratio	Hung from proscenium on OP & PS of stage as standard
1	16' x 9' Stumpfl Screen – 16:9 aspect ratio	Centre – not hung as standard Subject to additional hire fees

Projection onto Cyc is also available which can support an image approximately 24' x 13'.

#### **Control**

Qty	Model	Notes
1	Blackmagic ATEM Production Studio 4K, live video switcher	4 x HDMI inputs and 4 x SDI inputs, 1 x Program output  1 x AUX output, Software switched from Mac Mini
1	27" iMac – Main AV control	ProPresenter 6, QLAB 4 & Microsoft PowerPoint
1	27" iMac – Main Audio control	QLAB 4
1	Mac Mini	Blackmagic software switcher
1	Blackmagic Smart Videohub 20x20	Venue video routing

All AV cable runs throughout LEC are via SDI or fibre.

Content is available to be sent to our 3 projectors as well as wall mounted HD TV's in Pre Function (2), Meeting Rooms (4) and Foyer (2).

Stage View Camera available via SDI to the above listed screens as well as via an MATV system over coaxial to all venue TV's, including Greenroom, Dressing Rooms, Chorus Rooms and Meeting Rooms. The quality of this feed is not suitable for sending live to screens for audience viewing.



Please note: Audio visual facilities come at an additional charge to auditorium hire.



Please note: WiFi & Cabled Internet Facilities are available.



# **Cameras and streaming**

Qty	Model	Notes
1	Panasonic HC-X2000 4K Video Camera	4K, 120fps video recording, Leica 24x optical Zoom lens, 3G-SDI Output
1	Panasonic HC-VX1 4K Camcorder	4K, 30fps video recording, Leica 24x optical Zoom lens, mini HDMI output
1	Zoom Q8 Handy HD Video & 4-track Audio Recorder	HD 60fps video recording, 160° Wide lens, X/Y Microphone attachment, Two XLR/TRS Combo connector inputs, mini HDMI output
1	Blackmagic ATEM Mini Pro	Live production switcher & streaming engine, 4 ch HDMI inputs
1	Yamaha CS-700	120° ultra-wide angle camera, four-element speaker bar with Ultra-wideband audio





#### 170 Wembley Rd, Logan Central

The Logan Entertainment Centre is owned and operated by Logan City Council, providing quality facilities for our community and visitors.

Every care has been taken to ensure the information in this brochure is correct at the time of printing.

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