

**Technical Rider**  
**Leo Lee Art Centre Theatre**  
Date: September 16, 2009

**Lighting:**

**Console:**

Macostar custom made 12x3kw dimmer X 6

**Dimmer:**

Colortran Innovator 600 Lighting console X 1

**Cyc Light:**

LDR Inno 4 x A1000 CYC light 1kW X 4

**Fresnel:**

LDR Tono F2000 plus Fresnel 2kW X 6

LDR Nota F1200 plus Fresnel 1kW X 12

**Profiles:**

ETC Source Four 19° X1

ETC Source Four 26° X8

ETC Source Four 36° X11

LDR Nota 18/36 1kW X 6

LDR Nota 30/55 1kW X 12

LDR Tono 18/36 2kW X 3

**Par Can:**

PAR 64 X 24

**UV Light:**

WildFire LT-400

400W Long-Throw Series UV Spot/Flood X1

**Scroller:**

Chroma-Q Universal scroller X18

(Please refer to the lighting plot where  
the scroller are hang)

\* Scroller colour in order: 00, R312, R21, R19,  
R26, R32, R27, R39, R47, R49, R62, R65, R80,  
R59, R95, R91\*

**Followspot:**

Robert Juliat Topaze 1.2KW MSD Followspot X2  
(with Telrad sight attached to the followspot)

Version 4.0

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By Theatre Technical Director: Stanley Ma

**Accessories:**

ETC Source Four Iris	X4
ETC Source Four B size gobo holder	X10
LDR Gobo holder Nota	X 2
Barn doors for Par Can and Fresnel	

**Gobo:**

GB 813/ Uneven Pane  
GB 216/ Blizzard  
GB251b/ Water Shimmer 2  
GB 165/ Stone Wall  
GB 703/ World  
GB 414/ Aurora Borealis

**Lighting Position:**

Over head bridges	X2
House left side boom	X1
House right side boom	X1

**Dance Floor:**

Rosco Cabriole Black/Grey 55''(W)x44'(L)	X5
Rosco Cabriole Black/Grey 55''(W)x42'(L)	X3

**A/V:****Sound Console:**

MACKIE ONYX 80 Series	X 1
-32 Channel 8 Bus live sound console	

**Amplifier:**

QSC DSP 322ua	X1
- configurable DSP, 8 analog universal (mic/line) inputs via Euro-style connectors, 8 analog outputs	
QSC PLX 3602	X2
- 2 channels, 775 Watts/ch @ 8ohm, 1250 Watts/ch @4 ohm, 1800 Watts/ch @ 2 ohm	
QSC CX 254	X1
- 4 channels, 170 Watts/ch @ 8ohm, 250 Watts @ 4ohm, 450 Watts/ch @ 2ohm	
IC-audio MX-AMP 120E	X1
- Mixer amplifier, 120 Watt, 5 inputs 120W	
dbx 2215	
-2 Channel 2/3 Octave Equalizer	X2

**Speaker:**

QSC ADS-52 front fill loudspeaker	X7
-5'' high-efficiency woofer, CD horn loaded, .1'' dome tweeter	
RH CFX 81 Loudspeaker	X3
-A 2 way full range system includes a 8'' woofer and a 1'' tweeter	
RH CFX 151 Loudspeaker	X3
-15'' Woofer-2''HF 2 way complex conic loudspeaker	
QSC HPR 122i on stage monitor	X4
-Active 12'' LF Foldback monitor	
QSC AD-C42T	X19
-Waveguide-loaded neodymium HF transducer 4'' LF driver	

**Communication/Show relay:**

Clear Com MS 704 base station	X1
Clear Com RS-610 Belt pack	X6
Clear Com CC-40 Headset	X6
Panasonic AW-E650 Show relay camera 1/2'' CCDx3	X1
Panasonic AM-LZ16MD73 16X Power Zoom Camera Lens	X1
Panasonic AW-PH360 Pan Tile Base	X1
Panasonic AW-RP555 Camera, pan tile base remote control	X1
Olevia LCD TV 319 PB located at the drama studio at the back stage	X4
Olevia LCD TV 319 PB located at the booth	X2

**Playback:**

Tascam MD350	X1
Tascam CD-RW900CD	X1
Yamaha SPX2000 Digital Multi-Effecter	X1
EXTRON MAV Plus 128SV 12 input, 8 Output AV Matrix	X1
EXTRON MMX32 VGA A 3 Input, 2 Output VGA Switcher	X1
Pioneer DVD DVR-450H	X2
LG VCR GC992NW	X1

**Microphones:**

Shure BETA 58A Wired Handheld microphone	X2
Shure BETA 57A Wired Handheld microphone	X2
Neuman KM184 Wired condenser microphone	X2
Sennheiser EW135G2 Wireless microphone (e835 cardioid)	X4
Sennheiser EW145G2 Wireless microphone (e845 super-cardioid)	X2
Sennheiser EW100G2 Wireless bell pack	X4
Sennheiser ME 2 lavalier microphone	X4
(Note: EW100G2 have the same frequency as EW135G2)	
Sennheiser HSP4 in beige colour	X1
Countryman E6 directional earset (W6 sensitivity) in light beige colour	X2
Countryman EMW omni lavalier (S Response) in black colour	X2
AKG C451B Directional condenser microphone	X1
Shure Microflex Microphone MX4188	X1

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Crown PCC-160 Microphone	X4
K&M Microphone stand	X10

**Piano:**

Yamaha C7 grand piano	X1
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**Projector:**

PLC-XF47	X1
-15,000 ANSI lumens	
-True XGA (1024 x 768) resolution	
-2,000:1 contrast ratio	

**Projection Screen:**

Draper Rolleramic, Viewing area: 6 Meter (H) x 4.5 Meter (W)	X1
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**Stage:**

Canada maple wooden floor (drilling or screwing the stage floor is not allow)  
Orchestra pit at the apron of the stage  
Three over head acoustic panel rig at the fly system's batten  
Total of ten retractable acoustic panels located on stage left and stage right  
Stage right and Stage left are using a total of 8 sets of German masking  
Loading elevator has access to all floors

**Fly System:**

A total of 22 line set

Electric chain hoists (1 ton motor) for 10 line sets. (SWL 300kg each)

Winch system for 12 line sets. (SWL 300kg each)

Line Set	Panel Edge Distances	Loft Block Distances (in mm)	Operation	Main Use of the Batten
1		350 (Away from the proscenium wall)	HW	Main Teaser
2		150 (Away from the proscenium wall)	HW	Main Curtain
3		100	EH	Projector screen (can be retractable using motor)
4		400	EH	1 <sup>st</sup> LX
5	600	1000	EH	Acoustic panel A
6	--	1300	HW	Spare
7	2100	1700	HW	Acoustic panel A (Rear)
8		2150	HW	Border
9		2300	EH	2 <sup>nd</sup> LX
10	2500	2900	EH	Acoustic panel B
11	--	3100	HW	Spare
12	4000	3600	HW	Acoustic panel B (Rear)
13		4100	EH	Mid-stage curtain
14		4200	HW	Border
15		4400	EH	3 <sup>rd</sup> LX
16	4600	5000	EH	Acoustic panel C
17	--	5100	HW	Border
18	--	5300	EH	4 <sup>th</sup> LX
19	6100	5700	HW	Acoustic panel C (Rear)
20		6200	HW	Spare
21		6400	EH	Spare (When the cyclorama is not in use, the spare batten will be used to fly the bottom part of the cyclorama)
22		6500	HW	Cyclorama

Note:

The running dimensions are from the face of the proscenium wall to the centre-line of the loft blocks for each batten set.

The panel edge location distances are for panels 1500mm wide, lying horizontal.

There are two line sets in front of the proscenium wall, they are line set one and two.

EH means Electric Hoist operated line set.

HW means Hand winch operated line set.

1<sup>st</sup> line set: Main Teaser

2<sup>nd</sup> line set: Main curtain

3<sup>rd</sup> line set: Projector screen (can be retractable using motor)

4<sup>th</sup> line set: 1<sup>st</sup> LX

5<sup>th</sup> line set: Acoustic panel A

6<sup>th</sup> line set: Spare

7<sup>th</sup> line set: Acoustic panel A (Rear)

8<sup>th</sup> line set: Border

9<sup>th</sup> line set: 2<sup>nd</sup> LX

10<sup>th</sup> line set: Acoustic panel B

11<sup>th</sup> line set: Spare

12<sup>th</sup> line set: Acoustic panel B (Rear)

13<sup>th</sup> line set: Mid-stage curtain

14<sup>th</sup> line set: Border

15<sup>th</sup> line set: 3<sup>rd</sup> LX

16<sup>th</sup> line set: Acoustic panel C

17<sup>th</sup> line set: Border

18<sup>th</sup> line set: 4<sup>th</sup> LX

19<sup>th</sup> line set: Acoustic panel C (Rear)

20<sup>th</sup> line set: Spare

21<sup>st</sup> line set: Spare (When the cyclorama is not in use, the spare batten will be used to fly the bottom part of the cyclorama)

22<sup>nd</sup> line set: Cyclorama