



# Ko Shan Theatre New Wing - Auditorium

## FULL Technical Information

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### Performing Arts Division – Technical Support Unit

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### GENERAL SET-UP

*Auditorium of Ko Shan Theatre New Wing operates on a basic set-up policy. That is, all equipment has a pre-rigged position at the start of bookings. Hirers requiring to move or remove equipment must do so (and reinstate it) within their booking period.*

*Check with our Technical Manager for any other equipment and technical enquiry.*



Auditorium of Ko Shan Theatre New Wing is a traditional proscenium theatre and fully equipped to support Chinese opera, dance, drama, music concert, talk and variety performances.

### DIRECTIONS

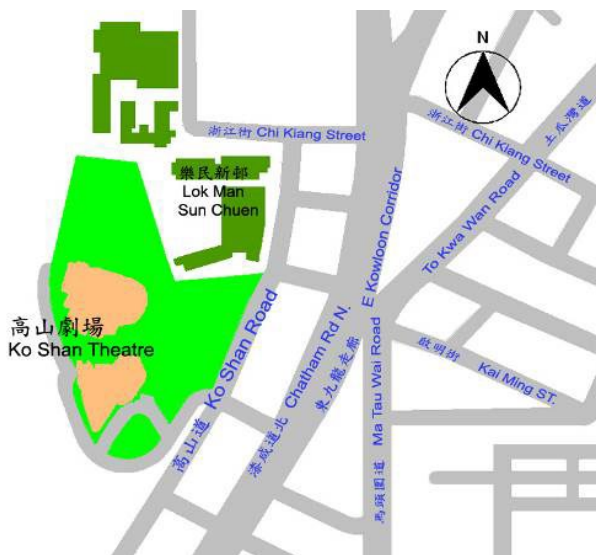
MTR:  
Kwun Tong Line, Ho Man Tin Station, Exit A2

Tuen Ma Line, To Kwa Wan Station, Exit C

Tsuen Wan Line, Mong Kok Station, Exit B2 → Mini bus routes no. 27M

Freeway (From S to N):  
Cross Harbour Tunnel → Hong Chong Road → Chatham Road North → Pak Kung Street (turn right) → Ko Shan Road

Freeway (From N to S):  
Boundary Street → Waterloo Road → Princess Margaret Road → Fat Kwong Street → Shun Yung Street → Ko Shan Road



### LOADING

Clearance of truck: 4.70m

Dock Height: 0.87m

Steel door opening:  
3.8m x 3.0m (W x H)

Cargo lift:  
1.7 x 2.5 x 2.0m (W x H x D)

Lift Door:  
1.68 x 2.38m (W x H)

### PARKING

Permit required



Size of truck:

20ft container truck and vehicle longer than 11m require to bring-in loading ramp

16 ton truck with tail lift is recommended (~ length: 8.5m )



**AUDITORIUM**



**Total Seating: 596**

Stalls: 495

Balcony: 101

**PROSCENIUM**

Structural opening

Adjustable proscenium opening with header and tormentor

13.00 x 7.50m (W x H)

13.00 x 7.50m (W x H)

9.00 x 5.00m (W x H) Min.

13.00 x 7.50m (W x H) Max.

**STAGE WIDTH**

Centreline to stage right

Centreline to stage left

12.00m

13.70m

**STAGE DEPTH**

Rear of Proscenium to cyclorama on centreline 11.28m

Rear of Proscenium to forestage on centreline 1.60m

Rear of Proscenium to orchestra pit edge on centreline 4.70m

Forestage radius 11.65m

Forestage arc length 13.70m

**STAGE HEIGHT**

Clearance under grid 20.00m

Maximum bar flying height

Counterweight bar 19.20m

Motorised - house curtain, curtain bar 24 and 36 16.96m

Motorised - lighting bar 2, 5, 15, 29 and 41 17.69m

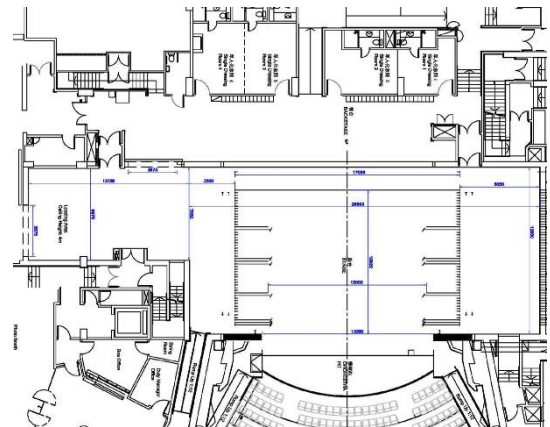
Motorised - lighting bar 50 7.20m

Motorised - side lighting bar SL1 and SR1 14.78m

Motorised - side bar SL2 and SR2 17.69m

Motorised - FM bar 1, 2, 3 9.59m

Above auditorium 1.00m



**FORESTAGE / ORCHESTRA PIT**

Curved forestage/pit lift area, suitable for 15 persons

Orchestra pit area

Depth

30.00m<sup>2</sup> approx.

3.00m Centre

1.10m Ends

Static load

500kg/m<sup>2</sup> SWL

Dynamic load

250kg/m<sup>2</sup> SWL

Pit setup provision with chairs, stools, music stands, and music lights

**STAGE FLOOR**

Flat black hardboard

750kg/m<sup>2</sup> SWL

Trapdoor - None

Equipped with footlight trough and dip sockets



**SIDE STAGE**

Stage right 2.50 x 12.65m (W x D)  
Stage left 4.20 x 12.65m (W x D)

**REAR STAGE**

None

**STORAGE SPACE**

Stage right 12.10 x 6.00m (W x D)

**CROSSOVER**

Corridor behind stage

**RIGGING**

**House Curtain** (Red) - motorised

Fly-in and out 10 Sec (Max.)  
Open and close 15 Sec (Max.)

**Rigging system**

Bar diameter 48.30mm

Stage bar - counterweight 41  
Bar 1 to 50 (except 2, 5, 15, 24, 29, 36, 41, 47 and 50)  
Length 15.00m (1m extend on both sides)  
Capacity 600kg SWL

Lighting bar - motorised 5  
Bar 2, 5, 15, 29 and 41 length 15.00m (1m extend on both sides)  
Capacity 650kg SWL

Bar 50 length 15.00m  
Capacity 450kg SWL

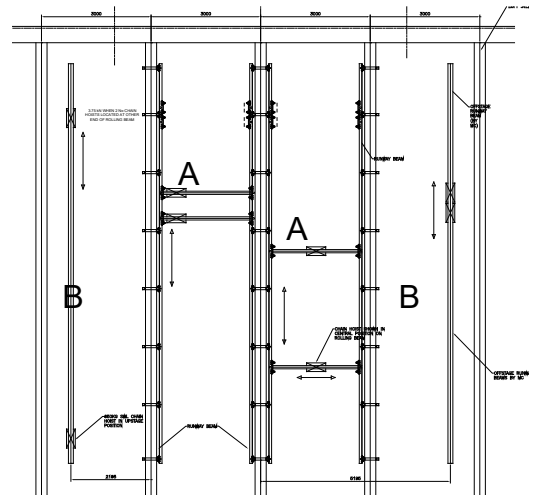
Curtain bar - motorised 2  
Bar 24 and 36 length 16.00m  
Capacity 400kg SWL

Side bar - motorised 4  
SL 1, SL 2, SR 1 and SR 2 length 9.50m  
Capacity 650kg SWL

Forestage bar - motorised 3  
FM 1, FM 2 and FM 3 length 15.00m  
Capacity 650kg SWL

Rolling beam above grid (A) 4  
Compartment 2  
Beam per compartment 2  
Hoist 4  
Hoist capacity 650kg SWL  
Low dead : 1.0m above stage  
\*Need field verification by the hirer

Offstage runway beam above grid (B) 2  
5.20m from centre line to SL /SR  
Hoist SL / SR 2 / 2  
Hoist capacity 650kg SWL  
Low dead : 1.0m above stage  
\*Need field verification by the hirer





Grid floor capacity	250kg/m <sup>2</sup> SWL
Loading gallery at grid capacity (SL)	250kg/m <sup>2</sup> SW
Fly gallery capacity of 2/F, 3/F and 4/F	
Stage left	450kg/m <sup>2</sup> SWL
Stage right	450kg/m <sup>2</sup> SWL
Crossover	250kg/m <sup>2</sup> SWL

**STAGE EQUIPMENT**

**Stage drapery**

Black masking	leg	12	flat	4.00 x 8.60m	(W x H)
	border	6	flat	16.70 x 4.00m	
		1	flat	14.80 x 1.50m	
	half tab	4	flat	9.60 x 8.60m	
	side masking	8	flat	3.00 x 8.45m	
		16	flat	3.00 x 9.67m	
Cyclorama		1	flat	17.00 x 9.00m	

**Orchestra Riser**

Wenger Trouper

Aluminum frame platform

Chair rails and guard rails available

No drilling or painting

2.40 x 1.20m (W x L)	203mm(H) x 4
	407mm(H) x 4
	610mm(H) x 4

**Choir riser** (3 or 4 steps)                      7                      Wenger Tourmaster

**Musician chair**    40                      Black

**Music stand**    50                      Black

**Conductor platform**    1

**Conductor music stand**    1

**Podium**    1

**Ceremony chair**    18                      Red

**Dancing Tile**

*for dance show only*      Black    7      15.00 x 2.00m (Main stage)  
(Please allow time to lay the tiles during booking time)

**Stage carpet**

*for Chinese opera only*      Green    2      13.00 x 4.00m

**Instrument**

Upright piano	1	Yamaha 1U
18" Chinese drum	1	
Timpani	1	ADAMS (23", 26", 29", 32") (Incur extra charge)

**Lifting Platform**

Genie AWP 25S	1	<i>operated by competent person only</i>
Genie AWP 36S	1	

**Stage weight**                      12.5kg                      45



**DRESSING ROOM**

Basement	<b>Band Room:</b> 6 persons
Ground level	<b>Room 1-4:</b> 1 person (per room)
	<b>Room 5-7:</b> 2 persons (per room)
First Level	<b>Room 8:</b> 6 persons
	<b>Room 9:</b> 4 persons
	<b>Room 10:</b> 6 persons
	<b>Room 11:</b> 10 persons
	<b>Room 12:</b> 8 persons

*Dressing rooms at ground level fitted with toilet and shower; and dressing rooms at first level fitted with public toilet and shower.*



**RUNNING WARDROBE**

1 washing machine and 1 dryer located at 1<sup>st</sup> floor.  
Iron, iron board (1 set) and steamer (1 pc) are available upon request.

**LIGHTING**

<b>Dimmer</b>	236 channels of ETC HD15 3kW and 24 channels of ETC HK15AF 3kW Dimmer room at 2 <sup>nd</sup> floor stage right			
<b>Control Board</b>	ETC Gio of 2048 outputs, with full back up control facilities, located in lighting control room at rear of Balcony			
<b>Houselights</b>	Dimmer controlled. Controlled independently or via lighting control board.			
<b>Circuit</b>	260 x 3kW production lighting circuits, fixed wiring type, circuits are terminated to 15A socket outlets to UK standard respectively on the production lighting boxes, distributed at various locations throughout the Stage and lighting bridges			
<b>DMX Socket</b>	DMX gateway 1 port ETC N31G-F (5-pin XLR female) distributed at various locations throughout the stage and lighting bridges			
<b>Additional Power</b>	<p><b>USR :</b> TP&amp;N MCCB board '200AUX' power feeding for 100A x 1, 63A x 3, 32A x 2 industrial 5 pin socket outlet</p> <p><b>Loading bay :</b> 63A TPN isolator along with 63A x 1 industrial 5 pin socket outlet</p> <p><b>Connection must be conducted by a local registered electrical worker.</b></p> <p><b>Hirer shall supply adequate circuit protective devices for all bring in electrical installation.</b></p> <p><b>13A wall-mounted socket outlets at UK standard are provided on the stage.</b></p>			
<b>Front of House Position</b>	<p>FOH Lighting bar FM 2, at forestage</p> <p>FOH Lighting bridge no.1, 16.1m throw to CS at 43 degree</p> <p>FOH Lighting bridge no.2, 20.3m throw to CS at 33 degree</p> <p>FOH Lighting bridge no.3, 23.7m throw to CS at 28 degree</p>			
<b>Profile</b>	2kW	Robert Juliat	710SX2 10-25	10
	750W	ETC	Source 4 Zoom 15-30	130
	750W	ETC	Source 4 Zoom 25-50	52
<b>LED Profile</b>	185W	ETC	ColorSource Spot 15-30	10
	185W	ETC	ColorSource Spot 25-50	14
<b>Fresnel</b>	1.2kW	Selecon	Rama 150 F 7-50	20
<b>LED Fresnel</b>	185W	ETC	ColorSource Spot Fresnel	28
<b>PC</b>	1.2kW	Selecon	Rama 150 PC 5-60	30
<b>Parcan</b>	1kW	Kupo	Par-64LB (CP 60)	24



	1kW	Kupo	Par-64LB (CP 61)	20	
	1kW	Kupo	Par-64LB (CP 62)	16	
<b>LED Cyc. Light</b>	334W	Chauvet	Ovation Cyc 3 FC	6	
<b>LED Ground Row</b>	334W	Chauvet	Ovation Cyc 3 FC	6	
<b>LED Automated Lighting</b>	1kW	Robe	DL7S	6	Fixed install at circle front
<b>LED Borderlight</b>	48Vdc	Chroma Q	Color Block 2 plus	10	
<b>LED Follow Spot</b>	440W	USHIO	SAI 500	2	
<b>Smoke Generator</b>		Look Solutions	Viper NT	2	
<b>LED Strobe Light</b>	360W	Philips	Showline Nitro 510	3	
<b>LED UV light</b>	360W	Altman	Spectra UV30	4	
<b>Gobo holder</b>		Gobo Holder	Gobo Holder	Gobo	Image
<b>Spotlight Applicable</b>		<u>Qty</u>	<u>Type</u>	<u>Size</u>	<u>Size</u>
ETC Source 4 Profile		20 / 35	A / B	100 / 86mm	68-75 / 65mm
<b>Other</b>	Side light tower		600 x 1850 x 860mm (WxHxD)	8	
	Tower equipment setup:		4 (top) 1kW ETC Source 4 15/50	1608mm*	
			3 1kW ETC Source 4 15/30	1168mm*	
			2 1kW ETC Source 4 15/50	728mm*	
			1 (bottom) 1kW ETC Source 4 15/30	288mm*	
	<b>* = Height of the equipment from to floor</b>				
	LED Music light			50	

Equipment availability does vary slightly according to equipment conditions and maintenance. Check with Technical Manager for any update.

Hirer will be provided with basic lighting only, from available hung equipment, if technical preparation time is less than 2 hours in the booking.

All brought-in “Electrical and Stage Lighting Equipment” to be used in LCSD PA venues, shall meet the requirements of “Code of Practice for Electricity (Wiring) Regulations”. Please contact the venue management for any electrical safety concern. Website reference:

[https://www.emsd.gov.hk/en/electricity\\_safety/index.html](https://www.emsd.gov.hk/en/electricity_safety/index.html)

### **SOUND**

<b>Sound system</b>	<b>Main System</b>	
Central cluster:	L-Acoustics A15i WIDE	3
Left & Right cluster:	L-Acoustics KIVA II	8 (on each side)
Subwoofer:	L-Acoustics SB15m	4 (on each side)
	<b>Fill and Effect System</b>	
Stage front:	L-Acoustics 5XT	6
Orchestra pit front:	L-Acoustics 5XT	4
Balcony delay fill:	L-Acoustics 5XT	4
Side fill and effect:	L-Acoustics X8	4
Ceiling fill and effect:	L-Acoustics X12	5
Surround:	L-Acoustics X8	12



<b>Main control Console</b>	DiGiCo Quantum 338, digital mixing console with 36 channels (Aux output x 10, Group output x 14, Matrix output x 12) in control room at rear of auditorium	
<b>Microphone Tie line</b>	Downstage left	6 Mic + 1 Multi (12 channels)
	Downstage right	6 Mic + 1 Multi (12 channels)
	Upstage left	4 Mic
	Upstage right	4 Mic
	Orchestra pit wall box	4 Mic + 2 Multi (12 channels)
	Orchestra pit desk	4 Mic
	Centre auditorium	1 Mic
	Rear auditorium	4 Multi (12 channels)
	Loading bay	4 Mic
<b>Accessory Electronics (Pre-aligned, not loose equipment)</b>	Lexicon MX400XL effect processor	1
<b>Microphone</b>	AKG 414	3
	AKG CK91 + SE300B	2
	AKG CK92 + SE300B	2
	AKG C747V11	2
	Crown PCC-160	4
	Shure Beta 57A	12
	Shure Beta 58A	12
	DPA 2011C	2
	DPA 4011	2
	DPA 4099	2
	Countryman I2HS10XLR	1
<b>Wireless Microphone</b>	Shure ADX1Lemo3-G54 (clip)	8
	Shure ADX2/K9B-G54 (hand-held)	8
	<b>Max. 8 units with a minimum booking of 2 sessions</b>	(Incur extra charge)
<b>Stage Monitor</b>	L-Acoustics X12	12
<b>CD</b>	Tascam SS-CDR250N compact disc players	2
<b>Mini-Disc</b>	Nil	
<b>Digital Media Player</b>	Oppo BDP-103	2
<b>DVD Recorder</b>	LG RH589H	2
<b>Multimedia Projector</b>	Panasonic PT-RQ35K (3-Chip DLP, 32000 luminous) (with Standard Zoom Lens ET-D75LE20 and Long Throw Zoom Lens ET-D75LE30)	1 (Incur extra charge)
<b>Computerised LED Surtitle System</b>	Horizontal LED Display Boards (incur extra charges) Default font color : White Two (2) Horizontal display boards fixedly installed on the left and right sides of proscenium.  Display English, Chinese or English and Chinese texts simultaneously. Size of LED board : 200cm x 100 cm (WxH) The system will display in four lines per page. Each line for maximum 13 Chinese words or approximate 19 English alphabets, include punctuation mark.	2



Surtitle input and stored in Microsoft® Word (\*.docx) or text (\*.txt) file format.

The control computer was set inside sound control room at the back of auditorium.  
Display on **ALL boards will be identical.**

LED board is set up within booking period when two sessions or more are booked. Setup time normally requires one hour.

### **COMMUNICATION**

**Stage manager control panel** at stage right with dual channel intercom system

**Intercom System** Dual channel intercom system with dual channels body-pack  
Single channel wireless intercom system

**Cue Light System** Cue light control panel located at prompt desk

**Paging and Show Replay System** Front-of-house paging/public address, backstage paging located at prompt desk

**Show Relay TV** High resolution fixed camera for stage house  
Standard resolution fixed conductor camera  
Standard resolution fixed laser camera for stage house  
9" HD TV displays at stage manager's desk  
32" LED TV displays at stage left and right  
23" LCD monitor for dressing rooms, production office and band room  
55" TV displays at G/F stall entrance, 1/F stall foyer, 2/F balcony foyer and VIP lounge

**Production Desk** Set at the centre of the stall upon request.

### **EMERGENCY FOH ANNOUNCEMENT SYSTEM**

UPS maintained FOH emergency announcement system with hand-held wired microphone.

**Prior to booking date, please confirm with Technical Manager for the availability of the equipment.  
All required equipment will be set-up during the booking sessions; please allow adequate time for equipment set-up before performance or rehearsal.**