



Leisure & Cultural Services Department
Performing Arts Division

TECHNICAL SUPPORT SECTION

KO SHAN THEATRE

Technical Data

Ko Shan Theatre – Theatre

AUDITORIUM

Ko Shan Theatre is a traditional proscenium theatre, but without a full fly tower, which limits its technical abilities. Primary use is for Chinese Opera and Chinese Dance. Secondary use if for Drama, Concerts and Assemblies.

Seating 1,031 in total, 916 seats and 6 wheelchair spaces are disposed in a wide Stalls fan with 115 seats in a shallow Balcony.

PROSCENIUM

Frame dimension 12.97 x 4.96m (W x H)
 False proscenium legs can be adjusted 12.00 x 5.00m (W x H) Min.

STAGE WIDTH

Centreline to stage right 8.48m
 Centreline to stage left 8.48m

STAGE DEPTH

Rear of Proscenium to cyclorama on centreline 11.59m
 Rear of Proscenium to cyclorama at sides 7.52m
 Rear of Proscenium to cyclorama surround bar on centreline 11.30m
 Rear of Proscenium to last full cross-stage bar 7.35m
 Rear of Proscenium to forestage on centreline 3.42m
 Forestage radius 13.00m
 Rear of Proscenium to orchestra pit edge on centreline 2.90m
 Orchestra pit radius 10.17m

STAGE HEIGHT

Clear under grid 7.00m
 Maximum bar flying height 6.30m
 Above Auditorium 1.00m

Rigging SYSTEM

House Curtain (Fly)	Variable speed electric		
Wiper Track	9 (Capacity 250kg)	27.50m	(Bar 8, 9, 13, 14, 19, 20, 24, 26)
		13.00m	(Bar A)
Cyclorama Curved Track	1 (Capacity 250kg)	17.65m	(Bar 34)
Motor Bars	5 (Capacity 250kg)	16.00m	(Bar 7, 12, 18, 23)
		14.00m	(Bar 28)
	2 (Capacity 500kg)	11.00m	(Bar B, C)
Fix overlap curtain set	3	16.00m	(Bar 11, 16, 27)
Electrics Bars	5 (Capacity 500kg)	15.50m	(Bar 3, 10, 21)
		10.00m	(Bar 29, 30)
Hemp Set (For Cloth Drop Only)	8	16.10m	(Bar 6, 15, 17, 22, 25)
		11.50m	(Bar 31)
		10.10m	(Bar 32, 33)

STAGE

Flat black surface hardboard
 Trapdoors - None
 Footlight trough and Dip sockets

SIDE STAGE

Stage Right – 4.69 x 4.92 m (W x D)

Stage Left – 6.09 x 4.82 m (W x D)

REAR STAGE

Not Available

STORAGE SPACE

Limited Space off stage

GET-IN

Steel doors Stage Left - 2.73 x 4.56m (W x H) at ground level

CROSSOVER

Corridor behind stage

ORCHESTRA PIT

Centre pit lift	8.40m ²
Lift and infill area	14.06m ²
Under stage area	19.44m ²
Depth	2.22m

GENERAL SET-UP

The Ko Shan Theatre 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.

STAGE EQUIPMENT

Black masking – All flat	
8 legs	4.10 x 6.50m (W x H)
4 legs	3.00 x 6.50m
2 legs	2.40 x 6.50m
3 borders	19.00 x 1.80m
1 borders	17.80 x 1.50m
6 half tabs - As 1 st , 2 nd and 3 rd mid-curtain	8.50 x 6.80m
Wrap round Black cyclorama	19.00 x 6.50 m
Rear Projection Screens	15.00 x 6.80 m
Tab tracks	
Stage Weights	31
Black Harlequin dance flooring	1 set
Pale green carpet	2 (13.00m x 3.50m)
Conductor Platform	1
Conductor Music Stand	1
Orchestra risers –2.44 x 1.22m (W x D)	4 of each at 0.20, 0.40m & 0.61m (H)
Choir risers – 3 or 4 steps	6 units
Music Stands	40
Musician Chair	71
Podium	1
Red Ceremony Chair	12
Stool	6
Cougar Lift, Ladders	1
Instruments	1 Kawai Upright Piano
	1 18" Chinese Folk Timpani

DRESSING ROOMS

Level 1 2 for 4 (Room 1, Room 1a)
 Level 2 2 for 4 (Room 2 & Room 3)
 1 for 12 (Room 4)
 Level 3 2 for 12 (Room 5 & Room 6)
 All single rooms at Level 2 and 3 fitted with private toilet and shower.
 Quick-change facilities downstage right and left.
 Running wardrobe – None, but 1 Iron, 1 steamer and 1 board available

LIGHTING

Console	Strand 520i control, rear of stalls control room.				
Dimmers	192 x 2.4kW				
Profiles	750W	ETC	Source 4 15/30	72	3 Spare
	750W	ETC	Source 4 19	1	1 Spare
	750W	ETC	Source 4 10	18	
	650W	CCT	Minuette 35/42	1	19 Spare
Pebble Convex	650W	CCT	Minuette 10/59	12	
Fresnels	2kW	Strand	Patt 828	4	6 Spare
	1.2kW	Strand	Cantata F	40	
	1kW	Strand	Harmony F	38	20 Spare
	650W	CCT	Minuette 18/57F	24	38 Spare
Beamlights	1kW		Par64 CP61	2	22 Spare
Cyclorama	800W	Selecon	Cyc 4	6	Top
Groundrow	625W	Strand	Pallas 4	6	Bottom
Follow Spots	2kW	Xenon	Xebex	2	Auditorium Perch
Colour Scroller		Strand	Colorcall	12	Auditorium Bridge No.2
Strobe			Ice High Power	2	
		Anytronic	DeathStar		2 Spare
UV		Griven	GR 101		8 Spare
Smoke Machine		Lightwave	F 100	2	
Effect Lantern	750W	ETC	Source 4 25/50	4	
		DHA	Animation Disc-Fire	1	1 Spare
		DHA	Animation Disc-Water	1	1 Spare
		DHA	Animation Disc-Cloud	1	
		DHA	Animation Disc-Rain	1	1 Spare
Gobo Rotator					2 Spare
Light Tower			712x558x2097 mm	2	6 Spare

Music Light	25W			16	20 Spare
	5W			19	
Slide projector	500 W	Xenon	35mm	1	85-150mm, 50mm,
	400 W	Simda	35mm	2	35mm, 25mm lenses
	250 W	Kodak	35mm	2	available
Overhead projector	250 W			2	
Additional power	one 160A x 3phase, one 60A x 3phase, one 160A x single phase, one 60A x single phase				

Hirer will be provided with simple white lighting only, from available hung equipment, if only booking 4 hours session for the programme.

Lighting designers should check with the Resident Stage Manager for current equipment details and list. Please refer to the light plan for standard rigging. All other lighting request should be set and reset within the booking period.

SOUND

Front of House	Center-up proscenium: Meyer UPA-2P	3
Speaker System	Sides of Proscenium: Meyer CQ-1 stereo	4
	Side of Proscenium: Meyer UPS-1P	2
	Front Fill at apron: Meyer UPM-2P	9
	Balcony Seats for delay: Meyer UPA-2P	3
	Sub Woofer: Meyer M3D-Sub	2
Mixing Console	Midas Heritage 2000 48 channels live mixing console	
Processing Equipment	Klark Teknik DN-500 compressor/ limiter/ expander	4
	Presonus ACP-88 Compressor/ Noise Gate	1
	Lexicon 300L	1
	Yamaha SPX-990	1
	Yamaha SPX-900	1
	Yamaha REV-5 digital effect processor	1
	Digitech VWS-EX Harmonizer	1
	Aphex Type III aural exciter	1
	Klark Teknik DN-7204	4
	Klark Teknik DN-928 Digital Audio Delay Line	1
	Roland SN-550 digital noise eliminator	2
	Shure DFR-11EQ feedback stabilizer	2
	T.C. Electronic Finalizer Express	1
Microphones	AKG C-414 B-ULS	2
	AKG C-621E	2
	AKG C-411	2
	AKG C-418	4
	AKG C-409	4
	AKG C-419	8
	Audio Technica ATM-33a	4
Audio Technica ATM-73a	2	

	B&K 4007	2
	Countryman E-6	4
	Crown PCC-160	5
	Crown PZM-30D	2
	EV RE-27N/D	1
	EV N/D408B	4
	Neumann KM-184	4
	Neumann KM-185	2
	Neumann KMR-81I	2
	Neumann KMR-821	5
	Sanken COS-11BK	2
	Sennheiser 421-II	4
	Sennheiser MKE-2	2
	Shure Beta 57	4
	Shure Beta 57A	4
	Shure SM-58S	2
	Shure Beta 58	8
	Shure Beta 87	2
	Shure Beta 91	1
	Sennheiser Professional series UHF wireless microphones	10
Stage Monitoring System	Nexo PS-10	20
	Nexo LS-500	2
Tape	Tascam 122 MK III audio cassette recorders	2
CD	Denon DN-650F compact disc players	2
Mini-Disc	Tascam MD-801R mini-disc recorders	2
Equipment for Minor Venues & Portable Use	Karaoke System with 2 LD player; 1 VCD player; 1 DVD player; and Key change machine	1 set
	Portable Sound System with compact disc / audio cassette player; 1 wireless microphone; 2 wired microphones and Altec M100-T loudspeakers	2 sets
	Bose 802 loudspeakers with 2 channels power amplifier	4
	DDA CS-3 24ch mixing console	1
	Soundcraft Spirit Folio FX-16 16ch mixing console	1
	Sennheiser Evolution 100 series wireless microphone	4 sets
	Sony CDP-203ES CD player	1
	Sony MXD-D1 Mini-disc / Compact-disc combined deck	1
	Denon DN-981F MD player	1
	Denon DN-045R Mini-disc Replicator	1
Multi-media Equipment	Computer Controlled subtitles projection system	1
	Yokogawa D-2100X multi-media projectors	2
	Yokogawa MC-8HC Visualizer	1
	Extron IN-1404XT Video Scaler/Switcher	1
	12' x 12' motorized front projection screen	1
	Sony KV-21VM3MT 21" television/ video cassette recorder	2

