

RECITAL HALL

Technical Information

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Last updated:2021/05/13

0 General Information

0-1 National Kaohsiung Center for the Arts (WEIWUYING)

CENTER FOR THE ARTS, ARTS FOR THE PEOPLE, National Kaohsiung Center for the Arts will become one of the important theatre complexes of the international art field. It includes four performance blocks, the 2,236 seat Opera House, the 1981 seat Concert Hall, the 1210 seat Play House and the 434 seat Recital Hall.



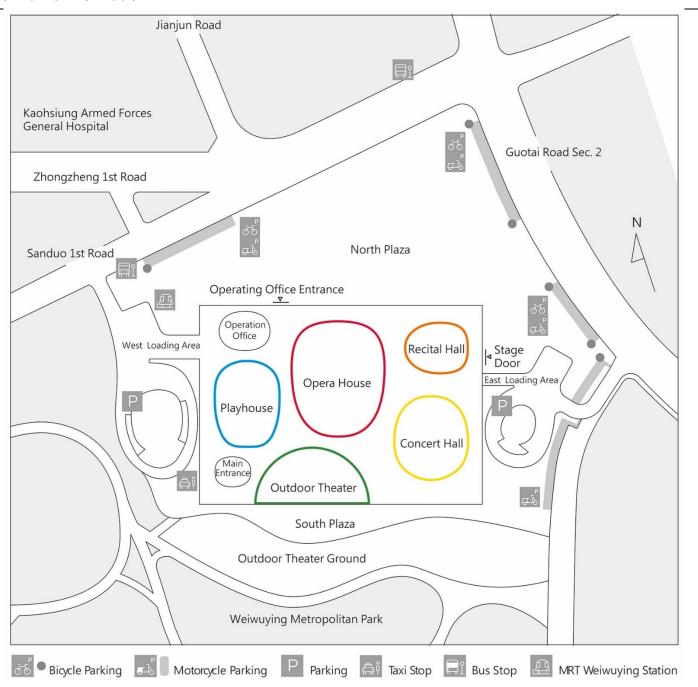
0-2 Recital Hall

The Recital Hall is mainly for chamber music, solo recitals, or other smaller performances. The sound-absorption can be adjusted to meet the needs with diverse types of performances, providing the most optimal acoustic effect.

The design is a variation of the traditional shoebox style, where a short partition wall is erected along the center line of the seating area to convert the Recital Hall into a vibrantly asymmetrical shoebox, while also providing reflection of direct sounds for the front seating area. To meet the needs of various types of performances, the sound-absorption value can be adjusted accordingly in the Recital Hall. An entire circle of sound-absorbing drapery behind the perforated wooden panels surrounds the upper half of the Recital Hall. The size of the drapery used is determined by performance genres so as to offer a superb acoustic effect.



0-3 Traffic Information



0-4 Contact Information

National Kaohsiung Center for the Arts (Weiwuying)

No.1, Sanduo 1st Rd., Fengshan Dist., Kaohsiung City 83075, Taiwan

+886 7-262-6666

service@npac-weiwuying.org

0-5 Stage door

Ground floor access is from the north and east side of building. Enter from Operating office entrance on Sanduo 1st Road or Stage Door on Guotai Road.

Basement Level 1 access is from Sanduo 1st Road entrance for Opera House and Playhouse, Guotai Road entrance for Concert Hall and Recital Hall.

Working pass will be required for entry.

0-6 Auditorium / Seating

2021/05/13

Seating Capacity: 434 seats

House Seats: 407 seats (1F/207 Seats \ 2F/200 Seats)

Wheelchairs Seats: 6 seats

Companion Seats: 6 seats

Control Area Seats: 8 seats

Reserved Seats for Tech Table: 4 seats

Reserved Seats for FOH: 3 seats

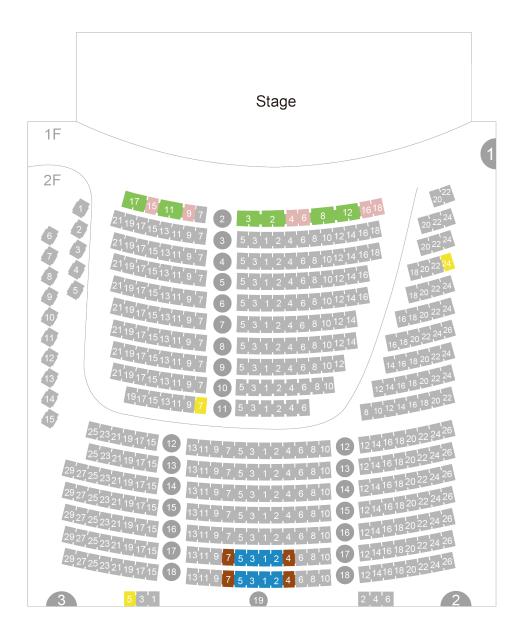


Figure 0.1- Recital Hall Seating plan

Set Up Equipment Recommended Seat

Set Up Equipment Seat	Reserved Seat	Notes
1st Floor 11 Row Seat 1	1st Floor 10 Row Seat 1 1st Floor 11 Row Seat 2 \ 3	For Photo Shooting & Video Shooting
2nd Floor 18 Row Seat 1	2nd Floor 17 Row Seat 1 2nd Floor 18 Row Seat 2 \ 3	For Photo Shooting & Video Shooting 18 rows of rear walkways need to be kept open
V Row Seat 1	V Row Seat 2 · 3 · 4 · 5 · 6 · 7	For Photo Shooting & Video Shooting
Set Up Control Area Seat	Reserved Seat	Notes
1st Floor 10 Row Seat 1 · 2 · 3 · 5 1 st Floor 11 Row Seat 1 · 2 · 3 · 5		18 rows of rear walkways need to be kept
2nd Floor 17 Row Seat 1 \ 2 \ 3 \ 5 2nd Floor 18 Row Seat 1 \ 2 \ 3 \ 5		open

0-7 Plan

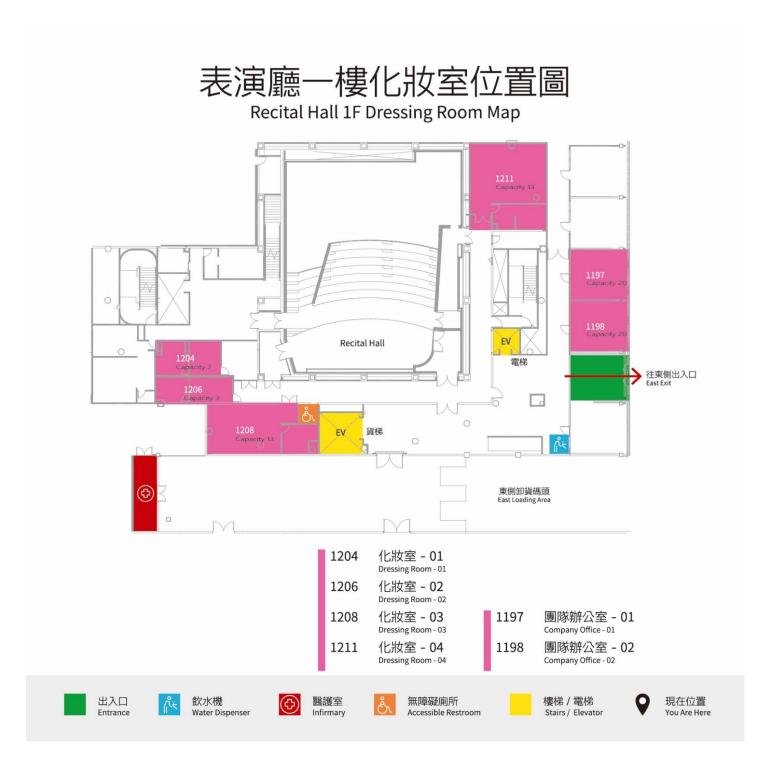


Figure 0.2- Recital Hall Plan

0-8 Section

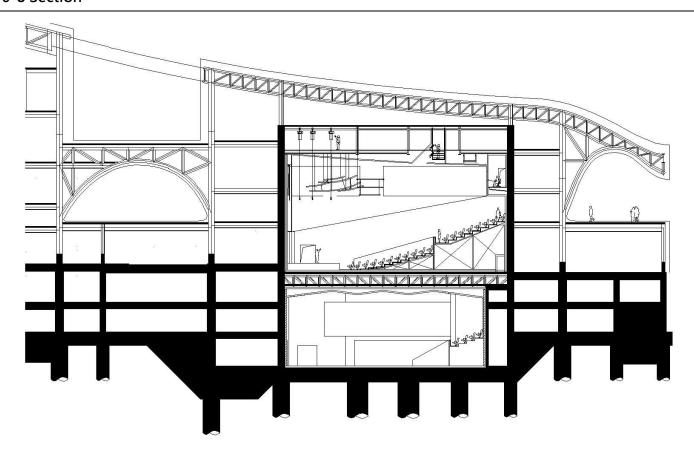


Figure 0.3- Recital Hall Section

1 Stage

1-1 Stage

15.6m (Width) x 5.4m (depth) x 0.7m (height from auditorium floor to stage level) Sound reflect absorbing drape Fixed acoustic panel, 8.5m above the stage level

5.4m 15.6m

Figure 1.1-Stage Plan

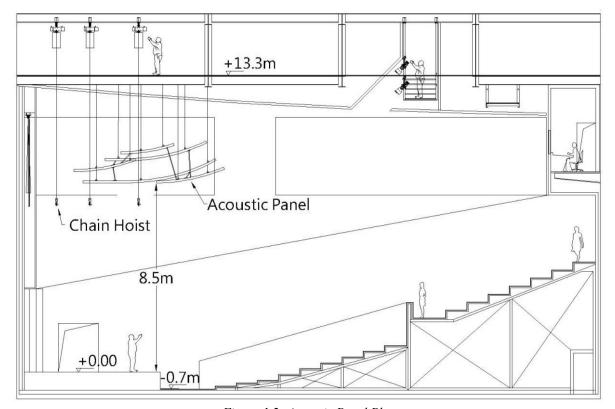


Figure 1.2- Acoustic Panel Plan

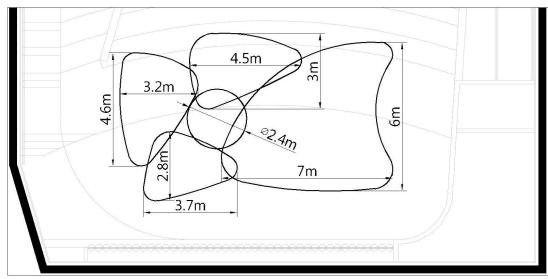


Figure 1.3- Acoustic Panel Plan

1-2 Hoisting

1-2-1 Chain hoist (point load 1000kg, fixed speed: 9.6m/min)

Above Stage, 9 sets, operation length 15m, Movecat PLUS lite chain hoists.

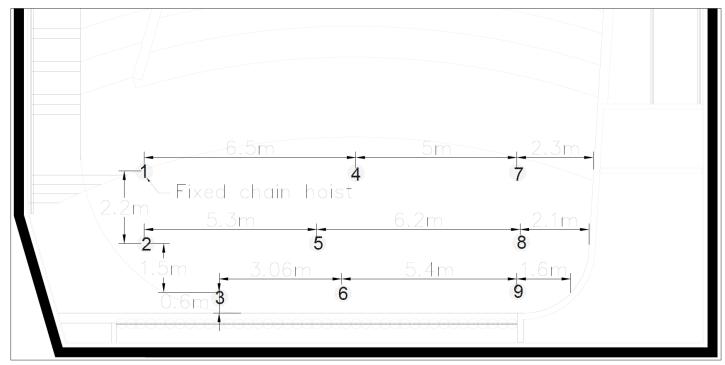


Figure 1.4 - Stage Hoisting plan

1-2-2 Control System

The chain hoists control system is located in the grid area and can be connected to both side of stage, through Movecat MRC ID remote controller operates in the stage area.

1-2-3 Trusses

Item	Quantity	Dimension	Paid item
EUROTRUSS HD33	3	0.29m(equilateral triangle length) x 0.25m(Height) x 4 m(length)	*
(Triangle)	19	0.29m(equilateral triangle length) x 0.25m(Height) x 3 m(length)	*

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

2 Lighting

2–1 Lighting instrument

Important : All lighting data is on network system

Item	Position	Model	Specifications	Quantity	Frame size	Note	Paid Item
Lighting	Control Booth	GrandMA 2 Ultra Light		1			
Console	Control Booth	Grandwa z Oltra Eight					
Dimmer	Dimmer Room	220V	120ch				
System	Diffiller Room	State Automation Solution	3kW/Circuit	12001	l		
	Catwalk	Selecon SPX 14°	220V/800W	16	15.8x15.8cm		
	Catwark	Selecon SPX 15°-35°	2200/80000	8	13.6X13.6CIII		
	SR Lighting	Selecon SPX 14°	220V/800W	4			
	BOX	Selecon SPX 19°	4 15.	15.8x15.8cm			
Ellipsoidal	SL Lighting	Selecon SPX 14°	220V/800W	4	15.8x15.8cm		
Reflector	BOX	Selecon SPX 19°	2207/80077	4			
Spotlight	Stage Top Light	ETC Source Four PAR MCM	220V/575W	10			
		Selecon SPX 14°		10			
		Selecon SPX 19°	220V/800W	30	15.8x15.8cm		
		Selecon SPX 15°-35°		10			
		ETC Source Four 50°	220V/750W	10	15.9x15.9cm		
2KW Fresnel							
Spotlight 8"	Storage	Selecon Arena Theatre 8" Fresnel 7°-60°	220V/2kW	20	24.5x24.5cm		
Parabolic Aluminized Reflector Spotlight		PAR 64-Kupo PL-64LB	220V/1kW	30	25.4x25.4cm	Lamp: Wx8 Mx14 Nx8	
Long Throw Follow Spot	Catwalk	Lycian M2 Model 2040 1.2	220V/1.2kW	1			
Strip Light		Selecon PL TR2 RGB 18 Striplights	110-220V/ 2.5A-1.3A 280W	7		If Strip manual needed, please contact TC Team.	*
Follow Spot Operator			Operator/ 4 hour	1			*

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

2–2 Accessories

Item	Specifications	Size	Quantity
Barn Door	2kW Fresnel		10
Iris	For Selecon Ellipsoidal Reflector Spotlight		10
Gobo Holder	For Selecon Ellipsoidal Reflector Spotlight	B Size	20
Gobo Holdel	For ETC Source Four Ellipsoidal Reflector Spotlight	A Size	10
Power Distribution Box	8CIR CEE Form Female Plug		9
		5m	4
Multi-Cable	16pin Multi-Cable	10m	2
	Harting Connector	15m	2
Ex-Cable CEE16A	Ex-Cable CEE16A	1.5m	30
		2m	29
		3m	20
		5m	15
		10m	9
		15m	10
Adapter Cable	CEE 16A(M) To Stage-Pin(F)		10
MA2 2 Port Node	OH-2port-2 192, 188, 0, 32 MA 2PORT NODE PRO		1

2-3 Lighting Plan

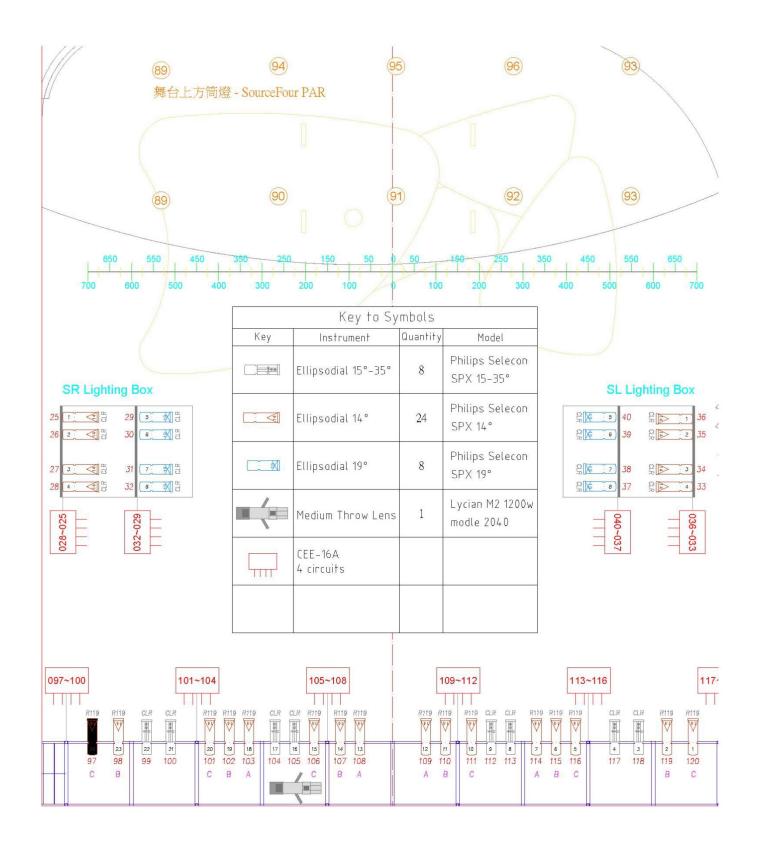


Figure 2.1–Lighting Plan

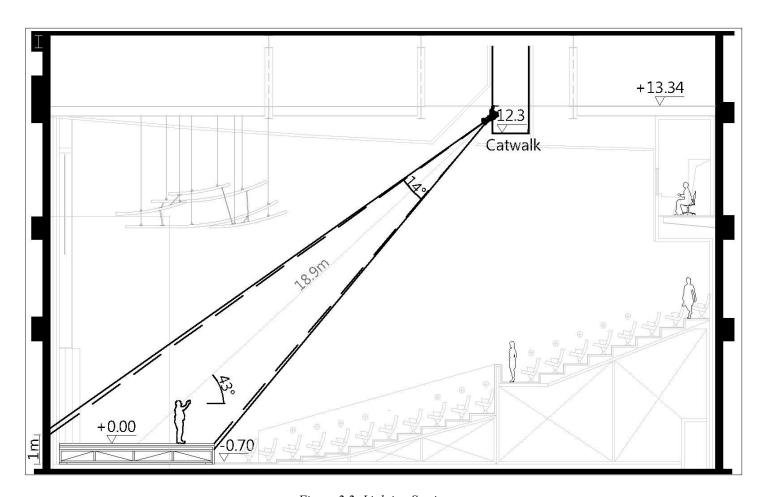
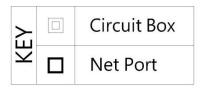


Figure 2.2- Lighting Section

2–4 Lighting Circuit

2-4-1 Stage area

Area and Position	Dimmer Circuit No.	Load	Network Circuit No.
Stage/L	001 ~ 008	3kW	LN01~LN02
Stage/R	009 ~ 016	3kW	LN03~LN04
Up Stage	017 ~ 024	3kW	LN05~LN06
Side Stage/L			LN07~LN10
Control Booth			LN11~LN18



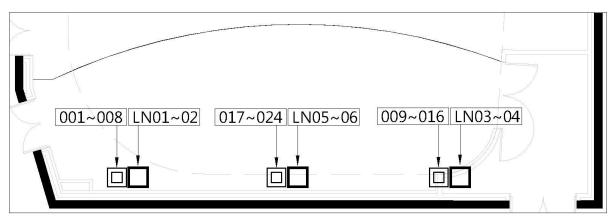


Figure 2.3.1- Stage Area Lighting Circuit Layout

2-4-2 Front of House

Area and Position	Dimmer Circuit No.	Load	Network Circuit No.
Lighting Roy/D	025~ 028	2144	LN19~LN20
Lighting Box/R	029 ~ 032	3kW	LIN19~LIN20
Lighting Roy/I	033 ~ 036	3kW	LN21~LN22
Lighting Box/L	037 ~ 040	SKVV	LIVZ1~LIVZZ
	041 ~ 048	3kW	LN23~LN24
	049 ~ 056	3kW	INDE INDE
	057 ~ 064	SKVV	LN25~LN26
Stage Grid Area	065 ~ 072	3kW	LN27~LN28
	073 ~ 080	3kW	LN29~LN30
	081 ~ 088	3kW	LN31~LN32
	089 ~ 096	3kW	LN33~LN34
	(For Stage Top Light)	SKVV	LIN33~LIN34
	097 ~ 100	3kW	
	101 ~ 104	3kW	
Catually	105 ~ 108	3kW	LN35~LN36
Catwalk	109 ~ 112	3kW	LINOO~LINOO
	113 ~ 116	3kW	
	117 ~ 120	3kW	

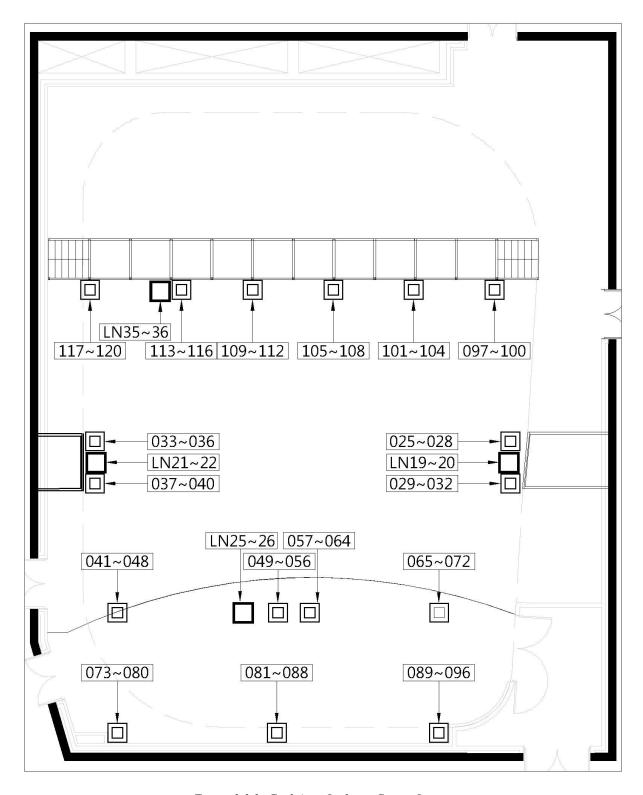


Figure 2.3.2- Grid Area-Lighting Circuit Layout

2-5 Portable Lift

Brand and Model: Snorkel UL-25 (AC Power Supply) Maximum height: 7.6m Maximum weight: 159kg Quantity: 1

2-6 Additional Power Supply

Function	Position	Specifications	Quantity
Stage		3 ∮ 4W+G 380V/220V/60Hz (CEE 125A/3P+N+E)	1/1
Light	Up Stage Left / Stage Right Waiting Area	3 ∮ 4W+G 208V/120V/60Hz (Camlock 250A)	1/1
Sound		3 ∮ 4W+G 208V/120V/60Hz (Camlock 50A)	1/1



Figure 2.4 - Additional Power Supply

2-7 Working Light / House Light / Blackout

Working Light

Work lights provided white and blue light mode, and the control switch is located on the stage manager's Desk. Lighting area: Side stage entrance, Lighting Box, Grid area and Cat walk.

House Light

Auditorium lights consists houselights and step lights, which can be separately controlled and dimmed. The control panel is located on the stage manager's Desk and lighting control room.

Blackout

In accordance with government Fire Services Act, there are many of emergency lights in the venue. We cannot extinguish the emergency lighting for any performance, there will be the minimal lighting levels in the auditorium and backstage areas.

3 Audio/Video Systems

3-1 Audio Facilities

Item	Quantity	Brand-and Model	Paid Item
Digital speaker	4	Renkus-Heinz IC 8RII	
12" Active stage monitor speakers	4	Renkus-Heinz PN121M/12	
6.5" Active stage monitor speakers	4	Renkus-Heinz PN61	*
2CH Equalizer	2	XTA GQ600	*
AD/DA, I/O Digital I/O Fiber Module	2	Studer D21M	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-2 Control Room

Item	Quantity	Brand-and Model	Paid Item
Digital mixer	1	Studer Vista 5 M3/32	
Digital I/O Fiber Module	1	Studer D21m	
CD player	1	Tascam CD-500B	*
CD-R recorder / player	1	Tascam CD-RW 901 MKⅡ	*
Multi-circuit recording equipment	1	Joeco BBR1D+2.5" USB 1TB HD	*
Dual track Hard disk recorder	1	Tascam DA 3000	*
Active monitor speakers	2	Dynaudio BM12 MkⅢ	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3–3 Stage Manager's Desk

The stage manager's Desk is equipped with a near-field monitor (Dynaudio BM compact MkIII), screen monitor and intercom equipments.

3-4 Microphone

Item	Quantity	Brand-and Model.	Paid Item
Dynamic microphone	2	Audio Technica AE4100	*
Dynamic microphone	4	Audio Technica ATM250	*
Condenser microphone	2	Audio Technica AE5400	*
Cardioid Condenser microphone	4	Audio Technica AT4021	*
Cardioid Condenser Boundary Microphone	2	Audio Technica U851R	*
Stage reception Microphone	2	DPA 4017B / DPA UA0836 Holder	
Hypercardioid Condenser microphone	4	AKG CK-63-ULS+C480B	*
Cardioid condenser microphone	4	AKG CK-61-ULS+C480B	*
Wireless microphone	2	Sennheiser SKM500G3+MME865	*
Mini wireless microphone	6	Sennheiser SK500G3+MKE2	*
Single channel wireless microphone receiver	8	Sennheiser EW500G3	
wireless microphone wave antenna	2	Sennheiser AD3700	
wave antenna distributor	3	Sennheiser ASA1	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-5 Communications

Item	Quantity	Brand-and Model	Paid Item
Intercom host machine	1	Clear-Com Eclipse HX-Delta	
System interface	1	Clear-Com Helixnet HMS-4	
Double circuit intercom	3	Clear-Com Helixnet HBP-2X	
Fixed intercom microphone/ speak	1	Clear-Com V12PDXY 110/340	
		Clear-Com V12PDDXY 110 / 340	
Single head receiver microphone	3	Clear-Com CC-300	
Double head receiver microphone	2	Clear-Com CC-400	
Telephone intercom	2	Clear-Com HS-6	
Digital Wireless Intercom set	2	1. Portable wireless sub-station / Clear-Com FS-BP	*
-		2. Single-ear headset / Clear-Com CC-300	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-6 Locations of Communications

Item Number	Floor	Location
1	1F	stage right entrance
2		stage right entrance
3		FOH Auditorium chair below (Row1-3,11)
4		Loading Dock
5		Recording studio
6		Personal makeup room 1
7		Personal makeup room 2
8	2F	Control room
9		Control room
10	3F	Catwalk

3-7 Stage Cameras and Video Surveillance Systems

Stage monitors are installed in right and left wing stage entrance, first, second, and third floor lobby, master and secondary control room, dressing rooms and green rooms.

Item Quantity		Brand-and Model	Paid Item
Camera(2/3 inch 3CCD)	1	Panasonic AW-HE870	
		Panasonic LZ20M85G	
Remote control	1	Panasonic AW-RP50	
Switcher	1	Panasonic AW-RP120	
Video recording	Show	Fixed camera for stage panoramic view recording, only suitable for archived copy.	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-8 Paging Systems

Backstage Paging Systems

There are four venues individually Backstage Paging Systems in National Kaohsiung Center for the Arts. For Recital Hall paging available to all dressing rooms, green rooms and passage, it can also available paging to separately 3 zones. The Paging and Program position is located on the stage manager's console.

Zone 1: 1203 Green Room \ 1204 Dressing Room-01 \ 1206 Dressing Room-02 \ 1208 Dressing Room-03 \ 1211 Dressing Room-04

Zone 2: Passage 1202

Zone 3: 1197 Company office -01 \ 1198 Company office -02

4 Backstage Facilities

4-1 Dressing Rooms and Green Rooms

All dressing rooms and green rooms are on the first floor.

No.	Room No.	Name	Capacity	Notes
1	1197	Company office 01	20	Includes table and chairs
2	1198	Company office 02	20	Includes table and chairs
3	1203	Green room	3	Includes dressing mirror, table and chairs.
4	1204	Dressing Room 01	2	Includes mirror, table and chairs, toilet and shower
5	1206	Dressing Room 02	3	Includes mirror, table and chairs, toilet and shower
6	1208	Dressing Room 03	13	Includes upright piano, mirror, table and chairs, toilet and shower
7	1211	Dressing Room 04	13	Includes mirror, table and chairs, toilet and shower

4-2 Orchestra Facilities

No.	Item	Quantity		Notes
1	Chair	150	*	
2	Ensemble stool	18	*	
3	Conductor' s chair	1	*	
4	Music stand	140	*	
5	Music stand Tray	10	*	
6	Music stand light	60	*	White light, two brightness mode
7	Conductor's podium	1	*	WENGER
				Double podium / Base podium:1.09 x 0.97 x 0.15 m
				Double podium / Upper podium:0.81 x 0.97 x 0.15 m
				Single podium :1.2 x 1.15 x 0.25 m
8	Conductor' s stand	1	*	
9	Percussion table stand	8	*	
10	Endpin stopper	20	*	
11	Platform	30	*	Large L183cm*W138cm*H22cm*10
				Medium L183cm*W92cm*H22cm*10
				Small L183cm*W46cm*H22cm*10
12	Acoustic shield	5	*	
	Resonance Podium for Violin 100*60*15(cm)	8	*	
	Resonance Podium for Violin 100*60*20(cm)	8	*	
13	Resonance Podium for Cello 130*60*15(cm)	4	*	
13	Resonance Podium for Cello 130*60*20(cm)	4	*	
	Solo Musician's Podium 175*100*20(cm)	1	*	
	Solo Musician's Podium 115*110*15(cm)	1	*	

Items with * mark are shared with Concert Hall.

4–3 Pianos (shared between four *venues*)

No.	Item	Brand	Model Number	Quantity	Notes
1	Model-D	Steinway & Sons	D-274	3	*
	Concert grand				
2	Concert grand	FAZIOLI	F308	1	*
3	Grand Piano	YAMAHA	C7XPE	1	*
4	Grand Piano	KAWAI	SK-6L	1	*
5	Celesta	Schiendmayer	5 ½ Octave Studio model	1	*
6	Harpsichord	J.C.NEUPERT	Hemsch	1	*
7	Upright Piano	YAMAHA	U3	1	*

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts. **Pianos shared with four venues, booking in advance is required.

The piano should be tuned by WEIWUYING's contracted piano technician. Piano hire fees do not include tuning cost.

4-4 Loading Dock

4-4-1 East Dock

Recital Hall and Concert Hall use the East Dock for loading and unloading. The dock is equipped with two hydraulic dock leveler that can be adjusted according to the required height.

Dock Dimension

Dimension: 8.7m

Clearance: 4.3 m Height from floor to top

3.8m height from dock to grid area (Truck height limit 4.2m)

Height from dock to floor: 0.98m

Stage entrance: 1.95m (width) x 2.2m (height)

4-4-2 Handling equipment

1.5mt Stand-Up Automatic Electric Forklift x1 3mt Manual Hydraulic Pallet Jack x1

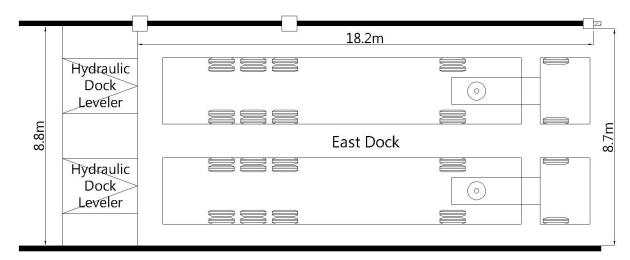


Figure 4.1- East Loading Dock Plan

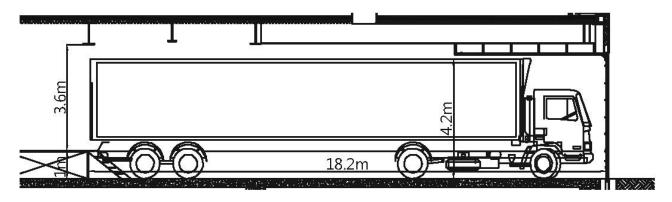


Figure 4.2- East Loading Dock Section

4-4-3 Loading Flow

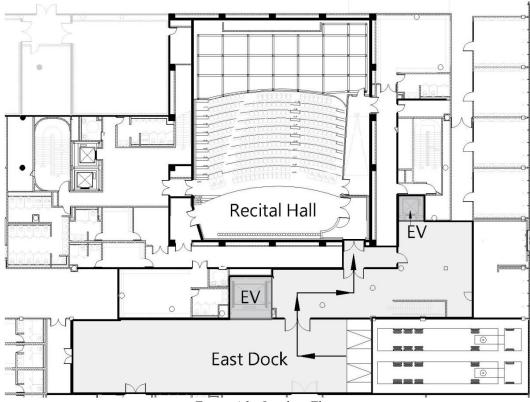


Figure 4.3 - Loading Flow

4-4-4 Hydraulic Dock Leveler

Capacity: 22.6mt

Area: 198cm (width) x 221.9cm (length)

Elevation: +/- 30.5cm Quantity: 2 on east dock

4-5 Other Facilities

4-5-1 Rehearsal Rooms

There is no rehearsal studio dedicated to the Playhouse. Additional rehearsal space is limited across the WeiWuYing. There are 13 different function and accommodated rehearsal studios, these available for hire between four major theatres. Requests should be discussed well in advance to determine availability. The hire fees please refer to the rate tables of National Kaohsiung Center for the Arts.

Room No.	Name	Dimension (Length x Width x Height / m)	Notes	
1171	Rehearsal Studio-01 (Opera House rehearsal	16.4x12.3x10.4	Grand Piano ,Wooden floor covered black color dance floor , Wall mount glassless mirrors x 1 side Capacity : 110	
	room)	Subsidiary space 6.9x5.3x3		
1182	Rehearsal Studio-02	11.4x10.8x3.8	Wooden floor covered gray color dance floor , Sound absorption wall x 2 side ,Wall mount glassless mirrors x 2 side Capacity: 50	
1184	Rehearsal Studio-03	11.1x10.8x4	 Grand Piano , Wooden floor covered gray color dance floor , Sound absorption wall x 2 side , Wall mount glassless mirrors x 2 side Capacity: 50 	
1186	Rehearsal Studio-04	17.5x12.1x3.9	1. Grand Piano ,Wooden floor ,black color dance floor , Wall mount glassless mirrors x 2 side ,Fixed Ballet barre on the single sided wall mirror x 2 2. Capacity: 110	
		Subsidiary space 6.6×8.8 ×3	Rehearsal Studio-04 use only Green Room-01(With dressing room)	
1192	Rehearsal Studio-05	19.3x12.2x3.9	 Grand Piano , Wooden floor , black color dance floor , Wall mount glassless mirrors x 2 side , Fixed Ballet barre on the single sided wall mirror x 2 Capacity: 110 	
		Subsidiary space 6.6×8.8 ×3	Rehearsal Studio-05 use only Green Room-02(With dressing room)	
B1111	Rehearsal Studio-06	8x7.4x2.3	 Upright piano ,Chair , Music stand ,Wooden floor , Sound absorption wall Capacity : 25 	
B1112	Rehearsal Studio-07	5.2x4.4x2.3	1 Chair, Music stand, Wooden floor, Sound absorption wall 2 Capacity: 10	
B1113	Rehearsal Studio-08	7.2x5x2.7	Chair , Music stand , Wooden floor , Sound absorption wall Capacity: 15	
B1114	Rehearsal Studio-09	5.2x3.7x2.7	Chair , Music stand , Wooden floor , Sound absorption wall Capacity : 10	
B1115	Rehearsal Studio-10	5.2x4.1x2.7	 Chair , Music stand , Wooden floor, Sound absorption wall Capacity : 10 	
B1116	Rehearsal Studio-11	5.2 x 4.1 x2.7	 Chair , Music stand, Wooden floor , Sound absorption wall Capacity : 10 	
B304	Chorus Rehearsal Room	15.9x9.9x8.8	 Grand Piano ,Chair , Ensemble stool ,Wooden floor , Sound absorption curtain Capacity : 80 	
B313	Orchestra Studio	18.7x14.3x7.8	fixed auditorium < 84seats > ,Grand Piano, Chair, Ensemble stool , Wooden floor, Sound absorption curtain Capacity : 200	

4-5-2 Carpentry Shop / Costume Shop / Laundry Room

National Kaohsiung Center for the Arts is equipped with basic production facilities, include Carpentry Shop, Costume Shop, and laundry rooms. Those for hire between four major theatres. The hire fees please refer to the rate tables of National Kaohsiung Center for the Arts.

Room	Name	Dimension	Notes	
No.		(Length x Width x Height / m)		
1002	Carpentry Shop	11.9×19.7×3	Basic wood crafts and electrical tools	
1165	Costume Shop-01	5.9×10.2×3	Basic facilities for the maintenance of costume;	
1181	Costume Shop-02	5.8×11.8×3	Sewing machine, overlock machine and stream / iron	
			equipment	
1163	Laundry Room-01	5.8×4.9×3	Washing machine, tumble dryers, sink and clothes	
			folding table	