



# HAWAII THEATRE

## Technical Information

*(Please contact the Technical Services & Facilities Manager at (808) 791-1324 for further information)*

The Hawaii Theatre is a fully equipped proscenium theatre seating approximately 1400. The theatre has excellent sightlines and is air conditioned. The theatre is suitable for a wide range of programs including classical and popular music concerts, recitals, dance performances, stage plays, opera theatre, film projection, industrials, graduations, pageants, lectures and meetings. The theatre is also suitable for production work including still photography, film, video, audio recording and radio.

### THEATRE ADDRESS:

Hawaii Theatre  
1130 Bethel Street  
Honolulu, HI 96813-2201

### OPERATIONS STAFF:

#### THEATRE MANAGEMENT

**John Parkinson, Director of Programming;** [johnparkinson@hawaiiitheatre.com](mailto:johnparkinson@hawaiiitheatre.com)

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**Jude Lampitelli, Technical Services & Facilities Manager;**

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#### BOX OFFICE

**Janet Sablan, Box Office Manager;** [janetsablan@hawaiiitheatre.com](mailto:janetsablan@hawaiiitheatre.com)

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#### FRONT-OF-HOUSE

**Elizabeth O'Brien, Director of Audience Relations;**

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#### PRODUCTION DEPARTMENT

**Cameron Olson, Production Manager;** [cameronolson@hawaiiitheatre.com](mailto:cameronolson@hawaiiitheatre.com)

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**Robert Lee, Stage Technician;** [robertslee@hawaiiitheatre.com](mailto:robertslee@hawaiiitheatre.com)

Phone: (808) 791-1325 Fax: (808) 791-1340 Stage Phone: (808) 599-2642

**SEATING CAPACITY:** *Please confirm seating configuration with Box Office Manager.*

Orchestra:	484
Parterre:	<u>132</u>

*Lower Levels Capacity*      *Total:*    **616**

Loge:	198
Balcony:	220
Upper Balcony:	<u>367</u>

*Upper Levels Capacity*      *Total:*    **785**

**Total Capacity:**                      **1401**

### STAGE INFORMATION:

Type: Proscenium stage.

Floor: "Sprung" ballet floor, douglas fir w/ dark Duraseal no gloss finish. There are no stage lifts or stage traps in the floor.

Width:	Wall to Wall:	79' 6"	24.23 meters
	Proscenium Opening:	40' 10"	12.44 meters
	CS to SR Wall:	33' 3"	10.13 meters
	CS to SL Wall:	45' 6"	13.90 meters

Proscenium width can be closed in by a reduced trim combination of stock soft goods (black legs, and DS Motorized Traveler).

Depth:	Plaster Line to Back Wall:	30'	9.14 meters
	Apron Front to Plaster Line:	13' 4"	4.06 meters

Height: Stage Floor from House Floor: 3' 9" 1.14 meters

Load Capacity: 250# psf 113.4 kg psf  
Proscenium: 21' 8" (to bottom Valance swag) 6.60 meters  
Grid: 60' 18.29 meters

Proscenium height can be closed in by a reduced trim combination of stock soft goods (black border, Pompeii Red House Curtain).

Apron: Shape: Curved downstage, trapezoid upstage  
Width: 37' 11.28 meters  
Depth: 10' 3.05 meters

Load Capacity: 150# psf 68 kg psf

Pit: Shape: Curved downstage, trapezoid upstage  
Location: Apron  
Elevator Width: 37' 11.28 meters  
Elevator Depth: 10' 6" 3.20 meters  
Height: Pit Floor to House Floor: 6' 3" (pit at lowest) 1.91 meters  
Pit Floor to Stage Floor: 10' 6" (pit at lowest) 3.20 meters

Maximum # of People: Approximately 35-40 (depending on instrumentation)  
Access to Pit: Backstage; basement-level doors (2)

Obstructions: SR Wing: Locking Rail (ele. 18'-0"), (2) single purchase lines DSR offstage, Electric Ladders (trim ht. at 9'-0"). (5.49 meters/2.74 meters)  
SL Wing: Pin Rail (ele. 36'-0"). (10.97 meters)  
USC: Parapet outcrop on USC bearing beam (obstructs lineset #40).  
Overhead: none  
Other: none

Scaled top view & side elevation stage drawings available on request.

## **RIGGING:**

Designed and installed by Tiffin Scenic Studios, Inc., the stage rigging system of the Hawaii Theatre consists of a main double-purchase counterweight system at stage right with an additional pin rail at stage left.

### **PinRail:**

Location: SL at 36' 10.97 meters  
Available Battens: 2  
Length of Battens: 53' 16.15 meters  
Maximum Weight per Batten: Consult Theatre Production Manager  
Maximum Height of Scenery: Consult Theatre Production Manager  
Available Sand Bags: Consult Theatre Production Manager

### **Compound/ Double-Purchase Counterweight System:**

Location of Locking Rail:  
House Curtain & 1st Electric: Offstage DDR at stage level.  
Linesets # 2 through #40: SR at 18' elevation 5.49 meters  
Location of Loading Rail: SR at 57' elevation. 17.37 meters  
Length of Battens: 53' 16.15 meters  
Maximum Weight of Battens: 2900 pounds 1315.42 kilograms  
Maximum Height of Scenery: Consult Theatre Production Manager  
# of Line Sets: 40  
# Available for Use: 25  
# of Electrics: 7  
Apron to First Set of Lines: 4' 4" (to Lineset #1- House Curtain) 1.31 meters  
Apron to Last Set of Lines: 30' 9.14 meters  
Location of Electric Battens from Apron: See Hanging Plot (available upon request)  
Batten Centers: 26' 6" 8.08 meters  
Obstructions: Lineset #40 obstructed at approx. 50' elevation. 15.24 meters

**CURTAINS:**

House Curtain is a guillotine curtain of Pompeii Red Velour controlled by a single-purchase linset located off stage right  
The House Curtain provides no access to the downstage apron area when in.

White muslin bounce cyclorama located upstage and controlled from stage right fly floor, lineset # 38.

	#	Ht.	Width	Meters	Description	Color
<b><u>House Curtain:</u></b>	1				Guillotine	Pompeii Red
<b><u>Travellers:</u></b>	3	30'	54'	9.14 / 16.46	50% fullness	Black Memorable velour
<b><u>Utility Drop:</u></b>	1	30'	56'	9.14 / 17.07	No fullness, 4 sections	Black Memorable velour
<b><u>Borders:</u></b>	4	12'	52'	3.66 / 15.85	50% fullness	Black Memorable velour
<b><u>Legs:</u></b>	6	30'	15'	9.14 / 4.57	50% fullness	Black Memorable velour
<b><u>Scrim:</u></b>	1	30'	52'	9.14 / 15.85	No fullness	Black Sharkstooth*
	1	30'	52'	9.14 / 15.85	No fullness	White Sharkstooth*
<b><u>Cyc:</u></b>	1	30'	52'	9.14 / 15.85	No fullness	White seamless Muslin

*Dedicated items are listed on Hanging Plot, available upon request.*

*\*Rental item; please refer to the Stage Equipment Rental Rate Card for current pricing.*

**LOADING AREA:**

Loading doors are located on Pauahi Street between Nu'u'anu Avenue (one way makai) and Bethel Street (one way mauka) in Downtown Honolulu, island of O'ahu. The loading doors are at street level adjacent to the sidewalk, with a slight grade from the street up to stage level. The loading doors open to the SL Wing. Truck parking is located in loading bay (clearances permitting) and along the makai side of Pauahi Street. City & County permits are required for parking and/or obstructing Pauahi Street.

**Door:**

Width:	7' 8"	2.33 meters
Height:	13' 4"	4.06 meters
Height from Ground:	At street level	

**Distance from Loading Door to Stage:**      20 feet      6.09 meters

**DRESSING ROOMS:**

	Star	Principle	Chorus	
# of Dressing Rooms:	1	5	2	
# Each can Accommodate:	1 (or more)	3-4 (or more)	6 (or more)	
Location:	Stage Level	1- Lower Level 2- 2nd Level 2- 3rd Level	Lower Level	
Distance from Stage:	8'	15'-30'	20'	2.44 / 4.57-9.14 / 6.10 meters
Toilet:	Yes	Yes	Yes	
Running Hot/ Cold Water:	Yes	Yes	Yes	
Hot/ Cold Shower:	Yes (w/ bath)	Yes	Yes	
Mirrors:	1	3-4	6	
Mirror Lights:	Yes	Yes	Yes	
Wardrobe Racks:	Yes	Yes	Yes	
Chairs:	Yes	Yes	Yes	
Storage Shelves:	Yes	Yes	Yes	

*\*Dressing rooms #1 and #8 have private phone jack hook-ups with service available through Hawaiian Telcom Business Services, (808) 643-4411.*

**MISCELLANEOUS:**

**Best Position for "Calling Show":**

Stage Right or Stage Left in wing.

Why?: Stage Managers' Console hookups located SR & SL in wing 1. Console includes front-of-house and pit video feeds, Clear-Com station, house lighting control, chime control, phone and cue light control.

**Shops:** Scenic: None  
Props: None  
Costume: Wardrobe area; full-sized, front-loading HE washer & dryer, 2 ironing boards, 2 irons, 3 rolling racks

Small backstage storage area can be used for alterations, minor repairs.

**Greenroom Area:**

Greenroom Area is located in the Lower Level SL Corridor of the backstage and is furnished as a standing room with soft drink and snack vending machines. **There are no rehearsal rooms at the theatre.**

**FRONT OF HOUSE CONTROL BOOTH:**

The Front of House Control Booth is a two level structure located in the center rear of the Upper Balcony with the access door located on the house left side. The Followspot Bays are located in the upper level of the Control Booth and consists of four spot bay windows and is air-conditioned and equipped with a loading trap from the lower level of the Control Booth. Controls for computerized stage & architectural lighting, projection, and house sound systems are located in the lower level of the Control Booth. Lower level of the Control Booth is also air conditioned and equipped with house phone and toilet.

Distance from Stage: Approximately 110' 33.53 meters

**LIGHTING:**

**Front of House Positions:**

	#	Distance from Stage	Meters
Balcony Rails:	1- segmented	50' at center of rail to plaster line.	15.24
Booms:	2- HR & HL	26' to plaster line	7.93
Pipes:	0		
Beamports:	#1- HL & HR	65'	19.81
	#2- HL & HR	76'	23.17
	#3- HL & HR	91'	27.74
Spot Bays:	4	110'	33.53

**Onstage Positions:**

Electrical Battens:	7	Refer to Hanging Plot.	
Side Ladders:	3- SR	Approx. 10' offstage, 9' elevation on bottom pipe.	(3.05/2.74)
	3- SL	Approx. 10' offstage, variable elevation.	(3.05)
Torms*:	2- DSR & DSL	Approx. 5' offstage on proscenium wall.	(1.52)

*\*DSR & DSL Torm positions must be hung AFTER 1st Electric is hung and in high trim, and unhung BEFORE 1st Electric is struck.*

**Grid:**

Dimensions: 64' x 32' 19.51 x 9.75 meters  
# of Circuits: 0 (All Electrical battens are pre-circuited)

**Main Power:**

Location: SL Wall  
Type of Current: AC  
Total Amps: 1- 400 amp House Service  
1- 400 amp Stage Service  
1- 400 amp Company Disconnect (additional charge for use)  
Wires: 4  
Phase: 3  
Voltage per Hot Leg: 208Y/120 Volts

**Circuits:**

# in House:	13	Amps:	20
# Onstage:	219	Amps:	20
# in Floor Pockets:	26	Amps:	20
# in Beamports:	44	Amps:	20

**House Lights:**

Switches: Strand Premiere computer-programmed house lighting presets  
Dimmers: Strand Premiere, 192 dimmers  
Controls: Located at SM Console, FOH, and Control Booth

**Control Boards:**

**Type:** ETC SmartFade 2496 Light Board  
**Make:** Electronic Theatre Controls  
**Location:** Stage (variable)  
*\*\* The ETC SmartFade console is included with use of the House repertory light plot \*\**

**Type:** Express 72/144 Computerized Light Board  
**Make:** Electronic Theatre Controls  
**Location:** Portable; can be used in Control Booth or FOH Tech Position  
**# of Dimmers:** Up to 1024  
**# of Channels:** 240  
*\*\* Rental Item- see Equipment Rental Rate Card for current pricing \*\**

**Type:** Wireless Remote Focus Unit (RFU) for ETC Express 72/144  
**Make:** Electronic Theatre Controls  
**Location:** Portable, wireless with indoor range of up to 240'  
*\*\* Rental Item- see Equipment Rental Rate Card for current pricing \*\**

**Type:** M1 Computerized Light Board  
**Make:** Martin  
**Location:** Portable; can be used in Control Booth or FOH Tech Position  
**# of Dimmers:** Up to 2048  
**# of Channels:** n/a  
*\*\* Rental Item- see Equipment Rental Rate Card for current pricing \*\**

**Dimmers:** Strand CD-80 in 4 racks; 304- 2.4kw dimmers

**Instruments:**

<b>Type</b>	<b>Size</b>	<b># Available</b>	<b>Lamp</b>	<b>Sufficient Supply</b>	
				<b>Pattern Holder</b>	<b>Color Frames</b>
ERS LEKO 15	6 X 22	16	1000W	Yes (2 3/8")	Yes (7.5" X 7.5")
ERS LEKO 10	8 X 13	16	1000W	Yes (3")	Yes (10" X 10")
ERS LEKO 20	6 X 16	24	1000W	Yes (2 3/8")	Yes (7.5" X 7.5")
ERS LEKO 5	10 X 23	28	1000W	Yes (3")	Yes (11 3/4" X 11 3/4")
ERS LEKO 30	6 X 12	54	1000W	Yes (2 3/8")	Yes (7.5" X 7.5")
ERS LEKO 40	6 X 9	44	1000W	Yes (2 3/8")	Yes (7.5" X 7.5")
SOURCE FOUR	19°	1	575W	Yes	Yes (6 1/4" X 6 1/4")
FRESNEL	6"	34	1000W		Yes (7.5" X 7.5")
FRESNEL	8"	24	2000W		Yes (10 1/8" X 10 1/8")
PAR 64 WFL		9 (stage works)	500W		Yes
PAR 64 FFR		11	1000W		Yes
Two-Fers (T-Block):		24 (used on side ladders; no spares)			
Adapters:					
Stage pin – Edison M		4			
Stage pin – Edison F		11			

**Metric size conversions for the above instruments**

ERS LEKO 15	15.24 x 55.88 cm	6.03 cm	19.05 x 19.05 cm
ERS LEKO 10	20.32 x 33.02 cm	7.62 cm	25.4 x 25.4 cm
ERS LEKO 20	15.24 x 40.64 cm	6.03 cm	19.05 x 19.05 cm
ERS LEKO 5	25.4 x 58.42 cm	7.62 cm	29.85 x 29.85 cm
ERS LEKO 30	15.24 x 30.48 cm	6.03 cm	19.05 x 19.05 cm
ERS LEKO 40	15.24 x 22.86 cm	6.03 cm	19.05 x 19.05 cm
FRESNEL	15.24 cm		19.05 x 19.05 cm
FRESNEL	20.32 cm		25.72 x 25.72 cm

**Plugs:** 3-pin stage connections; sufficient cable to operate all instruments.

**Fixtures:**

<b>Type</b>	<b># Available</b>	
MARTIN MAC700 PROFILE	6	
CHROMA-Q COLOR FORCE 72 (LED)	16	(8 dedicated as top cyclorama lights, 8 dedicated as <b>optional</b> ground row cyc lights)
COLOR KINETICS COLORBLAZE 72 (LED)	15	(dedicated as #1, #2 and #3 striplights on linesets #7, #16 and #29)
COLOR KINETICS COLORBLAZE 48 (LED)	2	(dedicated as #2 striplights on lineset #16)
CHAUVET COLORado 3P (LED)	10	

**Spotlights:** (2) Lycian Midget 1k spotlights; repertory frame/ color schedule:

<b>FRAME #</b>	<b>COLOR</b>	
1	R119	Light Hamburg Frost (Diffusion)
2	R33	No Color Pink
3	R51	Surprise Amber
4	R02	Bastard Amber
5	R60	No Color Blue
6	R34	Flesh Pink

**Additional Equipment:** (8) Altman 10' Light trees with 50# round base and 4' cross pipe

**Special FX Equipment:** (4) Wildfire FX Master dual-tube UV units  
 (2) LOOK Unique 2 Hazer units  
 (2) SnowMasters T1100 snow machines  
 (2) Bubble Master BM-100 bubble machines

**\*PLEASE NOTE: Theatre policy requires the use of WATER-BASED haze and/or smoke effect units during productions. Please contact the Theatre Production Office at (808)791-1324 for more information.**

**Focusing Equipment:** Genie AWP-24 Personnel Lift (Maximum lift height: 24 feet / 7.32 meters)  
 \*Pipes lower to 4' above stage (1.22 meters)

**Projection Location Information:** Typical location for placement of front projectors is at the center balcony rail. Approximate distance from this location to:

HTC Movie Screen (lineset #6) =	48'	14.63 m
Midstage Traveler (lineset #15) =	55'	16.76 m
Muslin Cyclorama (lineset #38) =	71'	21.64 m
VIP Boxes (center), HR and HL =	50'	15.24 m

## **SOUND:**

Front-Of-House mix position located at orchestra level, House Left parterre (see below).

### **Components:**

Sequential Switch System: Atlas Soundolier SACR-191

Audio Processor: Electro-Voice (EV) NetMax N8000-1500 Digital Matrix Controller (*NetMax provides signal processing for the entire system, including compression/ limiting, delay, equalization, and signal routing to all speaker outputs*)

Cassette Deck: Denon DN-T620 Compact Disc/Cassette player combo unit

Compact Disc Deck: Tascam CD-401MKII Compact Disc Player, Denon DN-T620 Compact Disc/Cassette player combo unit

Distribution Amplifier: FSR inc. ADA-4 1 x 4

Power Supplies: FSR inc. DC-5/ Soundcraft CPS750/B

Audio Summer: FSR inc. WCA-4

Speakers:

- Main Cluster: (10) EV XLD281 cabinets, mono configuration (*120° x 10° coverage pattern*)
- Stereo Carts: Two (2) carts consisting of (6) EV XLD281 cabinets and (1) EV XCS312 subwoofer cabinet per side (**optional**; for stereo configuration as needed)
- Underbalcony: (6) EV Xi-1082 cabinets (*90° x 40° coverage pattern*)
- Front-fill: (4) EV Xi-1082 cabinets (**optional**; for orchestra-level reinforcement as needed)
- Subwoofers: (2) EVF-1181F cabinets (*installed above House Left and House Right organ lofts*)  
(4) EV QRx 218S cabinets (**optional**; for orchestra-level reinforcement as needed)
- Monitors: (8) EV TX1122FM stage monitors  
(2) EAW SM155 HI stage monitors (*installed on #1 Striplight as overhead sidefills*)  
(2) EAW FR253 HR front-fill cabinets

Amplifiers: (9) EV CPS 2.12 Class H Amplifiers (*x3 cluster low/ mid freq., x2 cluster hi freq., x2 loft subs, x2 optional stage subs*)  
(5) EV CPS 2.9 Class H Amplifiers (*x3 for underbalcony delays, x2 for optional front-fills*)  
(1) EV CPS 8.5 Class H Amplifiers (*stage monitors*)  
(1) Crown D-75A (*control booth monitors*)

Mics: Available on request. Consult Production Manager for inventory and current rental pricing.

Intercom/ PA: All actor occupied spaces and tech locations are outfitted with Clear-Com w/ program monitor mix and PA capabilities.

### **FRONT-OF-HOUSE SYSTEM (ORCHESTRA TECH POSITION; PORTABLE):**

Mixing Board: 1. Midas Verona 320, 32-channel  
2. Midas Venice 160, 16-channel  
3. Soundcraft E6, 6-channel (*6 mic/ line, mono; 2 line, stereo*)

Equalizers: 1. Ashly Protea System II (*digital EQ; 6-channels w/ compressor/ limiter/ gate/ delay on each channel*)  
2. (1) Klark Teknik DN405 parametric  
3. (1) Klark Teknik DN360 dual-channel 1/3 octave  
4. (4) Klark Teknik DN300 1/3 octave

Compressor/Limiter: dbx 1066 Dual-Channel compressor/ limiter/ gate unit

Effects Processor: 1. (1) t.c. electronic M-ONE XL Dual-Engine Effects Processor  
2. (1) Yamaha SPX1000 Digital Effects Processor

Compact Disc Deck: (1) Denon DN-T625 Compact Disc/Cassette player combo unit  
(1) Numark CDN77USB Dual-deck CD/ USB player

### **REHEARSAL SYSTEM (PORTABLE):**

Mixing Board: Soundcraft E6, 6-channel (*6 mic/ line, mono; 2 line, stereo*)

Speakers: (2) JBL EON10 G2 powered 10" speakers with stands  
(1) LightSpeed Delta X10 (*built-in CD player, USB flash drive player, 2 XLR mic inputs*)

All microphone, multi-plex, and monitor/speaker runs pre-circuited. House policy precludes any cable runs FOH. Contact Theatre Production Manager for further information.

**STAGE LABOR:**

The Hawaii Theatre Center, which owns and operates the Hawaii Theatre, takes no position regarding the use of either union or non-union personnel by presenting organizations licensing the use of the facilities of the Hawaii Theatre. Such decisions are regarded by the Hawaii Theatre Center to be matters of internal employment policy set by each licensed user.

The Hawaii Theatre Center does, however, require that facility users set-up, operate, and dismantle all shows, concerts, exhibits, athletic events, and other productions in such a fashion that public safety, employee safety, and proper equipment utilization are ensured to the greatest extent possible. In this sense, users must be responsible for engaging qualified personnel to carry out all production operations. Suggested guidelines for assessing personnel qualifications are attached. The Hawaii Theatre General Manager is the sole authority in the assessment of personnel qualifications.

Many individual licensed users have developed sources for acquiring qualified personnel. For those presenting organizations seeking additional personnel, one potential source may include the International Alliance of Theatrical and Stage Employees and Moving Picture Machine Operators. The business office for Local 665 of the I.A.T.S.E. Union is located at 875 Waimanu St. #610, Honolulu, HI 96813, and may be reached by phone at (808) 596-0227 or by email at [busrep@iatse665.org](mailto:busrep@iatse665.org). Requests for projectionists should be forwarded to the Hawaii Theatre Production Office at: 1130 Bethel Street, Honolulu Hawai'i 96813-2201; or by phone at (808) 791-1324.

**NEAREST STAGE SUPPLY HOUSES:**

Please contact Hawaii Theatre Production Office for information at (808) 791-1324.