



# Ikeda Theater Technical Information

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Mesa Arts Center

1/10/2018

Mesa Arts Center  
Ikeda Theater Technical Information Packet  
1 East Main Street, Mesa, AZ 85201

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**General Information**

**Technical Services:**

Director of Production

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**Programming:**

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**Box Office:**

Andrew Douglas

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E: [Andrew.Douglas@mesaartscenter.com](mailto:Andrew.Douglas@mesaartscenter.com)

**Area Hotels:**

**Marriott Mesa**

200 North Centennial Way

Mesa, AZ 85201

P: (480) 898-8300

**Comfort Inn and Suites**

651 East Main Street

Mesa, AZ 85201

P: (480) 621-6375

**Best Western Mezona Inn**

250 West Main Street

Mesa, AZ 85201

P: (480) 834-9233

**Holiday Inn**

1600 S Country Club Drive

Mesa, AZ 85210

P: (480) 863 - 4780

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## **Management**

### **Production Office:**

Location: Upstage hallway of Ikeda Theater  
Internet access via Cat5 Ethernet cable available, shared wireless available.  
Copier available in the Ikeda Loading dock area

### **Green Room:**

Upstage hallway of Ikeda Theater next to the Ikeda Production Office

### **Policies:**

- Lobby typically opens 1 hour prior to curtain with house opening 30 minutes prior to curtain.
- The Fire Curtain must not be obstructed in any manner which could prevent its complete contact with the stage floor when deployed.
- All scenery drops and fabric must be flame proofed. Random testing of articles will occur.
- All wood must be flame-proofed (fire-treated).
- All doors in the facility are fire rated and must not be obstructed in any way to prevent their closure.

## **Load-In Area**

### **Load-In Access to Stage:**

- Two loading docks at stage level.
- Dock 1 has a trailer well and will allow unloading directly to stage level. Dock 1 can accommodate one (1) 53' tractor-trailer with tractor attached.
- Dock 2 is at street level and contents must be ramped down. Dock 2 can accommodate one (1) 53' tractor-trailer without tractor attached. Trailer must be dropped and tractor must park elsewhere on campus. Parking on campus will be reserved for the tractor by the Technical Director
- There is no forklift on site.
- Loading dock door is 12' wide by 16' high
- Driver must remain to move truck if necessary.
- Post-show storage is NOT available at the Mesa Arts Center. All items must leave at load-out. The Mesa Arts Center is not responsible for any items left behind.

### **Directions:**

1. From Phoenix take Loop 202 East.
2. Exit Country Club Drive and turn Right (South) to Main St.
3. Turn Left (East) on Main St. and travel a half mile until you come to Serrine/Centennial Way
4. Turn Right (South) on Serrine/Centennial Way
5. Take your first right into the service drive between the bank and parking garage. Follow the drive as it curves to the left. Park on the left, Performer entrance is on the right at the glass doors.

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**Carpentry**

**Seating:**

House Capacity – 1588 with orchestra lift seated

<b>Orchestra Section</b>	<b>Mezzanine</b>	<b>Balcony</b>
968 Fixed (Orchestra Pit – 66 seats)	345 Fixed	176 Fixed
19 Wheelchair	4 Wheelchair	56 Loose Chairs
4 Loose Chairs	38 Loose Chairs	

**Stage Dimensions:**

Proscenium width: 54' 11"

Proscenium height: 31' 10"

SL locking rail to SR wall: 110' 11"

Stage Left wing: 21'

SL Locking Rail to Flyrail Pipe End: 12' 6"

Stage Right wing 35' (Orchestra shell storage obstructs some of this area and cannot be moved)

SR Wall to Flyrail Pipe End: 27'

Stage Left has a mid-rail Locking Gallery 20'2" above stage level and extends 8' from SL Locking rail.

Plaster line to back wall: 44'6"

Plaster line to last line set (58): 44'

Control room to plaster line: 107' 6"

House mix position to plaster line: 65' 3"

Follow spot booth to center stage: 144'

Gridiron: 92'4"

Plaster Line to Edge of Orchestra Pit: 3' 1"

Orchestra pit: 56'9"L x 11' 9"W radius design, 530sq. ft

Variable depth to 10' below stage level.

Static load capacity: 80,250 lbs.

Lifting load capacity: 26,750 lbs.

Orchestra shell width at proscenium: 53' 8"

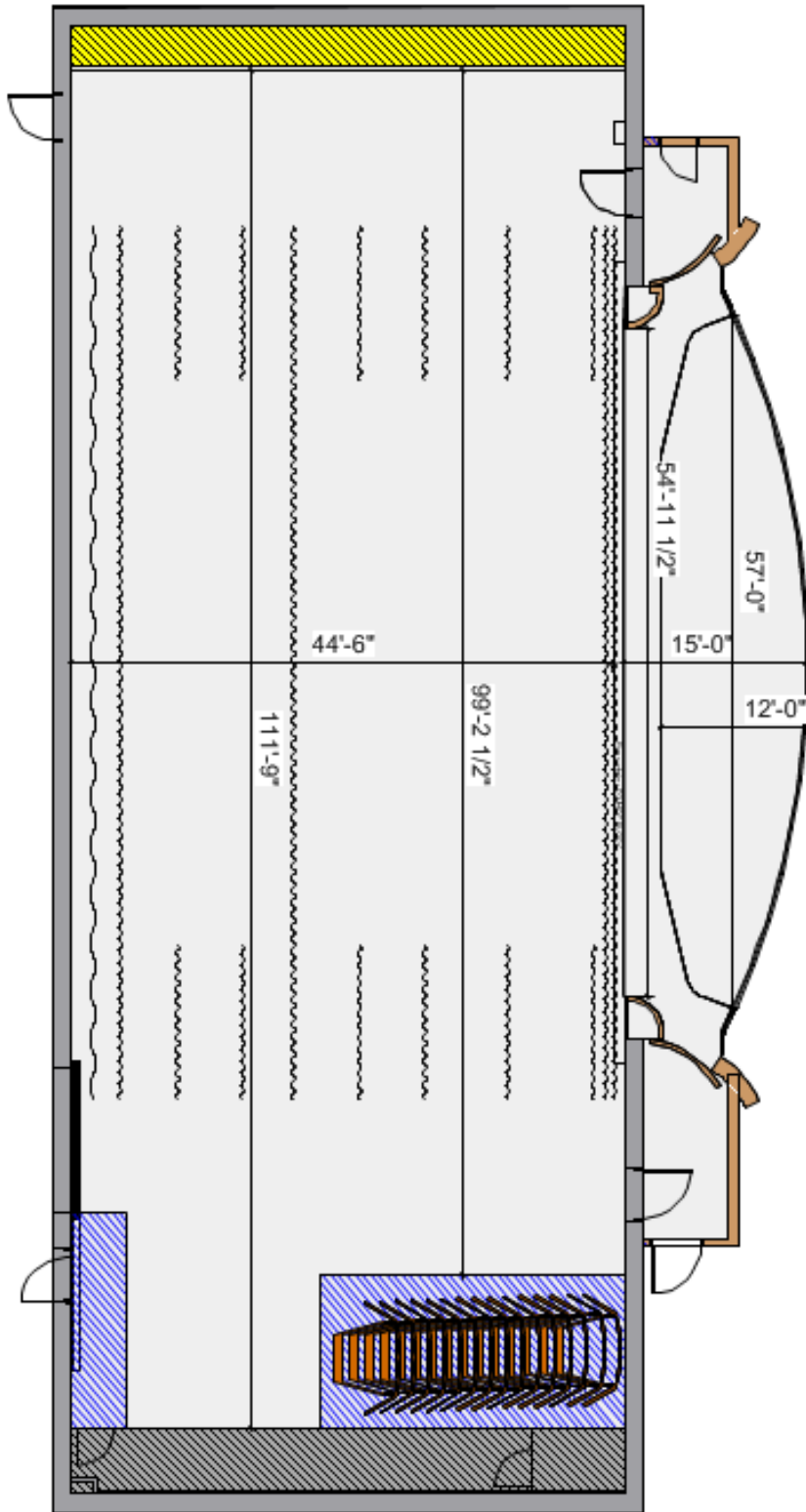
Orchestra shell depth: 32' 10"

Orchestra shell width at upstage: 39'

**Stage Floor**

- 1" Maple Hardwood, painted black
- Lagging into MAC floors is allowed, but should all hardware must be Grade 5 or higher. Client will be responsible for all costs incurred to the MAC in the repair of the holes.
- No Traps are available

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**House Draperies (Goods):**

Drapery	Quantity	Size	Fullness	Fabric	Lining	Color	Notes
Main Border	1	72' x 14'	75% Sewn In	25 oz Velour	Black Ranger	Blue	Nap Up
Main Drape	1	38' x 36' 6"	75% Sewn In	25 oz Velour	Black Ranger	Blue	Nap Up
Border	5	72' x 12'	None	25 oz Velour	None	Black	Nap Down
Leg	10	12' 9" x 36' 6"	None	25 oz Velour	None	Black	Nap Down
Traveler	4	57' x 36' 6"	50% Tied In	25 oz Velour	None	Black	Nap Down
Cyclorama	1	72' x 36'	None	Lino	None	White	Seamless
Black Scrim	1	72' x 36'	None	Sharktooth	None	Black	
Tabs	10	8' x 40'	None	25 oz Velour	None	Black	Nap Down

**Line Set Data:**

**Working height of battens:**

- High trim: 78' 6"
- Low trim: 3' 6"

**Battens:** 58 truss battens, 72' long, Schedule 40

**Type:** Single Purchase

**Arbor Capacity:** 2868 pounds per arbor

**Available Weight:** Located DSL, mid-rail and loading rails

**Loading Galleries:** 2 located SL at 70' and 80' above stage floor

**Pin Rail:** Located stage left at 3' 6"



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House Line Set Plot:

LINE SET	FROM PROSC	House Hang DESCRIPTION
MT	1'	MAIN TEASER
MD	1' 6"	MAIN DRAPE (TRAVELER)
2	2' 6"	LEGS 1
3	3'	
4	3' 6"	
5	4'	
<b>6</b>	<b>4' 6"</b>	<b>1ST ELECTRIC</b>
7	5'	
8	5' 6"	
9	6'	
SHELL	7	ORCHESTRA SHELL CEILING #1
11	8' 3"	
12	8' 11"	
13	9' 7"	
14	10' 3"	BORDER 1
15	10' 11"	LEGS 2 SR
16	11' 7"	LEGS 2 SL
17	12' 3"	
18	12' 11"	
SRT	13' 7"	STAGE RIGHT TAB BATTEN
<b>19</b>	<b>14' 3"</b>	<b>2ND ELECTRIC</b>
20	15' 9"	
21	16' 5"	
SRL	17' 1"	STAGE RIGHT LADDER BATTEN
SHELL	18' 5"	ORCHESTRA SHELL CEILING #2
SLL	19' 1"	STAGE LEFT LADDER BATTEN
23	19' 9"	BORDER 2
24	20' 5"	LEGS 3
25	21' 1"	PROJECTION SCREEN (15'x26'x6")
26	21' 9"	
27	23' 3"	
28	23' 11"	
<b>29</b>	<b>24' 7"</b>	<b>3RD ELECTRIC</b>
30	25' 3"	
31	25' 11"	
32	26' 7"	
33	27' 3"	MID STAGE TRAVELER
34	27' 11"	
SHELL	29' 3"	ORCHESTRA SHELL CEILING #3
36	30' 9"	BORDER 3
37	31' 5"	LEGS 4
38	32' 1"	
39	32' 9"	
40	33' 5"	
41	34' 1"	
<b>42</b>	<b>34' 9"</b>	<b>4TH ELECTRIC</b>
SLT	35' 5"	STAGE LEFT TAB BATTEN
43	36' 1"	
44	36' 9"	BORDER 4
45	38'	LEGS 5
46	38' 6"	
<b>47</b>	<b>39'</b>	<b>5TH ELECTRIC</b>
48	39' 6"	
49	40'	
50	40' 6"	SCREEN STORAGE (10.5'x14'2")
51	41'	
52	41' 6"	UPSTAGE TRAVELER
53	42'	
54	42' 6"	BORDER 5
55	43'	LEGS 6
56	43' 6"	CYCLORAMA
57	44'	Full Stage Black
58	35' 5"	Falls Between LS 42 & 43

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**Support Areas:**

**Crossover:**

There is no dedicated crossover. Closest crossover is the upstage hallway with access to SR and SL.

**Access:**

From front of house: hallway stage left (house right) to upstage hallway.

From dressing rooms: dressing rooms are located in the upstage hallway and on the 2<sup>nd</sup> floor, accessible via stairway in the upstage hallway and elevator located behind the Piper theatre.

**Storage:**

There is no dedicated storage space for events. Events may store equipment in loading dock during their stay. Storage is not available before or after the show. All items must leave at load-out.

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## Lighting

### Power:

Quantity	Voltage	Phase	Amperage	Location	Connection
6	120/208	3 Phase	400a	Stage Right Wall	Cam
4	120/208	3 Phase	200a	Stage Right Wall	Cam
2	120/208	3 Phase	400a	Up Stage Left	Cam
2	120/208	3 Phase	200a	Up Stage Left	Cam
1	120/208	3 Phase	200a	Gridiron Up Stage Center	Cam
1	120/208	3 Phase	200a	Gridiron Stage Right	Cam
1	120/208	3 Phase	200a	Proscenium Catwalk	Cam

### Control:

- ETCNET 2 throughout venue.
- ETC EOS-4K Console + 3 ETC 2x20 fader wings
- ETC ION 1000 backup console
- ETC Net 3 radio focus remote
- ETC EOS RPU-4K master back up.

### Dimmers:

- 564 ETC sensor dimmers, 2.4kW dimmer
- 10 ETC sensor dimmers, 6kw dimmer

### Circuits:

- 564 – 2.4kw circuits. Fixed positions on stage right and stage left catwalks with Socopex multicable connections. See Attachment for specific locations

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**Circuit Locations:**

<b>Location</b>	<b>Dimmers</b>
1 <sup>st</sup> AP	59 – 86 + 566 (6k) (Raceway)
2 <sup>nd</sup> AP	19 – 46 + 565 (6k) (Raceway)
3 <sup>rd</sup> AP	1 – 18 (Raceway)
House Right Catwalk (AP)	47 – 52
House Left Catwalk (AP)	53 – 58
Balcony Rail	87 – 110 (Raceway)
House Right Upper Box Boom	111 – 116
House Right Lower Box Boom	135 – 140
House Left Upper Box Boom	117 – 122
House Left Lower Box Boom	141 – 146
Orchestra Pit	159 – 170 (2 Soco Connections)
Grid (Up Stage Center)	171 – 182 (2 Soco Connections)
Stage Right Ladder Pipe (dedicated to US Truss)	255 – 314 (10 Soco Connections)
Stage Left Ladder Pipe (dedicated to DS Truss)	315 – 374 (10 Soco Connections)
Stage Right Gallery	375 – 446 (12 Soco Connections)
Stage Left Gallery	183 – 254 (12 Soco Connections)
Down Stage Right Wall (Stage level)	473 – 480 + 572 (6k)
Down Stage Left Wall (Stage level)	465 – 472 + 571 (6k)
Up Stage Right Wall (Stage level)	557 – 564 + 574 (6k)
Up Stage Left Wall (Stage level)	541 – 548 + 573 (6k)
Up Stage Center Wall (Stage level)	549 – 556
Stage Right Floor (Floor Pockets)	497 – 512
Stage Left Floor (Floor Pockets)	481 – 496
Up Stage Floor (Floor Pockets)	513 – 540
Down Stage Floor (Floor Pockets)	447 – 464
House Right Upper Torm (in Proscenium)	123 – 128
House Right Lower Torm (in Proscenium)	147 – 152
House Left Upper Torm (in Proscenium)	129 – 134
House Left Lower Torm (in Proscenium)	153 – 158
House Lights	587 – 621 + 752 (LED Wall Intensity)

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**Equipment Inventory:**

**Stage Instruments:**

Quantity	Brand	Type	Wattage
2	ProCan	8 Can Audience Blinders	
12	ETC Source 4	5 Degree	750wt
55	ETC Source 4	10 Degree	750wt
6	ETC Source 4	14 Degree	750wt
40	ETC Source 4	19 Degree	575wt
82	ETC Source 4	26 Degree	575wt
125	ETC Source 4	36 Degree	575wt
12	ETC Source 4	50 Degree	575wt
104	ETC Source 4	Par	575wt
75	Stand Century	8" Fresnel	2kw
12	L&E	3 Cell Cyc	1kw
20	Ground Strip	6 Cell	1kw

**Followspots:**

4 Super Trooper (2K) Follow spots located in enclosed spot booth at rear of house - catwalk level

**Cable:**

Soco, Stagepin and 2-fers are available

**House Lighting Plot Description**

- The Ikeda Theater house lighting plot is capable of up to 6 different color washes on stage.
- A three-color high side wash is available from the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> electrics over stage
- Several fixtures are also available on each electric for overhead specials
- Up to 3 color Cyclorama wash is also available as well as FOH box boom and balcony rail positions.
- **NOTE: Not all fixtures may be available because they are being used on house plot**
- **Please speak to the MAC Production Supervisor to request a plot or more information**

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**Audio**

**Power:**

Quantity	Voltage	Phase	Amperage	Location	Connection
4	120/208	3 Phase	200a	Stage Right Wall	Cam
2	120/208	3 Phase	200a	Up Stage Left	Cam

**Control Location:**

The Front of House Mix Position is located in the center of the main floor in the house, 65' from plaster line. Mix position cable tunnel terminates Down Stage Right. A 100' snake minimum is recommended to connect a Monitor Console Down Stage Right to a console at the Front of House Mix Position.

- If you would like the Monitor Console to be placed Down Stage Left, a minimum 75' extension is needed in addition to the 100' stake mentioned above.
- If you need to run lines to the Follow Spot Booth, a 350' Snake will be needed.

**Hearing Assist System:**

Infrared hearing assist system headsets are available to patrons via the house management staff. Show Program is distributed by the audio system Digital Signal Processor and sourced from the mixing console or ambient room mic.

**Paging System:**

Paging system is routed to the US hallway, upstairs and downstairs dressing rooms, Green Room, production office and patio. Paging locations are located DSR, DSL and in the lighting control booth.

Front of House video monitoring is available the Green Room, DSR and DSL and upstairs Dressing Rooms.

**Production Communication:**

2 channel Clear-Com party line system w/11 single-channel wired belt packs and headsets.

2 Single channel Clear-Com WBS-670 base stations w/ 5 single channel WTR-670 belt packs and headsets.

2 Clear-Com (1x TW-12B & 1x TW-12C) interface units available.

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**Equipment Inventory:**

**Front of House mixing console:**

- Avid Profile Mix Rack System
  - 48 inputs
  - 32 analog outputs
  - 8 additional analog line level inputs and outputs located at Front of House Mix Position
  - 3 DSP mix engines
  - Venue Pak 3.1,3.1 Pro and Waves Live + Vocal Rider plug-ins.

**FOH Playback:**

- 1 Tascam CD-RW901SL CD Player/Recorder
- 1 Tascam CD-RW900SL CD Player/Recorder

**Monitor Package Equipment (subject to availability and additional rental costs):**

- Yamaha PM5Dv2 with redundant PW800W power supplies
- Behringer X32
- 16 Renkus-Heinz PN151/M9 15" powered 2-way wedges
- 6 Renkus-Heinz PN121/M12 12" powered 2-way wedges
- 10 QSC K12 powered speakers
- 2 QSC K-Subs

**Speaker systems:**

**L'Acoustics Kudo line array package (subject to availability and additional rental costs)**

- 2 Arrays – Stage Left and Stage Right
  - L'Acoustics Kudo full-range line array cabinets (20 total, 10 each side)
- Subwoofers – stacked on deck Left and Right
  - L'Acoustics SB-28 Subwoofers - (6 total, 3 each side)
- Front Fills – on lip of stage
  - L'Acoustics 8XT coaxial Speaker Cabinets (7 total)
- 12 L'Acoustics LA8 Amplified Controllers (L-R arrays and Subs)
- 1 L'Acoustics LA4 Amplified Controller (Front Fills)

**Renkus-Heinz P.A. package**

- Left, Center, Right Clusters, Flown
  - 2 Renkus-Heinz CT9/64 w/ 1 CT7M/94 down fill. L&R
  - 3 Renkus-Heinz CT9/64 w/ 3 CT7M/94 down fills. Center
  - 4 Renkus-Heinz CELF15-2 low frequency modules/subwoofers.2 units mounted inside of each proscenium tower

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- Vegas Speakers, located between subwoofers.
  - 2 Renkus-Heinz CT7/64
- Front Fill
  - 7 Renkus-Heinz TRC61 built into front of stage,
  - 7 Renkus-Heinz TRC61 built into front of orchestra pit



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**Microphones:**

#	Make/Model	Type	#	Make/Model	Type
12	Shure SM58	Cardioid dynamic vocal	1	Applied Microphone Technology M40	Cardioid condenser piano
12	Shure SM 57	Cardioid dynamic Instrument	1	AKG D112	Large diaphragm cardioid dynamic bass kick drum
4	Shure Beta 58	Super cardioid dynamic vocal	2	Shure RPW-184	Switchable cardioid/supercardioid KSM9 head for Shure UHF-R
4	Shure SM 81	Cardioid condenser Instrument	2	Electro-Voice RE20	Large diaphragm cardioid dynamic
2	Shure Unidyne 545	Cardioid dynamic switched announce	6	Sennheiser 421	Cardioid dynamic instrument
2	Shure Beta 87	Super cardioid Condenser vocal	2	AKG C1000S	Cardioid condenser Instrument w/switchable polar patterns via diaphragm insert
1	Shure Beta 52	Large diaphragm super cardioid dynamic kick drum bass	4	AKG 414	Large diaphragm condenser w/switchable polar patterns-sensitivity-high pass filters
1	Shure Beta 91	Half-Cardioid Condenser Boundary Instrument	2	Audio-Technica U857QU	Cardioid condenser podium
4	Shure Beta 98	Miniature super cardioid condenser w/mount drum	8	Countryman Type 85	Active D.I. instrument
5	Crown PCC 160	Half-super cardioid boundary	4	Whirlwind Director	Passive DI instrument audio-visual
6	Audio-Technica U853R	Cardioid condenser hanging type chorus	4	Neumann KM 184	Cardioid Condenser instrument
2	Neumann KMS 105	Super cardioid condenser vocal	2	Audio-Technica 4040	Large diaphragm cardioid condenser
6	AKG 451	Cardioid condenser Instrument	3	Rapco-Horizon LTI-100	Laptop Interface w/1/8" stereo mini connector and L/R XLR switchable to mono outputs
6	Countryman B6	Omnidirectional condenser lavalier w/TA4F connectors;5 black/1 tan	2	Countryman E-6	Omnidirectional condenser over-the-ear w/Shure TA4F connectors 1 black/1 tan

(\*note-additional miscellaneous lavalier and head worn microphones are available in limited supply in our microphone inventory)

(\*note-additional miscellaneous clamps for piano, music stands and horn instruments available in limited quantity)

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**Facility shared wireless microphones (Based on Availability, Additional Charges Applicable):**

- 4 rack mounted Shure UR4D receivers with 8 Shure UR2 handheld transmitters w/Shure SM58 capsules (Beta 87 capsules available) and 8 Shure UR1 belt packs w/Shure WL 154 cardioid lavalier and MM-PSM omnidirectional head worn microphones (Countryman E6 type) available.
- 2 rack mounted Shure UR4D dual receivers with 4 Shure UR2 handheld transmitters w/Shure SM 58 capsules (Beta 58 capsules available) and 4 Shure UR1 belt packs w/Shure WL154 lavalier and MM-PSM omnidirectional head worn microphones (Countryman E6 type) available.

Both racks include Shure UA-845 Antenna Distribution units and Shure UA870 active directional antennas

- 2 rack mounted Shure ULXP “Combo” units each containing 1 ULXP4 receiver w/ 1 ULX handheld transmitter with Beta 58 capsule and 1 ULX belt pack with 1 WL154 lavalier and 1 MM-PSM head worn microphone (Countryman E6 type).

## **Video**

**Projector:**

- Christie Roadster HD18K 1080 HD DLP Projector. Located in Lighting control booth.
  - Inputs: DVI/HDMI, HDSDI, VGA, RGBHV

**Projection Screen:**

- 15’ H x 26’W x 6” D DaLite Front Projection Screen. Screen is hung from Flyrail and typically lives at 21’ Upstage of Proscenium Line

**Video Equipment:**

- Roland V-800HD Mutli-format Video Switcher
  - 8 Channel, 16 Input (4 SDI, 4 Composite, 4 DVI-I/HDMI, 4 RGB/Component)
  - 6 Output (2 SDI + 2 DVI-D/HDMI + RGB/Component + Composite)
  - Multiviewer HDMI Output
- 2 MacBook Pro Laptop Computers
- 2 DSan Perfect Cue Mini

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## Props

### Orchestra Pit

Orchestra pit is (57L x 12W radius design) 530sq. ft. – variable depth to 10' below stage level.  
Static load capacity: 80,250 lbs. Lifting load capacity: 26,750 lbs.  
Orchestra Shell width at Proscenium: 53' 8"

### Music:

**Chairs:** 200 Wenger padded black chairs (subject to availability)

**Music Stands:** 200 Wenger music stands (subject to availability)

**Stand Lights:** 200 stand lights (subject to availability)

**Conductor Podium:** Wenger 2-step podium with conductor music stand (subject to availability)

### Orchestra Shell:

Oak veneer, Wegner orchestra shell. See attachment for stage setup and storage locations.

### Platforms:

24 Wenger 4'x8' platforms (subject to availability)

8 Wenger 4'x4' platforms (subject to availability)

Legs to raise platforms to 8", 16" and 24" heights

### Dance Floor:

6 sections of Rosco dance floor: 5' x 60'

### Lecterns:

2 Dalite black podiums (subject to availability)

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## **Wardrobe**

### **Dressing Rooms:**

- 1 star dressing room with shower and bathroom, located in the US hallway 1<sup>st</sup> floor.
- 1 dressing room (4 person capacity) with shower and bathroom, located in the US hallway 1<sup>st</sup> floor.
- 3 chorus dressing rooms (8-10 person capacity) with showers (2) and bathroom, located on the 2<sup>nd</sup> floor.

### **Wardrobe Area:**

- Main laundry facility is located on the 2nd floor. This is shared between all theaters at the Mesa Arts Center and is subject to availability.
- Single Washer/Dryer may be available adjacent to Playhouse greenroom. Contact tech department for availability.
- 1 clothes rack is located in each dressing room. 6 more racks may be available in wardrobe room (based on availability)
- 3 iron and 3 ironing boards (based on availability)
- 6 steamers (based on availability)
- 2 Whirlpool washing machines (based on availability)
- 2 Whirlpool dryers (based on availability)

### **Musician Warm Up Room/Multipurpose Room:**

- Shared between all theaters at the Mesa Arts Center (Available based on other theaters' needs)
- Located in US 1<sup>st</sup> Floor Hallway
- Sound Dampened