



## **TECHNICAL INFORMATION PACKET**

As of December 21, 2015

## Sound

### General Description:

Front of House: An active, three-way, full range, stereo system with front stacks left and right of the proscenium in side boxes, with an auxiliary balcony fill system stereo left and right above side boxes and a mono center fill system from stage lip. The sound booth has a complete compliment of necessary system drive components, record-playback devices, digital effect processors, and audio analyzer. The mixing position is fifty-six feet from the front edge of the stage.

<b>Mixers:</b>	1	Soundcraft Vi6 <b>Digital</b> live sound console, 64 mono input channels,
		35 outputs, 24 insert pairs, 32 group/aux/matrix busses, and the main
		left/right/center and left/right busses. 16 VCA groups, sweep-able four band parametric equalizer, compressor/limiter, phantom power, gate, and de-esser on all input channels.
<b>Tape Decks:</b>	1	360 Systems 4hr Instant Replay hard disk record/playback
	1	Marantz PMD 502 Cassette
	1	Sony MXD-D3 CD player, Mini-Disk Recorder
	1	Panasonic 3800 DAT Recorder
	1	Technics SC 1200 MK II direct drive turntable
	1	Tascam CD-RW2000 CD Recorder
<b>Speakers:</b>	4	Mains-Meyer CQ-2 Self-Powered Speakers 1240 Watts each, 15" woofers, 4" Horn driver
	2	Sub Woofers Meyer 650P Self-Powered 1240 Watts each, double 18"
	4	Meyer UPM-1P Self-Powered Stage Lip Fills
	4	Balcony fill speakers Meyer UPM-1A Self-Powered
	4	OAP LF118 Sub Woofers with 18" JBL 2241Gs
<b>Equalizers</b>	2	Klark Teknik DN370 Two channel, 31 band Equalizers
<b>Compressor/Limiters:</b>		Built-in on every input channel of the Soundcraft Vi6
<b>Processors:</b>	1	Meyer Sound Galileo 408 digital crossover/processor
<b>Gates:</b>		Built-in on every input channel of the Soundcraft Vi6
<b>Analyzer:</b>	1	SA 3050 A Spectrum Analyzer (audio control) SPL meter

## Monitor System

### General Description:

The stage monitor mix system is based around a Soundcraft Vi3000 monitor console. Each input channel has four band parametric equalization with 15db cut or boost, adjustable band width, highpass filter, PFL, mute, insert points and cue function. Each mix has a 31 band graphic equalizer in line. Monitor speakers are processed, biamped and properly powered for optimal performance.

<b><i>Mixer:</i></b>	1	Soundcraft Vi3000 Monitor Console
<b><i>EQ:</i></b>		BSS 31 band built into all outputs of the Vi3000 console
<b><i>Amplifiers:</i></b>	13	Crown IT5000HD
	1	Crown IT9000HD
	2	Crown K2
	2	Crown K1
	2	JBL MPA1100
<b><i>Speakers:</i></b>	12	Martin Audio LE1200S Two-way stage wedges
	2	Martin Audio LE1500S Two-way stage wedges
	3	EAW SM500M wedges Bi-amped
	4	Meyer UM-1P self powered wedges
<b><i>Effects:</i></b>	1	TC M-one digital reverb/effects Processor
	1	Lexicon PCM-91 Digital Effects Processor
	1	Lexicon PCM-81 Digital Effects Processor
	1	T.C. Electronics D 2 Digital Delay Line
<b><i>Processors:</i></b>		Built in to the Crown IT5000HD, IT9000HD amplifiers
<b><i>Microphone Stands:</i></b>		
	10	K&M Tripod base, black
	12	Atlas 10" round base tall stands, black
	4	Atlas 12" round base tall stands, black
	13	Atlas 10" round base short stands, black
	29	K&M Telescopic Boom arms, black
	2	Atlas 12" round base with booms chromed
	6	Atlas 6" Desk stands, black
	2	K & M Tripod with Boom, chromed

***Wireless Microphones:***

4 Shure U4D-UA Dual Channel UHF  
8 Shure U1 Bodypack transmitters  
8 Shure U2 Hand held transmitters w/ beta 58  
8 Shure WL 50 Omnidirectional lavalier mics  
1 Shure WL185 Cardioid lavalier mics  
4 Lectrosonics DR185 Diversity receiver  
4 Lectrosonics T187 hand held microphone  
4 Lectrosonics M185 body packs  
6 Countryman Isomax E6 headset microphones

***Microphones:***

4 Shure Beta 98 D/S  
6 Shure SM81  
5 Shure SM58  
6 Shure SM57  
6 Shure BETA 57  
6 Shure BETA 58  
5 Shure BETA 87A  
3 Shure Beta 87C  
5 Sennheiser MD 421  
2 AKG D-112  
4 AKG C-451  
1 AKG C-414 B/TL-2 Large Cap Condensers  
1 Applied Microphone Technologies M-40 Piano Microphone  
3 Audio Technica AT849 Stereo Boundary  
2 Audio Technica AT895 Shotgun Mics  
4 Audio Technica ES935/ ML Podium Mics  
2 Audio Technica ATM450 side address, Small Capsule Condenser  
12 Countryman active Direct Boxes  
1 Whirlwind pcDI stereo Direct Box  
4 Passive Whirlwind Director Direct Boxes

***Backline Gear:***

1 Ampeg SVT3Pro 450 Watt Bass Amplifier  
with Ampeg SVT 410HLF 4x10" Speaker Cabinet  
1 Fender Twin Reverb Guitar Amplifier  
1 Fender '65 Re-Issue Deluxe Reverb Guitar Amplifier  
1 Fender '65 Re-Issue Twin Reverb Guitar Amplifier  
1 Steinway Model D 9' Concert Grand Piano, Polished Ebony Finish  
1 Kurzweil PC2X, 88 key, touch sensitive keyboard/workstation

***Communications:***

1 Telex BTR wireless station with four belt packs  
1 Clearcom MS-440 4 channel base station  
1 Clearcom 2 channel Base Station  
12 Beyer Dynamic DT 108K single muff headsets  
6 Clearcom CC-95 single muff headsets

4	Clearcom CC-26 ultra-light headsets
12	Clearcom 501 Beltpacks
2	Telephone handset
3	Clearcom single muff headsets
6	Beyer Dynamic DT 109K double muff headsets

### **Lighting Consoles**

1	Gio 2000 Lighting Console
1	*High End Road Hog Light Console

\*Operator must have current training and be proficient in the proper use of this unit. Wheeler Opera House will supply suitable staff if needed.

### **Special Effects/Automated Fixtures**

2	LeMaitre G-300 smoke and haze machines
1	LeMaitre Liquid CO2 low fog box for G-300
8	Clay Paky Alpha Wash 300 Wash Luminaries
4	Clay Paky Alpha Spot HPE300 Luminaries
4	Studio Spot 250 Luminaries
30	Wybron CXI Color Changers
30	CXI mounting plates to Source 4 Ellipsoidal
18	CXI mounting plates to Source 4 Par
4	Colorram II power supply PS 600 (model #20240 – 600 watts)
6	Rosco I-Cue Moving Mirror Accessory for ETC Fours
1	PSU-200 Power supply for Rosco I-cue moving mirrors
2	Wildfire Blacklight 400w Long Throw flood with Eclipse II iris douser
1	MDG-Atmosphere portable haze system
6	Altman Spectra Cyc LED wash
5	Selador X7 Cyc Wash
4	Color Kinetics Color Blaze 72”
6	Color Kinetics Color Blast 12”
7	Ocean Optics Sea Changer Profile Units
18	Ocean Optics Sea Changer Wash Units

### Conventional Lighting Instruments Total

46	ETC Source Four Pars	W,M,N,VN	750w
155	ETC Source Four Leko Bodies		total
86	ETC Source Four Leko Bodies		750w
71	ETC Source Four Leko Bodies		575w
52	ETC Source Four Junior Zooms	25-50 degree range	575w
39	ETC Barrels	19 degrees	
63	ETC Barrels	26 degrees	
67	ETC Barrels	36 degrees	
12	ETC Barrels	50 degrees	
6	ETC Source Four Zoom	15-30 degree range	750w
6	ETC Source Four	10 degrees	750w
8	L&E CYC strip lights	3 circuit	750w

### Conventional Lighting Instruments in Repertory

36	ETC Source Four Pars	W,M,N,VN	750w
100	ETC Source Four Leko Bodies	(57 are 750w and 43 are 575w)	
32	ETC Source Four Junior Zooms	25-50 degree range	575w
30	ETC Barrels	19 degrees	
34	ETC Barrels	26 degrees	
32	ETC Barrels	36 degrees	
4	ETC Barrels	50 degrees	
6	ETC Source Four Zoom	15-30 degree range	
6	ETC Source Four	10 degrees	750w
4	L&E CYC strip lights	3 circuit	750w

### Conventional Lighting Instruments in Storage

20	ETC Source Four Junior Zooms	25-50 degree range	575w
29	ETC Source Four Leko Bodies		575w
26	ETC Source Four Leko Bodies		750w
9	ETC Source Four Barrel	19 degree	
29	ETC Source Four Barrel	26 degree	
35	ETC Source Four Barrel	36 degree	
8	ETC Source Four Barrel	50 degree	
10	ETC Source Four Par	Full Lens Kit	750w
4	L&E CYC striplights	3-circuit	750w

## Lighting Accessories

24	Single Sidearms
6	Source Four Color Extenders
6	Source Four Half Hats
50	ETC Pattern Holders (30 A size, 20 B size)
14	Boom Bases.
6	Dance Booms, which attach to ladders SR and SL.
12	Drop in Iris for ETC Source Four
2	Color Boomerangs for ETC Source Four

## Projection Equipment

### *Screen:*

1	12' 6" high x 28' 0" wide front screen with all ratios: 1:33, 1:65, 1:85 and cinemascope
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### *Projection System:*

1	Christie CP2220 DCP Projector
1	Christie IMB
1	Sanyo PLC-XU116 XGA Ultra-Portable Multimedia Projector
1	Panasonic PTDW10000U full HD 1080p DLP (10,000 ANSI/Lumens)
1	Sony J-3 Compact Player (plays Betacam SP/Betacam SX/ MPEC IMX/Digital Beta)
1	Sony HDWM2100 HDCAM Studio Player with multi-format playback
1	Sony WDV/DVCAM HVRM35U HDV/DVCAM Video Tape Recorder
1	Sony DSR-45 DVCAM player/recorder
1	Panasonic DMP-BD65 Blu-ray Player
1	Marshall V-R72P-2HDA dual HD video monitor
1	Marshall VMD563 Triple 3RU HD video monitor

## Additional Equipment

### *Platforms:*

12	4' x 8' platforms with 8", 16", 24", 32" legs for each
5	4' x 6' platforms with 8", 16", 24", 32" legs for each
4	3' x 6' platforms with 8", 16", 24", 32" legs for each
1	4' x 4' 9" platform with 8", 16", 24", 32" legs for each

### *Ladders:*

4	Fiberglass step ladders (6', 8', 10' & 12')
1	JLG self-propelled, Self-Driven Lift 20'
1	JLG 30' single man lift, AC powered

## Electrical

### *Supply:*

- Stage voltage is 120v AC.
  - Stage outlets are rated at 20 amps.
  - Stage connectors are 120v, 20-amp stage pin.
  - Stage dimmers: 1-249: 20 amps 2.4 kW dimmer per circuit.
  - All control signals are DMX-512 protocol.
  - 3 Optosplitter boxes for DMX-512
  - There are 18 non-dim outlet circuits.
- There are 7 additional non-dim modules for placement in any circuit.
- Company switch / touring box:
    - 1 - 100 Amp 3-Phase 110-208V panel located at Stage Right
    - 1 - 200 Amp 3-Phase 110-208V panel located at Stage Right
    - 2 - 200 Amp 3-Phase 110-208V panels located in the Basement
    - 1 - 100 Amp 3-Phase 110-208V panel located in Parking Lot

### *House does not supply feeder cable.*

- Sensor rack dimmers 260-265 and Paradigm system control house lights.
- House light panels are located on balcony level, at the stage manager's desk SR, and at the back of the house. House light remote system available at sound desk, stage managers desk and House left light booth.



## **Loading Dock and Door**

Door size: 8'-0" wide by 16'-0" high  
Location: Northwest corner of building

Dock is an 8'-0" wide by 12'-0" long by 16'-0" high elevator with an 8,000 pound capacity that stops at all floors. Doors to elevator are 16'-0" high at stage and outside dock level and 14'-0" inside dock storage room. All other doors are 6'-6" high.

**Please be advised: Semi-tractor trailer rigs over 48' cannot access the loading dock.**

## **Dressing Rooms**

Located 1 and 2 floors below stage level.

There is one dressing room one level below stage, which has a private shower and restroom, and can accommodate up to three people. The Green Room is also on this level.

There are four dressing rooms two levels below stage, one being a chorus room accommodating fourteen people. The others can accommodate an average of 3-5 people each.

Each dressing room contains adequate mirrors, incandescent lighting, tables, chairs, and costume racks. All dressing rooms have restrooms and showers within close proximity. Each dressing room has at least one sink.

## **Auditorium Seating**

Orchestra	367
Balcony	137
Total	504

## **Stagehand Labor**

The Wheeler is a non-union house. However, a minimum Wheeler crew made up of well-qualified non-union labor is required for all events.

## **Stage Dimensions**

Proscenium Width:	27'-11"
Proscenium Height:	17'-3"
Stage Depth:	26'-3" (back wall to plaster line)

Apron:	3'-4" (at deepest point)	
Wing space from center line:	Stage Left:	25'-3"
	Stage Right	36'-4"
Curtain line to back wall:	Act Curtain	24'-6"
Floor to grid:	First 5' 0" Downstage	23'-2"
	Rest of stage	21'-1"

Floor: Tongue and groove oak painted black, nails are not permitted, stainless steel screws and lag bolts are allowed if resulting holes are appropriately plugged after show.

### **Orchestra Pit Dimensions**

Open 23'-3" x 30'-0"

### **Battens**

The house has 29 combination chain and wire rope linesets; counterweight is by 1/4 ton and 1/2 ton chain motors. Line sets fly out to about 19'-6". (Proscenium height is 17'-3")

Pin rail is located on stage level, stage left. There is a small pin rail stage right downstage that controls rolldrop and tab curtain control.

### **Draperies and Masking**

Act curtain and grand teaser are a deep brick color. The Act curtain travels; the traveler control is located DSR.

Available Soft Goods:

6 - Black Borders	4'0" x 36'0" (flat)
6 - Sets black velour legs	8'6" x 18'0" (flat)
2 - Full stage blacks on travelers	36'0" x 18'6" (60% full)
1 - Black sharktooth scrim	17'6" x 32'0"
1 - White seamless muslin cyc	18'6" x 38'0"

## Line Set Schedule

<u>Line Set #</u>	<u>From Proscenium</u>	<u>Use</u>	<u>Motor</u>
#1	1'0"	Grand Valance	¼T Rigstar
#2	1'8"	Grand Drape	½T CM Lodestar
#3	2'4"	#1 Border	
#4	3'0"	1 <sup>st</sup> Electric	½T CM Lodestar
#6	4'4"	Batten	¼T Rigstar
		Electric Motorized 2-Way Traveler, #1 Leg Set, Automated Control	
		Electric motorized Stewart Movie Screen, Automated Control	
#7	6'4"	#2 Border	¼T CM Lodestar
#8	7'9"	Batten	¼T CM Lodestar
#9	9'0"	2 <sup>nd</sup> Electric w	½T CM Loadstar
#10	9'8"	2 <sup>nd</sup> Leg Set	¼T CM Lodestar
#11	10'4"	#3 Border	¼T Rigstar
#12	11'0"	Traveler 2-way	½T CM Loadstar
#13	11'8"	Batten	¼T Rigstar
#14	12'4"	2-A Electric	½T CM Lodestar
#15	13'0"	Batten	¼T Rigstar
#16	14'4"	3 <sup>rd</sup> Electric	½T CM Lodestar
#17	15'0"	#4 Border	¼T CM Lodestar
#18	15'8"	#3 Leg Set	¼T CM Lodestar
#19	16'4"	Traveler 2-way	½T CM Lodestar
#20	18'0"	3-A Electric	½T CM Lodestar
#21	18'8"	Batten	¼T Rigstar
#22	20'0"	4 <sup>th</sup> Electric	½T CM Lodestar
#23	20'8"	#4 Leg Set	¼T CM Lodestar
#24	21'4"	#5 Border	¼T Rigstar
#25	22'0"	Black Scrim 1-way	1/4T CM Lodestar
#26	22'8"	5 <sup>th</sup> Electric	½T CM Lodestar
		Motorized Roller dead hung to grid, automated control	
#28	24'8"	Traveler 2-way	½T CM Lodestar
<b>#29</b>	<b>25'4"</b>	<b>Cyc 1-way</b>	<b>1/2T CM Lodestar</b>

### Building Location

Address: 320 East Hyman Avenue  
 Aspen, Colorado 81611  
 (Corner of Mill St. and Hyman Ave. facing South)