

Bardavon 1869 Opera House



Technical Information

General Stage Information:

<i>Number of seats in house:</i>	944, 928 with mix position installed
<i>Proscenium width:</i>	34'
<i>Proscenium height:</i>	22'
Stage dimensions:	
<i>Plaster line to US wall:</i>	23'
<i>Plaster Line to Edge of Apron</i>	3'6"
<i>Plaster Line to Edge of Thrust</i>	11'6"
<i>Stagehouse wall to wall:</i>	80'
<i>Stage Right wing:</i>	200 square feet
<i>Stage Left wing:</i>	250 square feet
<i>Loading Door:</i>	9' H x 5' 10" w
<i>Orchestra Pit:</i>	6' H x 30' w
<i>Pit to House Floor:</i>	+1'8"
<i>Pit to Stage Floor:</i>	-4'10"
<i>Balcony Rail to Plaster Line:</i>	46', 15 degrees up
<i>FOH Booms to Plaster Line:</i>	70', 30-40 degrees up
<i>Organ Lofts to Plaster Line:</i>	12', 45 degrees up
<i>Crossover:</i>	Below the Stage
<i>Fly Rail:</i>	Stage Left at 24' from deck
<i>Grid height:</i>	56' free
<i>Pipe trim out:</i>	42', 1 ½" Sched. 40
<i>Number of line sets:</i>	36
<i>Stage floor is Wood Floor. Marley available.</i>	
<i>Rigging is 5/8" polyester Rope and Sandbag.</i>	

Soft Goods Inventory:

<i>Main Curtain</i>	1	Traveler only, SL control on deck
<i>Grand Teaser</i>	1	18' to 22' Trim
<i>Black legs</i>	4 sets	22' H x 12' W (on travelers, w/ tabs)
<i>Black borders</i>	4	8' H x 42' W
<i>Full stage black</i>	1	22' H x 42' W
<i>Black scrim</i>	2	22' H x 42' W
<i>White cyclorama</i>	1	22' H x 42' W
<i>Commando Cloth</i>	1	22' H x 42' W



Dressing Rooms:

<i>3 below stage (2 basic, 1 with toilet/shower)</i>
<i>Small chorus area between dressing rooms</i>
<i>Washer & dryer below stage, off dressing rooms. Steamers, iron & ironing boards available.</i>
<i>Additional space can be arranged for dressing rooms if required. Please inquire prior to arrival.</i>
<i>Paging, Program and Video to Dressing Rooms is available.</i>

Rigging Information:

Rigging is 5/8" polyester Rope & Sandbag	
<i>Line sets</i>	36
<i>Pipe Length</i>	42'
<i>Pipe trim out height</i>	42', 1 1/2" Sched. 40
<i>Grid height</i>	56' free
<i>Grid maximum floor live load:</i>	30PSF
Max Loading Per Batten:	
<i>Distributed load along pipe:</i>	17 lbs per linear foot
<i>Single point midspan between picks:</i>	110 lbs
<i>Two point loads at third points in span:</i>	85 lbs each
<i>Exceeding the above will bend the batten pipe!</i>	
<i>Point load at any one pick:</i>	300 lbs
<i>Total batten loading:</i>	300 lbs

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Line Set Schedule & House Hang:

Line	Distance from Plaster Line	Purpose	Weight (lbs)	Trim Height	Notes
1	6"	Fire Curtain			
2	1'	Main Curtain			Split at center
3	1' 9"	1 st Electric			Cir 67-90
4	2' 9"				
5	3' 3"				
6	3' 6"				
7	4' 1"	Movie Screen			
8	4' 8"	1 st Border			
9	5' 2"	1 st Legs			Fixed Lineset
10	6' 3"	2 nd Electric			Cir 91-114
11	7' 0"				
12	7' 5"				
13	8' 6"	DS Works			Fixed Lineset
14	9' 6"				
15	10' 4"	2 nd Border			
16	10' 9"	2 nd Legs			
17	11' 3"				
18	11' 11"				
19	12' 6"				
DL	13' 2"	Drop Line			
20	13' 9"	3 rd Electric			Cir 115-138
21	14' 10"				
22	15' 3"	3 rd Border			
23	15' 10"	3 rd Legs			Fixed Lineset
24	16' 6"				
25	16' 10"				
26	17' 3"	US Works			Fixed Lineset
27	17' 9"	4 th Electric			Cir 139-162
28	18' 9"				
29	19' 3"				
30	19' 8"	4 th Border			
31	20' 3"	4 th Legs			Fixed Lineset
32	20' 9"	Black Scrim			
33	21' 3"	5 th Electric-Strip			Cir 163-174
34	22' 3"				
35	23' 3"	Main Black			
36	23' 7"	White Cyc			

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LIGHTING, SOUND, & VIDEO

Lighting:

<i>Main dimmer rack: ETC SENSOR</i>	192-2.4k dimmers
<i>5 electrics</i>	24 circuits on 1E-4E
<i>Deck Circuits</i>	20 per side
<i>FOH Circuits</i>	12 per Balcony Boom, 30 on balcony rail
<i>Organ Loft Circuits</i>	6 per Organ Loft
<i>Light board:</i>	ETC Ion with 40 fader wing section

Lighting Inventory:

2	Lycian Super-Arc 400
4	6' R40 strip lights 300w
5	8' Chroma Q Color Force 2 RGBA LED strip lights (5th Electric)
50	S4 Par 575 W (w/ 4 lens set)
12	Source 4 Ellipsoidal 19 deg 575w (FOH Booms)
16	Source 4 Ellipsoidal 14 deg 575w (FOH Booms)
52	Source 4 Ellipsoidal Units 575w
22	26 deg. lens tubes
22	36 deg. lens tubes
4	19 deg. lens tubes
4	50 deg. lens tubes
4	Wybron ColorRam 32 color scrollers & brain (leko mount)
0	A size pattern holders
20	B size pattern holders
1	S4 drop in iris
10	18" sidearms
20	12" sidearms
8	6" barn doors
0	8" barn doors
16	Top hats
8	10' booms w/ 50# bases

Stage Pin Cable:

10	125'
10	100'
15	75'
15	50'
15	40'
0	35'
20	25'
15	20'
20	15'
20	10'
20	5'
40	Two-fers

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Power:

<i>Lighting tie-in:</i>	400 amp/3 phase/Stage Left
<i>Audio tie-in (isolated ground):</i>	200 amp/3 phase/ Stage Left-Bare Tail
<i>Shore Power:</i>	(2) 60 amp/3 phase/Outside SL-Bare Tail

Video: (available for an additional rental fee)

<i>Projector:</i>	Panasonic PT-DW10000U: 4 lamp, 3-chip 1080i HD
<i>Video Switcher:</i>	SHINYBOW 2X4 I/O COMPONENT SWITCHER
<i>LCD Monitor:</i>	Sanyo DP19649
<i>Blue-Ray Disc Player:</i>	Onkyo DV-BD606
<i>Movie Screen:</i>	20' H x 34' W perforated hung +3' 6" from Plasterline
<i>Film Projector:</i>	Xetron XCN-35 3000w platter system 35mm film projector with 1.33, 1.85 and 2.35 Anamorphic aspect lenses. Centry projector head
<i>Film Projector:</i>	Eiki EX-6000 16mm film projector
<i>Film Plane:</i>	87' to center screen at 18.5 degree down angle
<i>Audio:</i>	All projectors tie into house PA for audio

Comms and Monitoring:

<i>Comm Units:</i>	(8)	Clear-Com Wired units
<i>Stage Video Monitors:</i>	SL Located at SM position:	Sanyo
<i>Static Camera:</i>	Mounted under balcony	

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Sound:

<i>FOH Console:</i>	Allen and Heath QU32 digital mixer, with QU Pad remote control capability, and onboard direct to USB multi-track recording capability.
<i>Alternate FOH Console:</i>	Presonus StudioLive 32.4.2 AI, with Universal Control software and iPad SL Remote control capability.
<i>Backup Analog Console:</i>	Midas Venice 320, through 4 channels of DBX 31 band graphic WQ, 4 channels of patchable DBX 266 compression and a Yamaha SPX90 digital effects processor.
<i>Backup Console:</i>	Yamaha 01V Digital Mixer
<i>Dedicated Audio 20 amp circuits located:</i>	DSL, DSR, Pit, FOH, Amp room (SR wing)

Additional Rack Units:

	EQ:	Ashley Protea 4.24GS Remote for 8 mix graphic EQ's
	Compressor/ Limiters:	Band Graphic WQ, 4 channels of patchable DBX 266
	<i>CD/Cassette Combi-Deck:</i>	N/A
	<i>CD Recorder:</i>	N/A

Mics:

<i>Wired Mics:</i>	(4)	Shure SM 58
	(1)	Shure SM 57
	(1)	Shure SM 48
	(1)	Shure Beta 57
	(3)	Shure Beta 58
	(2)	Shure Beta 87A
	(3)	Crown PCC
	(2)	Crown PZM 6LBP
	(2)	AKG 451EB
	(2)	AKG SE300 B
	(1)	AKG D160E1
	(1)	AKG D330BT
	(1)	AKG D112

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<i>Wired Mics:</i>	(2) Shure SM 58A HH
	(2) Shure Lavaleirs
	(2) Sennheiser MD421
<i>Installed Audio Snake:</i>	XLR Snake (40x8, 40 inputs w/ 8 returns) w/ wall mounted stage box in DSL wing. Veam Split stage box to male tails at FOH, and to male tails at SR or SL Phantom power can be provided by FOH or Monitor World
Primary PA Spec:	
<i>Flying system:</i>	EV XLC Bi-Amp Line Array, 90 Degree horizontal throw. Vertically tuned, 8-box per side array. Complete and even coverage of venue at high dB-SPL output
<i>Flying Array Amps:</i>	(6)Crown XLS 2002 amps in Bi-Amp mode
<i>Array Zones:</i>	Independent low and mid/high adjustment on the bottom three, mid three, and top two boxes.
<i>Subwoofers:</i>	(4) EV QRx 218s (two per side)
<i>Sub Amps:</i>	(2) Crown XLS 2502 amps in passive mode (One amp per side)
<i>Center Fills (mono):</i>	(4) EAW JF60 Passive Front Fills
<i>Fill Amp:</i>	Crown XLS 1502 amp, daisy chained, can be stereo configured
<i>Processing:</i>	(2) DBX DriveRack VENU360's laptop controlled wirelessly from anywhere in the venue, primarily located at FOH
<i>Ground Stack System (secondary, used as backup or supplemental):</i>	
<i>Mains:</i>	(4)EAW LA215 600w loudspeakers (2 per side), daisy chained on DSL and DSR, in front of proscenium
<i>Main Amp:</i>	Crown SX900 amp in passive mode
<i>Center Cluster (mono):</i>	(4) EV EVF-D 15 passive loudspeakers; yoked to truss just above center top of proscenium.
<i>Center Zones:</i>	Center 2: Coverage of 1 st 5 rows of center orchestra Outer 2: Coverage of entire balcony Fed from separate mono mix
<i>Center Amp:</i>	(2) Crown SX900 amps in passive mode, each box independently driven

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Center Fills:	(2) EAW JF60 passive fills, can be used as front/side fills or stage monitors
Fill Amp:	Crest Audio Pro 7200 amp
<i>Monitors:</i>	
Floor Wedges:	(6) Clair Brothers Bi-Amp
Floor Amps Low:	(4) CVX15 QSC amps
Floor Amps High:	(4) CVX12 QSC amps
Processing:	UF-2 QSC Processor
<i>Misc:</i>	
Accessories:	Assorted NL4 cable, stage sub snakes, mic cable, mic stands, clips, etc.
When our PA is not in use:	Access to our cluster & fills via female xlr connections at FOH & DSR