

Scenic Theatre Audio System Proposal

Tech Crew Productions, LLC

The following audio system has been designed for The Scenic Theatre, home of The Pittsfield Players. The individual components of this system can be grouped into sub-systems, each with unique marginal benefits when purchased in a logical order. The following subsystem sequence is intended to initially augment the theatre's currently borrowed gear, then introduce replacements for the gear being borrowed. At present, The Scenic owns no audio infrastructure but has been permitted to use speakers, amplifiers, and related equipment owned by Tech Crew Productions, LLC.

Sub-System Purchase Order:

- i. Assorted Cable & Connectors – Materials to create custom length Ethernet, XLR, Instrument, and Speak-On cables.
- ii. Overhead Choir Mics - Target zones of sound pick-up on the stage. Good for amplifying ensembles.
- iii. Digital Sound Board and Stage Box - Allows 16 audio sources to be sent from the stage to the booth for mixing. 8 output signals can be returned to the stage, mixed for their unique purposes. This output can feed house speakers, subwoofers, and stage monitors (through amplifiers). The output signal can be processed digitally, allowing for control of the sound without need for physical filtration equipment such as graphic equalizers or compressors. This board has advanced programming features, and also customizable levels of access. An autopilot-like feature can be used to help a volunteer mix mic levels with little training.
- iv. House Speakers - With accompanying amplifier and wall mounts, this pair can be set high in the front of house, and can be targeted to evenly distribute sound to the audience.
- v. Stage Monitors - With accompanying amplifier, these two wedge speakers can be positioned on the stage to provide the performers with a custom mix of sound to assist with synchronicity.
- vi. Subwoofers - Speakers dedicated for low end sound, or bass. These subwoofers can be stored off stage, but be brought out when added fullness of sound is desired. Good for music-centric engagements.
- vii. SM58 Wired Microphones - This Shure microphone is a time-tested staple of live sound. The dynamic vocal mic provides good rejection of stage noise, so a presenter or performer can be heard amidst a loud environment. The SM58 is useful for picking up some instrument's sounds as well as vocals.
- viii. Over Ear Wireless Mics - A low profile earpiece and body pack transmitter allow stage performers to roam around while remaining clear and presenting speech

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or song. Ideal for lead roles. Choir mics hung above the stage can be used to target the ensemble.

- ix. Accompanied by 8 wireless receivers, 2 directional antennas, and 2 power/signal distribution units to manage the receivers.
- x. Wireless SM58s - Wireless version of the SM58 Dynamic Stage Microphone. The built in transmitters can be paired with the existing receivers of the previously mentioned wireless over ear microphones. This means that additional infrastructure is not required, but only 6 Over Ear Mics could be used if both wireless SM58s are desired.

When the system is complete, the theatre will be able to have 8 lead roles and an ensemble amplified through the house speakers at once. At the same time, there would still be 4 open sound channels, and 4 available handheld mics to send through those channels.

The theatre will also be well suited to host musical performances, where each member of a 6-person band could have their own over ear vocal mic and handheld (mounted on stands, 4 wired, two wireless) instrument mic. This same 6-person band could also have a small choir with them, amplified by the hanging microphones.

If desired down the line, the theatre can expand upon this system by purchasing [4 Wireless Microphones, 4 Receivers, 1 distribution hub].

This would make for a total of 12 wireless microphones (and the 4 overhead mics) to be used congruently.

Additionally, the sound mixer and the stage box can both be duplicated and cascaded together. This would make for a total of 32 mic channels, and 16 stage outputs.

Questions or comments regarding this proposal may be submitted to the form located at www.techcrewproductions.com/contact .

Cordially,

Nathan Schrider
Tech Crew Productions, LLC

February 1, 2024

PARTS LIST

Qty.	Item	Description	Retail Price	Your Price	Total
		FREE 2 YEAR WARRANTY			
		FREE SUPPORT COVERAGE			
		Total Confidence Coverage			
1	AB168ear	Allen & Heath AB168 Rkmt Kit http://www.sweetwater.com/store/detail/AB168ear/	\$139.99	\$109.99	\$109.99
1	OSR24	Middle Atlantic Products 24U 23"D OSR Sloped Rack w/Casters, Oak http://www.sweetwater.com/store/detail/OSR24/	\$691.00	\$621.90	\$621.90
1	AB168	Allen & Heath 16x8 Stagebox for Qu/SQ/Avantis http://www.sweetwater.com/store/detail/AB168/	\$1,799.00	\$1,449.00	\$1,449.00
1	DRW3	Gator 3U Rk Drawer, 14.2" Deep http://www.sweetwater.com/store/detail/DRW3/	\$289.99	\$179.99	\$179.99
2	WSR7025	On-Stage Rack Screws, 25-pk http://www.sweetwater.com/store/detail/WSR7025/	\$10.99	\$6.95	\$13.90
1	SS6Block	Furman 6 Outlet 15A Floor Pwr Cond http://www.sweetwater.com/store/detail/SS6Block/	\$80.57	\$39.99	\$39.99
1	W2552BK-164	Mogami Mic Wire 25ga, Blk - 164' http://www.sweetwater.com/store/detail/W2552BK-164/	\$90.20	\$90.20	\$90.20
16	NC3FXXBAG	Neutrik XLR F 3-pin Cable Conn, Blk/Silv http://www.sweetwater.com/store/detail/NC3FXXBAG/	\$7.95	\$3.67	\$58.72
16	NC3MXXBAG	Neutrik XLR M 3-pin Cable Conn, Blk/Silv http://www.sweetwater.com/store/detail/NC3MXXBAG/	\$6.95	\$3.49	\$55.84
12	TRSMCabCon	Neutrik QTRSM Cable Conn http://www.sweetwater.com/store/detail/TRSMCabCon/	\$3.95	\$2.10	\$25.20
16	NL2FX	Neutrik speakON 2-pole F Cable Conn http://www.sweetwater.com/store/detail/NL2FX/	\$6.95	\$4.29	\$68.64
1	12-2Spk-250	Pro Co Spkr Wire 12ga 2cond 250'	\$423.95	\$221.99	\$221.99

Qty.	Item	Description	Retail Price	Your Price	Total
		http://www.sweetwater.com/store/detail/12-2Spk-250/			
2	VS1220F	Behringer 12" Passive Floor Monitor Spkr	\$159.00	\$159.00	\$318.00
		http://www.sweetwater.com/store/detail/VS1220F/			
2	ZLX15	Electro-Voice 15" Passive ZLX Speaker	\$980.00	\$549.00	\$1,098.00
		http://www.sweetwater.com/store/detail/ZLX15/			
2	ELX200-12S	Electro-Voice 12" Passive ELX Sub	\$1,043.00	\$599.00	\$1,198.00
		http://www.sweetwater.com/store/detail/ELX200-12S/			
2	ZLXBRKT	Electro-Voice ZLX Wall Mount Bracket	\$172.00	\$96.98	\$193.96
		http://www.sweetwater.com/store/detail/ZLXBRKT/			
2	SG-NL4MP-2	AtlasIED Wall Plate 1g, 2 speakON 4-pole, Stainless	\$36.99	\$31.99	\$63.98
		http://www.sweetwater.com/store/detail/SG-NL4MP-2/			
4	WP1009	Pro Co Wall Plate 1g, NL4M x1		\$18.99	\$75.96
		http://www.sweetwater.com/store/detail/WP1009/			
1	XLI1500	Crown 450W 2-ch XLi Power Amp	\$918.16	\$425.00	\$425.00
		http://www.sweetwater.com/store/detail/XLI1500/			
1	XLI3500	Crown 1350W 2-ch XLi Power Amp	\$1,960.85	\$905.00	\$905.00
		http://www.sweetwater.com/store/detail/XLI3500/			
1	XLI2500	Crown 750W 2-ch XLi Power Amp	\$1,192.14	\$565.00	\$565.00
		http://www.sweetwater.com/store/detail/XLI2500/			
1	PLPROC	Furman 8+1 Outlet 20A Rk Pwr Cond w/Lt	\$684.95	\$431.21	\$431.21
		http://www.sweetwater.com/store/detail/PLPROC/			
4	MX202BC	Shure MX202 Overhead Mic, Card, Blk	\$326.00	\$233.00	\$932.00
		http://www.sweetwater.com/store/detail/MX202BC/			
2	BLX2SM58-H10	Shure BLX Wls HH SM58 TXM, H10	\$249.00	\$199.00	\$398.00
		http://www.sweetwater.com/store/detail/BLX2SM58-H10/			
8	BLXRHS53-H10	Shure BLX Wls ES Sys w/MX153, H10	\$729.00	\$599.00	\$4,792.00

Qty.	Item	Description	Retail Price	Your Price	Total
		http://www.sweetwater.com/store/detail/BLXRHS53-H10/			
2	PA805SWB	Shure Passive Directional Antenna 470-952MHz	\$373.00	\$298.00	\$596.00
		http://www.sweetwater.com/store/detail/PA805SWB/			
2	UA844VLC	Shure UA844+V/LC VHF Antenna Splitter	\$748.00	\$534.00	\$1,068.00
		http://www.sweetwater.com/store/detail/UA844VLC/			

4	SM58	Shure Dynamic Vocal Mic	\$129.00	\$99.00	\$396.00
		http://www.sweetwater.com/store/detail/SM58/			
2	MicStdDesk	On-Stage Desk Mic Stand	\$31.99	\$17.95	\$35.90
		http://www.sweetwater.com/store/detail/MicStdDesk/			
12	A58WSblk	Shure Windscreen for Shure Ball Mics, Black	\$8.00	\$5.95	\$71.40
		http://www.sweetwater.com/store/detail/A58WSblk/			
6	MicStdRound	On-Stage Round Base Mic Std, Black	\$51.99	\$29.95	\$179.70
		http://www.sweetwater.com/store/detail/MicStdRound/			
1	MicStdFB2pk	Tripod Mic Std w/Boom 2-pk			
		http://www.sweetwater.com/store/detail/MicStdFB2pk/			
2	MicStdFBoomL	On-Stage Euro Boom Microphone Stand	\$60.99	\$31.49	\$62.98
		http://www.sweetwater.com/store/detail/MicStdFBoomL/			
2	MDR7506	Sony Closed-back Studio Headphones	\$130.00	\$99.99	\$199.98
		http://www.sweetwater.com/store/detail/MDR7506/			
1	Qu16Chrome	Allen & Heath 16-input Qu Chrome Digital Mixer	\$2,499.99	\$1,999.99	\$1,999.99
		http://www.sweetwater.com/store/detail/Qu16Chrome/			

Subtotal: \$18,941.42

Shipping & Handling: \$451.91

Tax: \$0.00

Total: \$19,393.33



SCENIC THEATRE

CAT 6
ETHERNET



CLEAN POWER



16 CHANNEL DIGITAL MIXER

CREW BOOTH



HANGING CHORAL MICS



HANDHELD VOCAL MICS



WIRELESS HEADSETS-



WIRELESS TRANSMITTERS



WIRELESS HANDHELD MICS

HOUSE



MAIN SPEAKERS



SUBWOOFERS



BACK STAGE



OUT TO SPEAKERS

WIRELESS
ANTENNAS



CLEAN POWER



WIRELESS
RECEIVERS

AMPLIFIERS

LOCKING
DRAWER

I/O
STAGEBOX

20U RACK



ON STAGE



MONITORS

