



Proposal To:

Emmett Middle School

Auditorium Sound System w/Subs & Wireless

October 1, 2025

1.2

Prepared by Jacob Apsley

SCOPE OF WORK: EMMETT MIDDLE SCHOOL AUDITORIUM SOUND SYSTEM UPGRADE

Project Description

Valiant Integrations will design and install a professional-grade sound system for the Emmett Middle School auditorium. The primary goal of this project is to improve speech intelligibility and overall audio clarity throughout the space. The new system will be centered on the FBT CLA 406 and CLA 206 active speakers, chosen for their ability to deliver high-definition audio with even coverage across the room.

Objectives

- Enhance speech intelligibility for assemblies, performances, and events.
- Provide consistent, high-quality sound coverage across all seating areas.
- Deploy a system that is reliable, user-friendly, and requires minimal ongoing adjustment.
- Improve the overall audio experience while maintaining simplicity of operation for school staff.

Project Deliverables

1. Initial Assessment and Planning

- Confirm mounting locations for CLA 406 mains and CLA 206 support speakers.
- Evaluate existing infrastructure for compatibility with new system.
- Coordinate with school staff on access and installation scheduling.

2. Design Phase

- Finalize audio system layout using FBT CLA 406 line array columns and CLA 206 support speakers.
- Optimize placement for even SPL distribution and clarity.
- Determine amplifier, processing, and cabling requirements to ensure a seamless integration.

3. Installation and Configuration

- Securely mount FBT CLA 406 & CLA 206 speakers in designated positions.

- Install associated cabling, connectors, and accessories.
- Integrate system with existing audio inputs and school's operating needs.
- Configure system processing for optimal intelligibility and balanced frequency response.

4. Quality Assurance and Testing

- Conduct full system test to verify performance, coverage, and reliability.
- Perform tuning and calibration to maximize clarity for both spoken word and general audio playback.
- Document system configuration and provide as-builts if required.

5. Training and Documentation

- Provide school staff with an overview of system operation.
- Deliver system documentation including wiring diagrams, operating instructions, and recommended maintenance guidelines.

Equipment

- **Speakers:** FBT CLA 406 Active Column Array Speakers, FBT CLA 206 Active Speakers
- **Accessories & Hardware:** Rigging hardware, cabling, connectors, and mounting brackets as needed
- **Processing & Control:** System tuning and DSP configuration included

Equipment Summary

The FBT CLA 406 and CLA 206 active loudspeakers are specifically designed to deliver superior speech clarity and musical reinforcement in auditorium environments. Their controlled vertical dispersion and wide horizontal coverage minimize reflections while ensuring every seat in the room receives balanced sound.

Recommendation

This system has been selected to provide the most effective solution for the school's budget while significantly improving clarity and coverage. The FBT CLA system ensures the space is equipped with a professional-grade sound reinforcement system that will serve the school reliably for years to come.

Wireless Microphone Option

As an addition to the sound system, Valiant Integrations is proposing a wireless microphone package consisting of six Shure wireless microphone systems, each paired with a headset microphone and rechargeable battery packs for dependable operation. Shure is the industry standard for professional wireless systems, chosen for their proven reliability, superior audio quality, and advanced frequency coordination. Unlike cheaper alternatives, Shure systems include features such as automatic frequency scanning and syncing, which greatly reduce setup time and minimize the risk of interference during live use. To further enhance reliability, this system includes an RF Venue diversity antenna system, ensuring strong and consistent signal reception throughout the auditorium. Together, these components create a wireless system that is clear, stable, and built to perform in demanding live environments.

Subwoofer Option

This completes the system for a full frequency response. If this is in the budget we highly suggest this option for the best sound in the room.

Payment Terms

- 50% deposit required to secure equipment.
- Remaining balance due upon project completion and system acceptance.

AUDITORIUM

AUDIO

IMAGE	QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR	LABOR EXT	TOTAL
	4	FBT CLA 406.2 A 2-way Active Line	\$2,708.11	\$10,832.44	\$0.00	\$0.00	\$10,832.44
	2	FBT CLA 206A 2-way Active Line	\$1,925.68	\$3,851.36	\$0.00	\$0.00	\$3,851.36
	2	FBT VT-F 406.2 Flybar for CLA406.2a	\$135.14	\$270.28	\$0.00	\$0.00	\$270.28
	4	FBT VT-J 406 joining bracket for 2 CLA406.2a	\$250.00	\$1,000.00	\$0.00	\$0.00	\$1,000.00
	2	VU Speaker Wall Mount w/Aiming Bar	\$550.00	\$1,100.00	\$0.00	\$0.00	\$1,100.00
	1	Hardware Rigging Supplies Cable, fasteners, spanners, swaging	\$300.00	\$300.00	\$0.00	\$0.00	\$300.00
	200	West Penn Wire D25454BKCUST 1P 22G STR B/SHLD CMP	\$0.14	\$28.00	\$0.00	\$0.00	\$28.00
	4	SuperFlex GOLD SFC-SDXLRM SFC-SDXLRM Male XLR Cable Connector	\$3.99	\$15.96	\$0.00	\$0.00	\$15.96
	2	SuperFlex GOLD SFC-SDXLRF SFC-SDXLRF Female XLR Cable Connector	\$4.99	\$9.98	\$0.00	\$0.00	\$9.98
	1	Installation Tech Instal Labor			\$6,220.00	\$6,220.00	\$6,220.00
	1	On-Stage RKD9000 9U Wall Mount Knock Down Rack	\$300.00	\$300.00	\$0.00	\$0.00	\$300.00
	2	VI Power Cables	\$85.00	\$170.00	\$0.00	\$0.00	\$170.00
AUDIO TOTAL							\$24,098.02

WIRELESS MICS

Valiant Integrations

Confidential Proposal

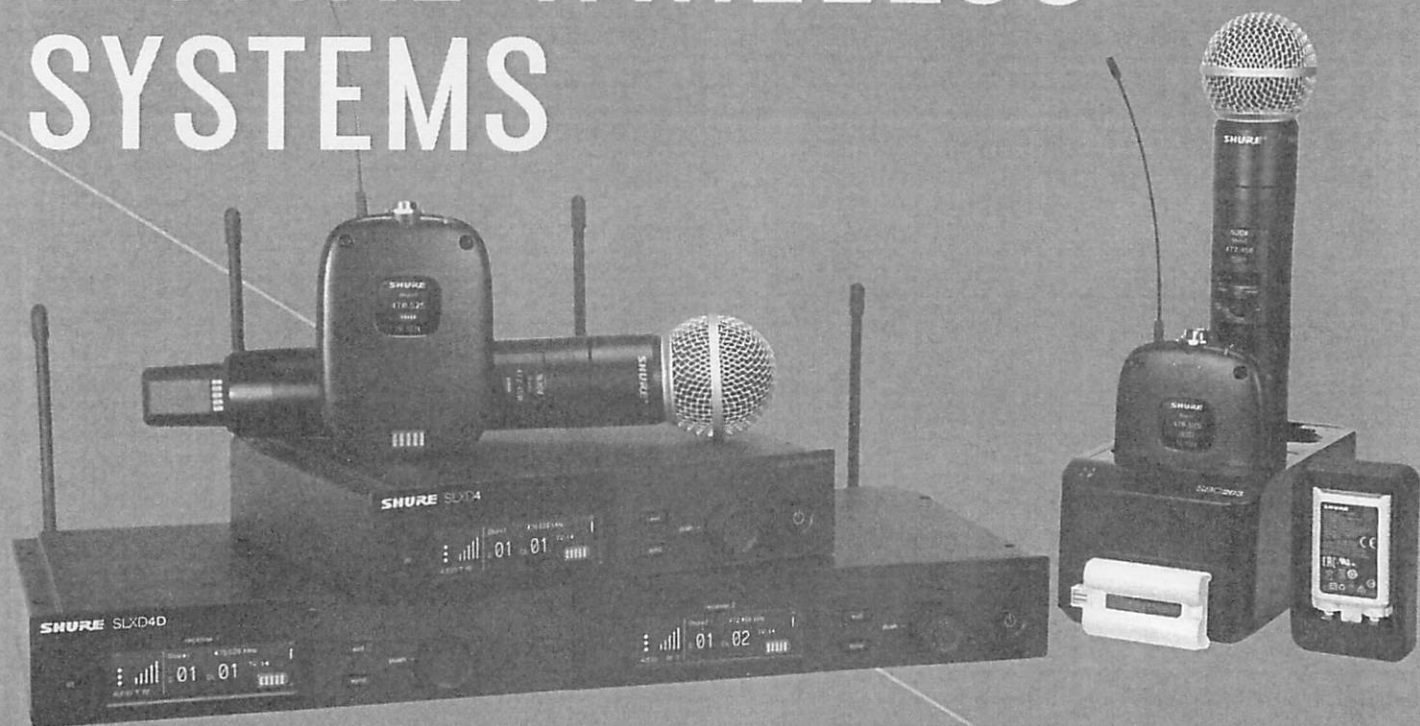
IMAGE	QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR	LABOR EXT	TOTAL
	2	Shure SLXD4Q+G57 SLXD4Q+ Digital 19"" Quad Receiver	\$2,473.75	\$4,947.50	\$0.00	\$0.00	\$4,947.50
	2	Shure SBC203-US Dual Docking Station for SLX-D transmitters and SB903 battery	\$140.00	\$280.00	\$0.00	\$0.00	\$280.00
	6	Shure SB903 Lithium-Ion Battery for SLX-D	\$50.00	\$300.00	\$0.00	\$0.00	\$300.00
	2	RF Venue WRG8X25 50Ω RG8X coaxial cable with BNC male connectors for wireless audio applications.	\$135.00	\$270.00	\$0.00	\$0.00	\$270.00
	1	RF Venue D-ARCB Diversity Architectural Antenna, for Wireless Microphones	\$629.00	\$629.00	\$0.00	\$0.00	\$629.00
	6	Shure SLXD1-J52 Bodypack Transmitter	\$218.75	\$1,312.50	\$0.00	\$0.00	\$1,312.50
	6	JTS Professional CM-8015F Single Ear Headset Microphone, Beige or Black (Omni)	\$177.00	\$1,062.00	\$0.00	\$0.00	\$1,062.00
	1	Black Lion Audio PG-X Power Conditioner	\$119.00	\$119.00	\$0.00	\$0.00	\$119.00
	1	Elite Core PEX610 Fan to Fan	\$78.00	\$78.00	\$0.00	\$0.00	\$78.00
WIRELESS MICS TOTAL							\$8,998.00

SUBS

IMAGE	QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR	LABOR EXT	TOTAL
	2	FBT X-Sub 118SA Bass reflex Active Subwoofer - 18" - 1200Wrms -Plywood cab	\$1,998.00	\$3,996.00	\$0.00	\$0.00	\$3,996.00
	100	West Penn Wire D25454BKCUST 1P 22G STR B/SHLD CMP	\$0.14	\$14.00	\$0.00	\$0.00	\$14.00
	2	SuperFlex GOLD SFC-SDXLRM SFC-SDXLRM Male XLR Cable Connector	\$3.99	\$7.98	\$0.00	\$0.00	\$7.98

IMAGE	QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR	LABOR EXT	TOTAL
	2	SuperFlex GOLD SFC-SDXLRF SFC-SDXLRF Female XLR Cable Connector	\$4.99	\$9.98	\$0.00	\$0.00	\$9.98
	2	VI Power Cables	\$85.00	\$170.00	\$0.00	\$0.00	\$170.00
	1	Installation Tech Instal Labor			\$425.00	\$425.00	\$425.00
SUBS TOTAL							\$4,622.96
AUDITORIUM TOTAL							\$37,718.98

SLX-D DIGITAL WIRELESS SYSTEMS



Your performance should never be in question. Whether presenting, educating, praising or entertaining, your relationship with your audience is singular. With SLX-D Digital Wireless you can stand confidently on a strong foundation and build the wireless installation to match ongoing demands, from day-long conference to nighttime performances.

ALWAYS COME THROUGH CLEAR

In front of an audience, clarity is simply essential. SLX-D provides crystal-clear digital audio quality with >118 dB dynamic range.

DROPOUTS ARE OUT

From the leader in digital wireless technology, SLX-D maintains stable signals with high efficiency for rock-solid, reliable performance.

KEEP THE SHOW GOING

Ready to perform for all-day conferences and nighttime performances—up to 8 hours of use from either 2 AA batteries (included) or optional Shure SB903 Li-ion rechargeable batteries and charging accessories.

APPLICATIONS

Event, Presentation and Speech

House of Worship

Performance and Clubs

PRODUCT HIGHLIGHTS

Extended 20 Hz to 20 kHz frequency range
(microphone dependent)

118 dB dynamic range

Digital predictive switching diversity

44 MHz tuning bandwidth (region dependent)

32 available channels per frequency band (region dependent)

Up to 10 compatible systems per 6MHz TV band; 12
systems per 8 MHz band

Easy pairing of transmitters and receivers over IR scan
and sync

Compatible with Shure Wireless Workbench® control
software

Remote control via ShurePlus™ Channels mobile app

Up to 8 hours from 2 AA batteries or optional Shure
SB903 rechargeable battery

SHURE

SLX-D DIGITAL WIRELESS SYSTEMS

SYSTEM SPECIFICATIONS (SUBJECT TO CHANGE)

RF	
RF Carrier Frequency Range	470-937.5 MHz <i>Varies by Region. See Frequency Range and Output Power Table.</i>
Working Range	100 m (328 ft) <i>Note: Actual range depends on RF signal absorption, reflection and interference.</i>
RF Tuning Step Size	JB Band: 125 kHz All Other Bands: 25 kHz <i>Varies by region.</i>
Image Rejection	>70 dB <i>typical</i>
RF Sensitivity	-97 dBm at 10 ⁻⁵ BER
AUDIO	
Latency	3.2 ms
High-Pass/Low Cut Filter	150 Hz, -12 dB/octave <i>Note: factory default is for the HPF to be off</i>
Audio Frequency Response	20 Hz-20 kHz (+1, -2 dB)
Audio Dynamic Range	118 dB <i>A-weighted, 20 Hz-20 kHz, typical</i>
Total Harmonic Distortion	<0.02%
System Audio Polarity	XLR: Positive pressure on microphone diaphragm produces positive voltage on pin 2 with respect to pin 3 of XLR output. TRS: Positive pressure on microphone diaphragm produces positive voltage on the tip of the 6.35 mm (1/4-inch) with respect to the ring of the 6.35 mm output.
Mic Offset Range	0 to 21 dB (in 3 dB steps)

TEMPERATURE RANGE *Note: Battery characteristics may limit this range.*

Operating Temperature Range	0 °F to 122 °F (-18 °C to 50 °C)
Storage Temperature Range	-20 °F to 165 °F (-29 °C to 74 °C)

NOTE: This Radio equipment is intended for use in musical professional entertainment and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

FREQUENCY RANGE

Band	Range (MHz)	Transmitter Output (mW)
G58	470 to 514	1/10
G59	470 to 514	1/10
G60	470 to 510	1/10
G61	479 to 523	1/10
G62	510 to 530	1/10
H55	514 to 558	1/10
H56	518 to 562	1/10
H57	520 to 564	1/10
J52	558 to 602, 614 to 616	1/10
J53	562 to 606	1/10
J54	562 to 606	1/10
JB	806 to 810	1/10
K59	606 to 650	1/10
L55	646 to 690	1/10
L56	650 to 694	1/10
L57	650 to 694	1/10
L58	630 to 674	1/10
L59	654 to 698	1/10
M55	694 to 703, 748 to 758	1/10
S50	823 to 832	1/10
X51	925 to 937.5	1/10

*Note: Not all frequencies available in all regions. Contact your authorized Shure dealer for availability.

AVAILABLE CONFIGURATIONS

SLXD14	Wireless System with SLXD1 Bodypack Transmitter and WA305 Instrument Cable	SLXD24/SM58	Wireless System with SM58® Handheld Transmitter
SLXD14/DL4	Wireless System with SLXD1 Bodypack Transmitter and DL4B Lavalier Microphone	SLXD24/SM86	Wireless System with SM86 Handheld Transmitter
SLXD14/83	Wireless System with SLXD1 Bodypack Transmitter and WL183 Lavalier Microphone	SLXD24/B58	Wireless System with Beta® 58A Handheld Transmitter
SLXD14/85	Wireless System with SLXD1 Bodypack Transmitter and WL185 Lavalier Microphone	SLXD24/B87A	Wireless System with Beta® 87A Handheld Transmitter
SLXD14/93	Wireless System with SLXD1 Bodypack Transmitter and WL93 Miniature Lavalier Microphone	SLXD24/B87C	Wireless System with Beta® 87C Handheld Transmitter
SLXD14/153B	Wireless System with SLXD1 Bodypack Transmitter and MX153 (Black) Omni Condenser Earset	SLXD24/K88	Wireless System with KSM8 Dualdyne™ Handheld Transmitter
SLXD14/153T	Wireless System with SLXD1 Bodypack Transmitter and MX153 (Tan) Omni Condenser Earset	SLXD24D/SM58	Dual Wireless System with 2 SLXD2/SM58 Handheld Transmitters
SLXD14/98H	Wireless System with SLXD1 Bodypack Transmitter and Beta® 98H/C Miniature Instrument Microphone	SLXD24D/B58	Dual Wireless System with 2 SLXD2/B58 Handheld Transmitters
SLXD14/SM35	Wireless System with SLXD1 Bodypack Transmitter and SM35 Headset Microphone	SLXD14D	Dual Wireless System with two SLXD1 Bodypack Transmitters
SLXD124/85	Handheld and Lavalier Combo Wireless System		

Not all systems are available in all regions. Contact your Authorized Shure Dealer for availability in your region.

OPTIONAL ACCESSORIES (SEE SHURE.COM FOR MORE)

SB903	Shure Lithium Ion Rechargeable Battery	UAB1AST	Inline Power Supply	UA221	UHF Passive Antenna Splitter
SBC203	Dual Docking Charger	UA834	Inline Antenna Amplifier	UA600	Front Mount Antenna Kit
SBC10-903	Single Battery Charger	UA874	Active Directional Antennas	UA505	Remote Antenna Bracket with BNC Bulkhead Adapter
UA8	Half-Wave Omnidirectional Receiver Antennas	PA805SWB	Directional Wideband Antenna, 470-952 MHz	HA-8089	Helical Antenna
UA844-SWB	Antenna/Power Distribution System 470-960 MHz	PA805X	Directional Wideband Antenna, 650-1100 MHz		
UA845UWB	Ultra Wideband Antenna/Power Distribution System, 174-1804 MHz	UA860	Passive Omnidirectional Antenna, 470-1100 MHz		

SLXD4 DIGITAL WIRELESS RECEIVER

SPECIFICATIONS

(SUBJECT TO CHANGE)

Dimensions (H x W x D)	1.65 x 7.76 x 5.98 in (42 x 197 x 152 mm)
Weight	1.8 lb (816 g) without antennas
Housing	Galvanized Steel
Power Requirements	15 VDC @ 600 mA Supplied by external power supply (tip positive)

RF INPUT

Spurious Rejection	>75 dB Typical
Connector Type	BNC
Impedance	50 Ω

AUDIO OUTPUT

Gain Adjustment Range	-18 to +42 dB in 1 dB steps
Configuration	1/4" (6.35 mm): Balanced (Tip=audio +, Ring=audio -, Sleeve=ground) XLR: Balanced (1=ground, 2=audio +, 3=audio -)
Impedance	1/4" (6.35 mm): 1.3 k Ω (670 Ω Unbalanced) XLR (line): 400 Ω (200 Ω Unbalanced) XLR (mic): 150 Ω
Full Scale Output	1/4" (6.35 mm): +15 dBV differentially (+9 dBV single) XLR (LINE setting): +15 dBV XLR (MIC setting): -15 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	1/4" (6.35 mm): Yes XLR: Yes

NETWORKING

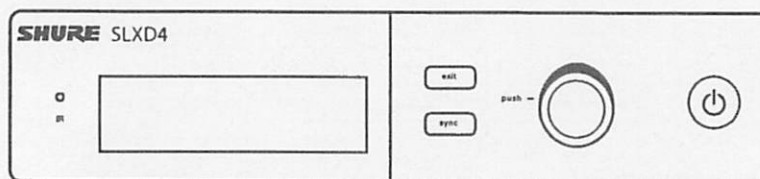
Network Interface	Single Port Ethernet 10/100 Mbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Cable Length	100 m (328 ft)

OVERVIEW

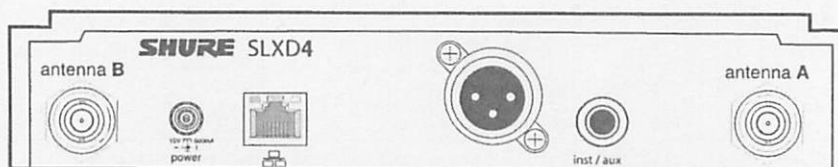
SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD4 easily syncs wireless transmitters. A variety of interchangeable vocal microphone choices guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 118 dB dynamic range
- Digital predictive switching diversity
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band
- Easy pairing of transmitters and receivers over scan and IR sync
- Compatible with Shure Wireless Workbench® control software
- Remote monitoring and control via ShurePlus™ Channels app
- Rugged metal construction



SLXD4
Front Panel



SLXD4
Back Panel

SLXD4D DUAL-CHANNEL DIGITAL WIRELESS RECEIVER

SPECIFICATIONS

(SUBJECT TO CHANGE)

Dimensions (H x W x D)	1.65 x 15.5 x 5.98 in (42 x 393 x 152 mm)
Weight	3.2 lb (1451 g) without antennas
Housing	Galvanized Steel
Power Requirements	15 VDC @ 600 mA Supplied by external power supply (tip positive)

RF INPUT

Spurious Rejection	>75 dB Typical
Connector Type	BNC
Impedance	50 Ω

AUDIO OUTPUT

Gain Adjustment Range	-18 to +42 dB in 1 dB steps
Configuration	1/4" (6.35 mm): Balanced (Tip=audio +, Ring=audio -, Sleeve=ground) XLR: Balanced (1=ground, 2=audio +, 3=audio -)
Impedance	1/4" (6.35 mm): 1.3 k Ω (670 Ω Unbalanced) XLR (line): 400 Ω (200 Ω Unbalanced) XLR (mic): 150 Ω
Full Scale Output	1/4" (6.35 mm): +15 dB differentially (+9 dBV single) XLR (LINE setting): +15 dBV XLR (MIC setting): -15 dBV
Mic/Line Switch	30 dB pad
Phantom	1/4" (6.35 mm): Yes
Power Protection	XLR: Yes

NETWORKING

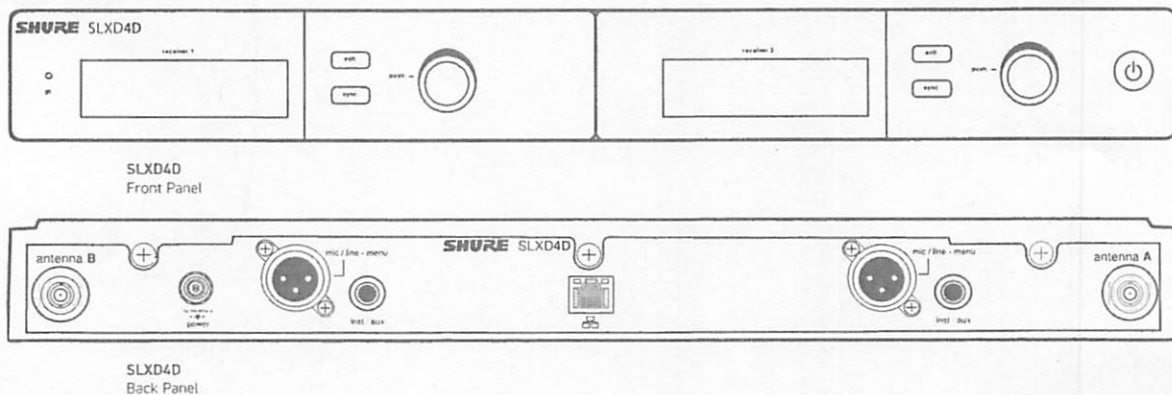
Network Interface	Single Port Ethernet 10/100 Mbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Cable Length	100 m (328 ft)

OVERVIEW

SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD4D easily syncs wireless transmitters. A variety of interchangeable vocal microphone choices guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 118 dB dynamic range
- Digital predictive switching diversity
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band, 12 systems per 8 MHz band
- Easy pairing of transmitters and receivers over scan and IR sync
- Compatible with Shure Wireless Workbench® control software
- Remote monitoring and control via ShurePlus™ Channels app
- Rugged metal construction



SLXD1 DIGITAL WIRELESS BODYPACK TRANSMITTER

SPECIFICATIONS

(SUBJECT TO CHANGE)

Battery Type	Rechargeable Li-Ion or 1.5 V AA batteries
Dimensions (H x W x D)	3.86 x 2.68 x 1.0 in (98 x 68 x 25.5 mm)
Weight	3.1 oz (89 g)
Housing	PC/ABS

AUDIO INPUT

Connector	4-Pin male mini connector (TA4M)
Configuration	Unbalanced
Impedance	1 MΩ
Maximum Input Level	8.2 dBV (2.57 Vrms, 7.27 Vpp)
Preamplifier Equivalent Input Noise (EIN)	-118 dBV

RF OUTPUT

Antenna Type	1/4 Wave
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Proprietary Digital
Power	1 mW/10 mW Varies by region. See Frequency Range and Output Power Table.

MICROPHONE OPTIONS SEE SHURE.COM FOR MORE OPTIONS

DL4B	DuraPlex™ Omnidirectional Waterproof Lavalier Microphone
WL183	Omnidirectional Condenser Lavalier Microphone
WL185	Cardioid Condenser Lavalier Microphone
WL93	Omnidirectional Miniature Condenser Microphone
MX153T	Microflex™ Headworn Earset Microphone, Tan
MX153B	Microflex™ Headworn Earset Microphone, Black
SM35	Cardioid Condenser Headworn Microphone
WB98H/C	Beta™ 98H/C Clip-On Condenser Instrument Microphone
WA305	1/4" Locking Instrument Cable

OVERVIEW

SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD1 easily syncs with a wireless receiver. TQG connectivity to a variety of microphone options guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 118 dB dynamic range
- Digital predictive switching diversity
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band
- Easy pairing of transmitters and receivers over scan and IR sync
- Up to 8 hours from 2 AA batteries or optional Shure SB903 rechargeable battery
- TQG connectivity offers a variety of microphone options
- Ergonomic, durable plastic construction



SLXD1
Bodypack Transmitter

SLXD2 DIGITAL WIRELESS HANDHELD TRANSMITTER

SPECIFICATIONS

(SUBJECT TO CHANGE)

Battery Type	Rechargeable Li-Ion or 1.5 V AA batteries
Dimensions (Dia. x L)	1.46 x 6.93 in (37.1 x 176 mm)
Weight	5.2 oz. (147 g)
Housing	Aluminum

AUDIO INPUT

Configuration	Unbalanced
Maximum Input Level	8.2 dBV (257 Vrms, 7.27 Vpp) <i>Note: Dependent on Microphone Type</i>

RF OUTPUT

Antenna Type	Integrated Single-Band Helical
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Proprietary Digital
Power	1 mW/10 mW <i>Varies by region. See Frequency Range and Output Power Table</i>

MICROPHONE OPTIONS SEE SHURE.COM FOR MORE OPTIONS

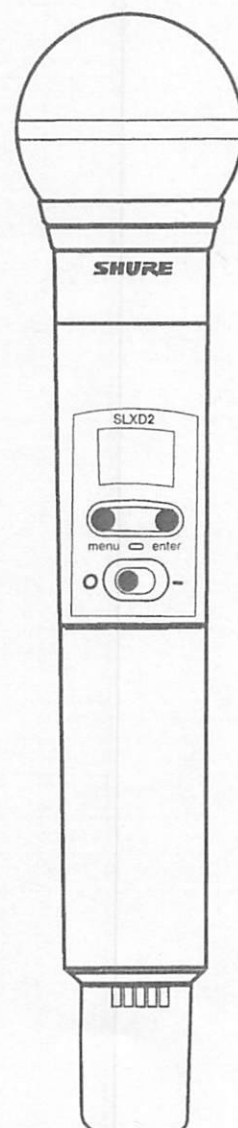
SM58*	Industry Standard Cardioid Dynamic Vocal Microphone
Beta*87A	Supercardioid Condenser Vocal Microphone
Beta*87C	Cardioid Condenser Vocal Microphone
SM86	Cardioid Condenser Vocal Microphone
KSM8	Dual-Diaphragm Dynamic Vocal Microphone

OVERVIEW

SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD2 easily syncs with a wireless receiver. A variety of interchangeable vocal microphone choices guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 118 dB dynamic range
- Digital predictive switching diversity
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band
- Easy pairing of transmitters and receivers over scan and IR sync
- Up to 8 hours from 2 AA batteries or optional Shure SB903 rechargeable battery
- Interchangeable microphone capsules
- Rugged metal construction



SLXD2
Handheld Transmitter

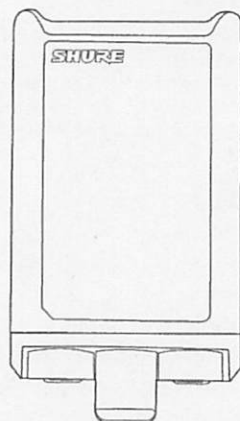
SLX-D DIGITAL WIRELESS RECHARGEABLE POWER MANAGEMENT

SPECIFICATIONS

(SUBJECT TO CHANGE)

SB903 LI-ION RECHARGEABLE BATTERY

Charge Voltage	4.2 V (± 0.03 V)
Charge Current	SBC10-903: 220 mA SBC203: 625 mA (normal) 250 mA (reduced)
Nominal Voltage	3.6 V
Nominal Capacity	1200 mAh
Housing	Molded Polycarbonate
Charging Temperature Range	SBC10-903: 50 °F to 113 °F (10 °C to 45 °C) SBC203: 50 °F to 113 °F (10 °C to 45 °C), normal 32 °F to 50 °F (0 °C to 10 °C), reduced
Dimensions (H x W x L)	0.57 x 1.28 x 2.19 in (14.5 x 32.5 x 55.5 mm)
Weight	1 oz. (28 g)



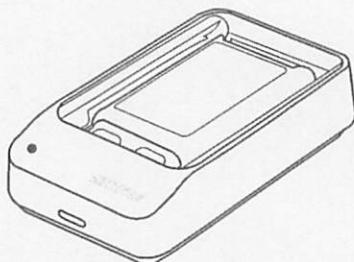
SB903
Rechargeable Lithium Ion Battery

SB903 LITHIUM-ION RECHARGEABLE BATTERY

Want to know the exact amount of battery charge left? SB903 rechargeable lithium-ion batteries unlock real-time battery life and battery health features for SLX-D Digital Wireless transmitters.

SBC10-903 SINGLE BATTERY CHARGING SLED

DC Input Voltage Range	5 VDC
Charge Current	220 mA USB-powered
Charge Time	50%: 3 hours 100%: 5 hours, 30 minutes
Charge Voltage	4.2 V
Charging Temperature Range	50 °F to 113 °F 10 °C to 45 °C
Dimensions (H x W x L)	0.81 x 1.48 x 3.13 in (20.5 x 37.5 x 79.5 mm)
Weight	1.3 oz (39 g)
Housing	Molded Polycarbonate
POWER SUPPLY	
Input Voltage Range	100 to 240 VAC
Operating Frequency	50 to 60 Hz
Maximum Input Power	0.2 A at 100 VAC full load
Output Voltage	4.75 to 5.25 VDC
Maximum Output Power	1.0 A at 5 VDC
Charging Temperature Range	32 °F to 140 °F (0 °C to 60 °C)



SBC10-903
Single Battery Charging Sled

SBC10-903 SINGLE BATTERY CHARGER FOR SB903 BATTERY

USB single battery charger can be powered from A/C power sources and USB ports to charge one Shure SB903 Lithium-Ion Rechargeable Battery for use with SLX-D Digital Wireless Transmitters.

SLX-D DIGITAL WIRELESS RECHARGEABLE POWER MANAGEMENT

SPECIFICATIONS

(SUBJECT TO CHANGE)

SBC203 DUAL-DOCKING RECHARGING STATION

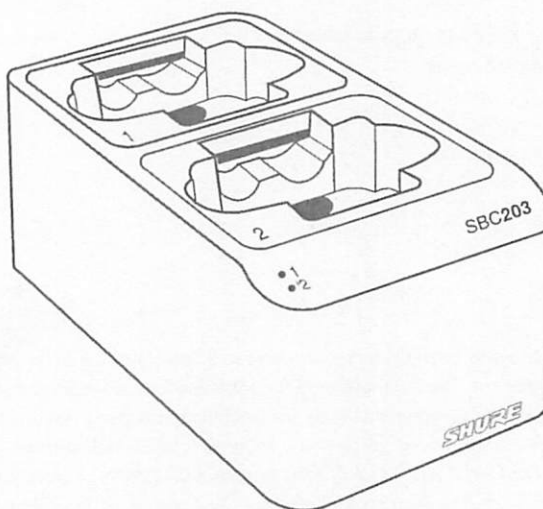
Charge Current	625 mA or 250 mA <i>Lower current used when using another power source, or operating between 32 °F and 50 °F (0 °C and 10 °C)</i>
Charge Time	50%: 1 hour, 15 minutes 100%: 2 hours, 30 minutes
External Power Supply	SBC10-USB15W or SBC10-USB15WS
Power Requirements	5 VDC, 3 A max
Charging Temperature Range for Battery	32 °F to 113 °F (0 °C to 45 °C)
Dimensions (H × W × L)	2.6 × 3.9 × 6.5 in 66 × 99 × 165 mm
Weight	10.0 oz (284 g)
Housing	ABS

POWER SUPPLY

Input Voltage Range	100 to 240 VAC
Operating Frequency	50 to 60 Hz
Maximum Input Power	0.6 A at 100 VAC full load
Output Voltage	4.75 to 5.25 VDC
Maximum Output Power	3.0 A at 5 V
Operating Temperature Range	32 °F to 140 °F (0 °C to 60 °C)

SBC203 DUAL-DOCKING RECHARGING STATION FOR SB903 LITHIUM-ION BATTERY

Dual docking recharging station charges two SB903 lithium-ion batteries in or out of their transmitters. Built to charge two batteries, two body pack transmitters, two handheld transmitters or any pairing of two SLX-D transmitters or SB903 batteries.



SBC203
Dual-Docking Recharging Station

Active Column Line Array

MAIN FEATURES

- 2 way bi-amplified line array column
- 0,47" birch plywood with scratch resistant varnish
- 4 x 6,5" custom woofer with 1,5" voice coil
- Neodymium B&C compression HF driver with 1,4" throat and 2,5" voice coil
- Class D 600W RMS amplifier for LF and 300W RMS for HF
- DSP processor with 8 equalization presets
- 100°H x 25°V dispersion
- Ideal for both live applications, assisted by the CLA118SA active subwoofer, as well as for fixed installation
- Completely Manufactured in Italy



DESCRIPTION

The FBT VERTUS CLA 406.2A two-way bi-amplified speaker system incorporates 4 x 6.5" custom woofers with 1.5" voice coils and 1 x 1.4" B&C HF neodymium driver with a 2.5" voice coil. The internal Class D amplifier module, constructed in die-cast aluminum, delivers 600W for LF, 300W for HF, and a DSP processor with 8 equalization presets, providing unexpected dynamics in a system of these dimensions. The FBT VERTUS CLA 406.2A shall meet the following performance criteria: frequency response from 65Hz to 20kHz, maximum SPL of 133dB, horizontal coverage angle of 100°, and vertical coverage angle of 25°. The FBT VERTUS CLA 406.2A features a 0.47" birch plywood construction with internal metal bracing, and the front is protected by a heavy-duty metal grille. The control panel provides Level control, HF level, Preset, HP filter, Gnd lift, 3 status LEDs (on, peak, prt/limit), XLR input & link, and Neutrik Powercon Cable Duplex for power supply. With new hardware, it is possible to couple two or more CLA 406.2A/CLA 206A units at an angle of 0°-20° in 5° steps vertically, and additional accessories are available for system suspension. Four lateral inserts (two upper and two lower) are designed to accept quick-release pins or M10 screws. It can be elegantly integrated into any environment with minimal intrusion, making it ideal for live applications when paired with the CLA 118SA subwoofer, as well as for fixed installations.

TECHNICAL SPECIFICATIONS

GENERAL

Code		41791
Configuration	way	2 bi-amplified
Low frequency woofer	inch	4 x 6.5 - 1.5 coil
High frequency driver	inch	1.4 - 2.5 coil

ACOUSTIC SPECIFICATIONS

Frequency response (@-6dB)	Hz	65 - 20k
Sensitivity (@1W/1m)	dB	---
MAX SPL (cont/peak)	dB	133
Dispersion	H° x V°	100 x 25
Crossover frequency	Hz	1.2k

INPUTS & OUTPUTS

Input connectors		XLR with loop
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POWER SUPPLY

AC power requirement	W	640
	mt	5
Power cord	ft	16.4

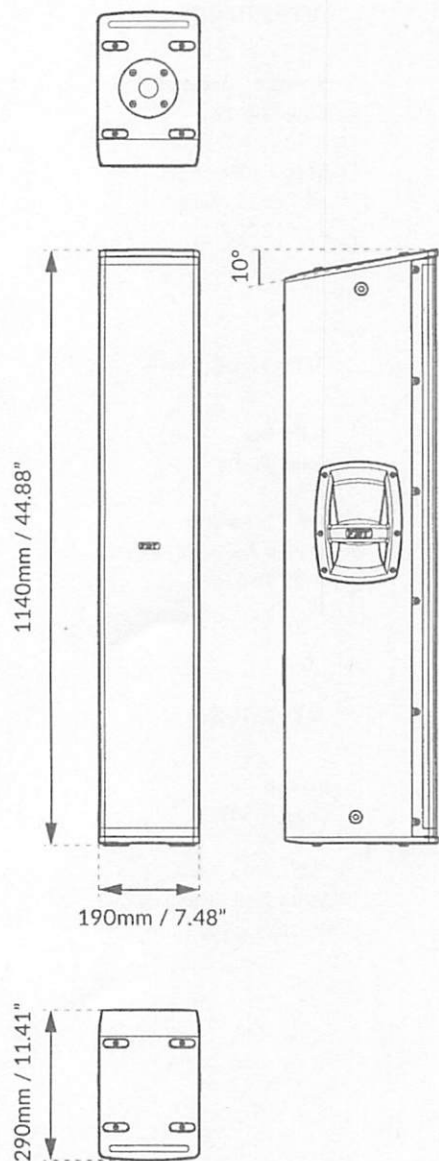
AMPLIFIER

Built-in amplifier LF/HF max	W RMS	600 / 300
Built-in amplifier max peak	W	1200 / 600
Input impedance	Ohm	22k

MECHANICAL SPECIFICATIONS

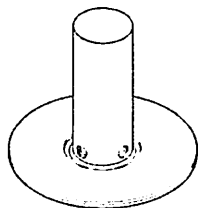
Material	Cabinet	0.47" Birch plywood
	Grille	Metal
Net dimensions (WxHxD)	mm	190 x 1140 x 290
	inch	7.48 x 44.88 x 11.41
Transport dimensions (WxHxD)	mm	320 x 1265 x 445
	inch	12.60 x 49.80 x 17.52
Net weight	kg	28
	lb	61.72
Transport weight	kg	31.50
	lb	69.44

DIMENSIONAL DRAWING



CONTROL PANEL



ACCESSORIES

VT-S0 406

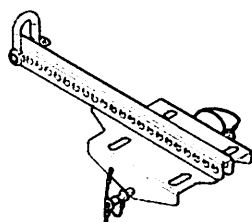
Speaker Stand h0
Code: 39904

ø110 x 93mm
ø4.33 x 3.66inch
0.50 kg / 1.10 lb


VT-S30 406

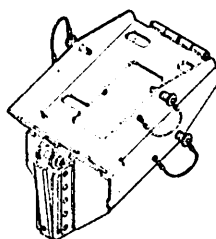
Speaker Stand h30
Code: 39903

ø110 x 400mm
ø4.33 x 15.74inch
1 kg / 2.20 lb


VT-F 406.2

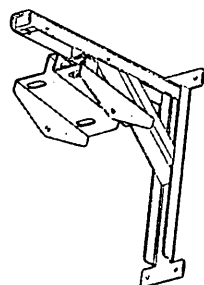
Flying Bar
Code: 41803

565 x 117 x 200mm
22.24 x 4.63 x 7.87inch
4.50 kg / 9.92 lb


VT-J 406.2

Joint Bar
Code: 41802

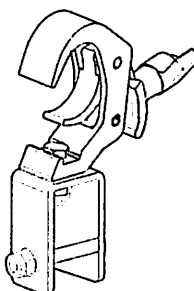
398 x 216 x 200mm
15.66 x 7.87 x 7.87inch
7 kg / 15.43


VT-W 406.2

Wall Mount
Code: 44797

512 x 490 x 122mm
20.17 x 19.29 x 4.82inch
9 kg / 19.84 lb

▲ IMPORTANT | Use all holes for wall mounting

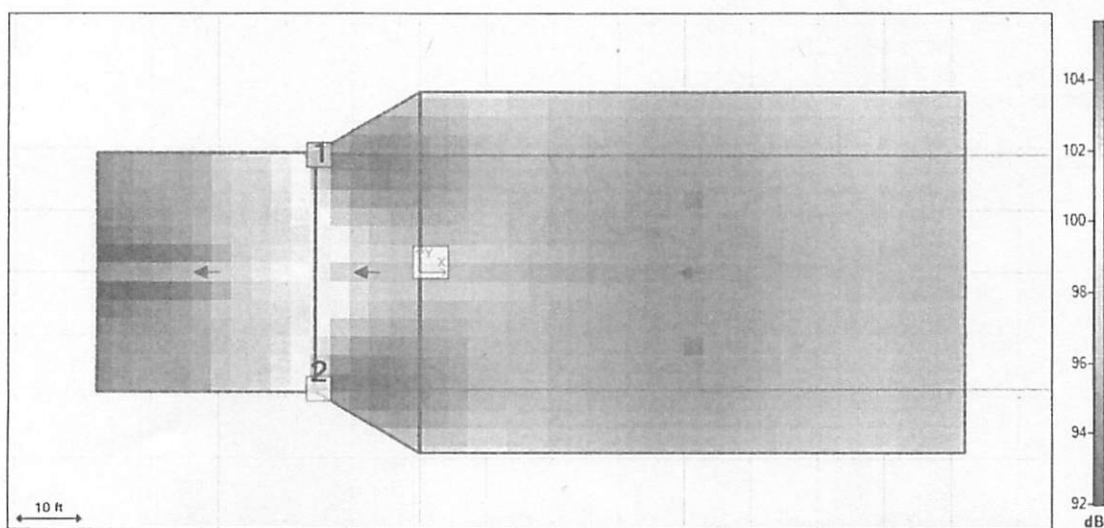

VT-T 406

Clamp
Code: 41805

152 x 190 x 75mm
5.98 x 7.48 x 2.95inch
0.70 kg / 0.9 lb

1 Project Information

Project Title:	EMS Sound System
Date:	Sunday, September 28, 2025
Author:	
Temperature:	68.0°F
Pressure:	Standard (1010 hPa)
Humidity:	Standard (60%)
Mapping:	Broadband - A-Weighted

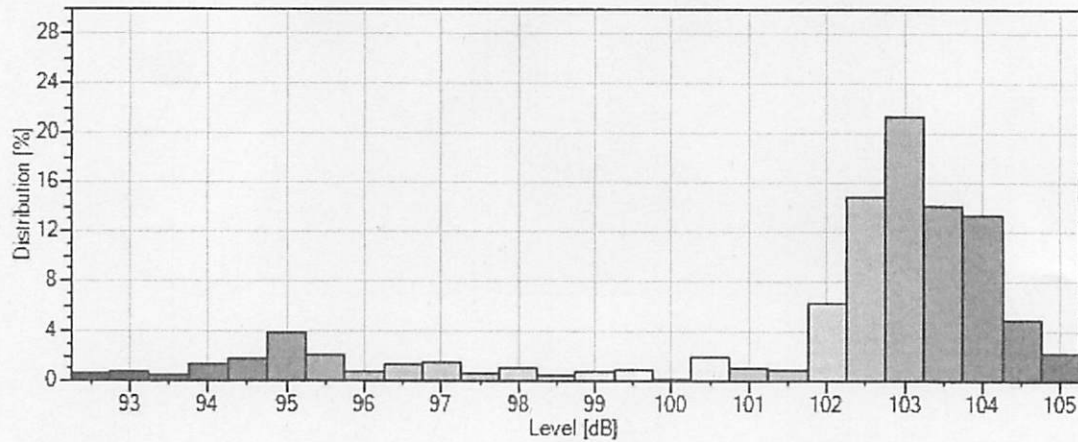


2 Sound Sources

	Label	Type	System	X [ft]	Y [ft]	Z [ft]	Hor [°]	Ver [°]	Rot [°]
1	CLA406A-206A-118SA	Line Array	CLA406A-206A-118SA	-15.00	17.65	19.00	0.0	5.6	0.0
2	CLA406A-206A-118SA 1	Line Array	CLA406A-206A-118SA	-15.00	-17.58	19.00	0.0	5.6	0.0

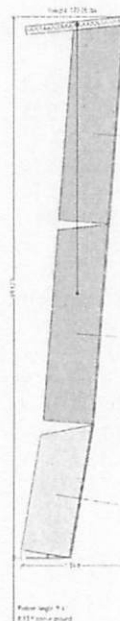
3 Distribution

Average: 101.8 dB $\pm$ 3.1
Average - Std. Dev.: 98.7 dB
Average + Std. Dev.: 104.9 dB



4 Sound Source - CLA406A-206A-118SA

System: CLA406A-206A-118SA
 Company: FBT
 Label: CLA406A-206A-118SA
 Position: X=-15.00 ft
 Y=17.65 ft
 Z=19.00 ft
 Orientation: Hor=0.0°
 Ver=5.6°
 Weight: 173.06 lbs
 Setup: Hung
 Box Count: 3
 Pinpoint Mode: Best Pinpoint
 Pinpoint Number: 11
 Remaining Vertical: 0.0°
 Angle:
 Bottom Angle: 9.4 °
 Above Ground: 8.83 ft



	Box Type (Frame)	Gain	Rigging Angle	Aiming Angle
Box 1	CLA406A	6.0 dB	10°	5.6°
Box 2	CLA406A	2.0 dB	0°	-4.4°
Box 3	CLA206A	-8.0 dB	5°	-4.4°
				-9.4°

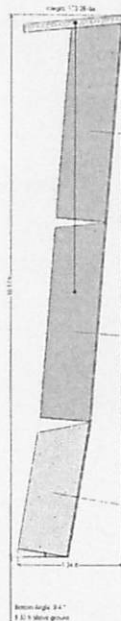
	Box Type (Frame)	Input Configuration	Input Types
Box 1	CLA406A	Single Ground/Sub Stack	Preset 1: FilterDef1
Box 2	CLA406A	Single Ground/Sub Stack	Preset 1: FilterDef1
Box 3	CLA206A	Single Ground/Sub Stack	Preset 1: FilterDef1

Filter Status: Active
 Gain: 0.0 dB
 Delay: 0.000 ms
 Polarity: Normal

Status
 No messages

5 Sound Source - CLA406A-206A-118SA 1

System: CLA406A-206A-118SA
 Company: FBT
 Label: CLA406A-206A-118SA
 1
 Position: X=-15.00 ft
 Y=-17.58 ft
 Z=19.00 ft
 Orientation: Hor=0.0°
 Ver=5.6°
 Weight: 173.06 lbs
 Setup: Hung
 Box Count: 3
 Pinpoint Mode: Best Pinpoint
 Pinpoint Number: 11
 Remaining Vertical Angle: 0.0°
 Bottom Angle: 9.4 °
 Above Ground: 8.83 ft



	Box Type (Frame)	Gain	Rigging Angle	Aiming Angle
Box 1	CLA406A	6.0 dB	10°	-4.4°
Box 2	CLA406A	2.0 dB	0°	-4.4°
Box 3	CLA206A	-8.0 dB	5°	-9.4°

	Box Type (Frame)	Input Configuration	Input Types
Box 1	CLA406A	Single Ground/Sub Stack	Preset 1: FilterDef1
Box 2	CLA406A	Single Ground/Sub Stack	Preset 1: FilterDef1
Box 3	CLA206A	Single Ground/Sub Stack	Preset 1: FilterDef1

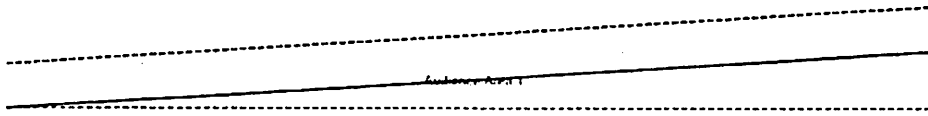
Filter Status: Active
 Gain: 0.0 dB
 Delay: 0.000 ms
 Polarity: Normal

Status
 No messages

6 Audience Zone - Audience Zone

Label: Audience Zone
Shape: Rectangle

Label	Length	Ear Height
Audience Area 1	82.15 ft	3.94 ft (Sitting)



ACCEPTANCE

FINANCIAL

PAYMENT SCHEDULE
To be determined

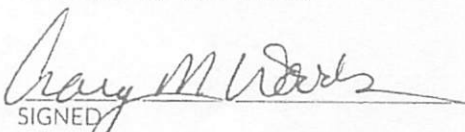
EQUIPMENT TOTAL	\$31,073.98
SHIPPING TOTAL	\$334.00
ENGINEERING	\$1,120.00
INSTALLATION	\$5,525.00
MANAGEMENT	\$0.00
PROGRAMMING	\$0.00
LABOR TOTAL	\$6,645.00
SUBTOTAL	\$38,052.98
TOTAL TAX	\$0.00
PROJECT TOTAL	\$38,052.98

TERMS

I accept this proposal and hereby authorize Valiant Integrations to proceed with the installation of the included systems at the facilities of Emmett Middle School constructing at 301 E 4th St Emmett, ID 83617 as described in the totality of this document. I further authorize Valiant Integrations to be granted the facility access that will be required to complete this project in a workmanlike and timely manner and for payment to be made to Valiant Integrations. In keeping with the Terms of Payment listed above: It has been made clear to me that there exist no understandings regarding this project with any relevant party unless and until Emmett Middle School and Valiant Integrations agree to such additional or alternate understandings in writing. Project cost and pricing are dependent upon a continual flow of work without interruption or delays imposed by Emmett Middle School or their staff, construction, other building trades or any other party, and additional costs may be incurred by Emmett Middle School from Valiant Integrations. If such delays result in additional costs that are not covered by the pricing in this proposal: I agree that any additions to and/or deletions from the materials and labor to be provided by my acceptance of this proposal and any resulting change(s) in cost of this project shall only be by way of written change order(s) and shall be valid only after being signed by Emmett Middle School and Valiant Integrations. This proposal is valid only if accepted in writing by Emmett Middle School and deposit payment received no later than October 19, 2025.

ACCEPTANCE

EMMETT MIDDLE SCHOOL

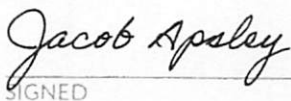

SIGNED

10-1-2025
DATE

Craig M Woods
PRINT NAME

ESD Superintendent
TITLE

VALIANT INTEGRATIONS


SIGNED

10-2-2025
DATE

Jacob Apsley
PRINT NAME

Owner
TITLE