

**Saucon Valley School District**  
**Meeting of the Facilities Committee**  
**District Office Conference Room**  
**March 13, 2024 – 5:00 pm**  
\* \* \* \* \*

*Welcome to the meeting of the Saucon Valley School Board Ad Hoc Facilities Committee. Our objective is to serve the students, parents, and residents of our community. You are an important part of this meeting, and we look forward to your questions and comments. We are all here for the same reason. All opinions are welcomed and equally valuable. Our only request is that we address each other with civility and respect. Our courtesy toward each other is the best way to show our students how much we respect them as well.*

**Committee Members: John Conte, Vivian Demko, Laurel Erickson-Parsons, Jay Santos**

- I. Call to the Order –*John Conte, Committee Chair***
- II. Pledge of Allegiance**
- III. Recording of Attendance – *David Bonenberger, Committee Secretary***
- IV. Motion to Approve Agenda –**
- V. Approval of Minutes – February 14, 2024**
- VI. Courtesy of the Floor to Visitors – Agenda Items Only**
- VII. Discussion & Action: Outdoor Stadium Projection Scoreboard and Sound System**
- VIII. Discussion & Action: Change Order - for the High School windows to apply the previous funds and the remaining balance.**
- IX. New Business –**
- X. Old Business –**
- XI. Courtesy of the Floor to Visitors – *Visitors should state their name and address.***
- XII. Future Meetings – March 13, 2024**
- XIII. Motion to Adjourn**

A meeting of the Ad Hoc Facilities Committee of the Board of Directors of the Saucon Valley School District was held on Wednesday, February 14, 2024, in the District Office Conference Room. Committee Members John Conte, Vivian Demko, and Laurel Erickson-Parsons were present. Jay Santos was absent. Also present were David Bonenberger - Committee Secretary; Jaime Vlasaty, Superintendent; and James Deegan, Director of Campus Operations.

- I. **Call to the Order** – 5:00 pm - *John Conte, Committee Chair*
- II. **Pledge of Allegiance**
- III. **Recording of Attendance** – *David Bonenberger, Committee Secretary*  
3-present, 1-absent (Santos)
- IV. **Motion to Approve Agenda** – Mrs. Demko, seconded by Dr. Erickson-Parsons, moved to approve the Agenda. Vote: 3-yes, 0-no, 1-absent (Santos)
- V. **Approval of Minutes** – Dr. Erickson-Parsons, seconded by Mrs. Demko moved to approve the January 10, 2024 minutes. Vote: 3-yes, 0-no, 1-absent (Santos)
- VI. **Courtesy of the Floor to Visitors – Agenda Items Only** - None
- VII. **Update:** SVHS Exterior Wall - Three vendors reviewed proposals are due today. Tremco will come out next meeting to present info.
- VIII. **Update:** Trane Chiller Proposal - Three quotes to replace the chiller unit.  
  
ASL would be \$482,999 to replace with your chiller  
Johnson \$535,000 York  
Trane \$384,312 Trane unit  
  
The proposal covers all the costs of replacing the unit.  
The committee recommends sending to the Finance Committee to do the Trane unit.  
  
Dr. Erickson-Parson, seconded by Mrs. Demko moved to approve sending this item to the Board for approval. Vote: 3-yes, 0-no, 1-absent (Santos)
- IX. **New Business** – None
- X. **Old Business** – None
- XI. **Courtesy of the Floor to Visitors** – None
- XII. **Future Meetings** – March 13, 2024
- XIII. **Motion to Adjourn**  
  
Mrs. Demko, seconded by Dr. Erickson-Parsons moved to adjourn  
Vote: 3-yes, 0-n0, 1-absent (Santos)

**Job Order**

<b>JOC Contract No.: 2021JOCC-41</b>			
<input checked="" type="checkbox"/>	New Job Order	<input type="checkbox"/>	Modify an Existing Job Order
Job Order Number:	123812.00		
Job Order Title:	Saucon Valley SD Stadium Outdoor Projection Scoreboard GC		
Contact:	Jim Deegan	Contractor Name:	Lobar Associates Construction
Phone:	6108387001	Contact:	Amy Navratil
		Phone:	717-432-3429

<b>Work to be Performed</b>	
Work to be performed as per the Final Scope of Work and the Price Proposal dated 01/03/2024, and as per the terms and conditions of JOC Contract No 2021JOCC-41.	
<u>Brief Task Order Description:</u>	
Install outdoor stadium projection scoreboard. Including engineering, excavation and electrical work	

<b>Time of Performance</b>	Estimated Start Date:
	Estimated Completion Date:
<b>Liquidated Damages</b>	Will apply: <input type="checkbox"/> Will NOT apply: <input checked="" type="checkbox"/>

<b>Validation Information</b>	
<i>Option 1 - Non Prepriced</i>	1.1500
<i>Option 1 - Prevailing Wage Norma</i>	1.1000

<b>Job Order Firm Fixed Price: \$314,872.85</b>
Owner Purchase Order:

**Approvals**

\_\_\_\_\_  
Project Manager Date

\_\_\_\_\_  
Contractor Representative Date

\_\_\_\_\_  
Agency Representative Date

\_\_\_\_\_  
Agency Representative Date

\_\_\_\_\_  
Agency Representative Date

\_\_\_\_\_  
Agency Representative Date

**Scope of Work**

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**To:** Jim Deegan  
KPN - Saucon Valley School District  
No Address Input  
  
6108387001

**From:** Amy Navratil  
Lobar Associates Construction  
4 Barlo Circle  
Dillsburg, PA 17019  
(717) 432-3429

**Job Order No:** 123812.00  
**Job Order Title:** Saucon Valley SD Stadium Outdoor Projection Scoreboard GC

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The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this scope of work.

-Provide Lobar Associates coordination -Mobilize tools and equipment -Provide and install a new scoreboard as per the attached proposal from MTG -Provide and install a new sound system as per the attached proposal from MTG -Remove the existing steel structure and scoreboard -Provide and install a new PE stamped steel scoreboard support structure -Daily Cleanup of construction site -Demobilize tools and equipment -COVID-19 protection plan in place during construction -Includes Design and Engineering project insurance/required coverage (Certificate of Insurance attached) -Includes all required code and permitting compliance items utilized in design/build process to obtain permits -Includes prevailing labor rates utilized for all trades required by PA state law -Includes construction activities Insurance as per attached insurance certificate -Excludes P & P bonds -Excludes any & all utilities hook ups -Excludes hazardous Materials/Conditions and/or Remediation -Excludes unforeseen Materials/Conditions -Excludes extreme weather conditions and associated costs -Excludes holiday working hours/overtime -Excludes asbestos testing or removal -Excludes rock removal -Proposal is based on work being performed during work hours 7:00 am – 3:30 pm Monday thru Friday -Schedule time frames and proposal value is pending any COVID-19 delays/impact costs. -All testing by others -Executed AIA Substantial Completion is required upon completion of the area/areas before occupancy -Any work not specifically stated above is not part of this proposal -Proposal is valid for 30 days  
Subject to the terms and conditions of JOC Contract 2021JOCC-41.

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Jim Deegan, Requestor

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Date

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Amy Navratil,

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Date

## Contractor's Cost Proposal - Summary (L/E/M)

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**Date:** March 04, 2024

**Re:** IQC Master Contract #: 2021JOCC-41  
JOC Work Order #: 123812.00  
Owner PO #:  
Title: Saucon Valley SD Stadium Outdoor Projection Scoreboard GC  
Contractor: Lobar Associates Construction  
Proposal Value: \$314,872.85

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<b>Scoreboard</b>	<b>\$238,474.24</b>
<b>Sound System</b>	<b>\$32,855.83</b>
<b>Support Structure</b>	<b>\$43,542.78</b>
<b>Proposal Total</b>	<b>\$314,872.85</b>

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This Proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

**The Percentage of NPP on this Proposal: 86.17%**

# Contractor's Cost Proposal - Detail (L/E/M)

Date: March 04, 2024

Re: IQC Master Contract #: 2021JOCC-41  
 JOC Work Order #: 123812.00  
 Owner PO #:  
 Title: Saucon Valley SD Stadium Outdoor Projection Scoreboard GC  
 Contractor: Lobar Associates Construction  
 Proposal Value: \$314,872.85

Sect.	Item	Mod.	UOM	Description	Line Total		
Labor	Equip.	Material	(Excludes)				
<b>Scoreboard</b>							
1	00 00 00 01			Lump Sur Saucon Valley SD Scoreboard MTG	\$238,474.24		
		NPP	Installation	Quantity 1.00 x	Unit Price 207,368.90 x	Factor 1.1500 =	Total 238,474.24
				See attached backup proposal			
<b>Subtotal for Scoreboard</b>					<b>\$238,474.24</b>		
<b>Sound System</b>							
2	00 00 00 01			Lump Sur Saucon Valley Stadium Sound System	\$32,855.83		
		NPP	Installation	Quantity 1.00 x	Unit Price 28,570.29 x	Factor 1.1500 =	Total 32,855.83
				Stadium Sound System by MTG			
<b>Subtotal for Sound System</b>					<b>\$32,855.83</b>		
<b>Support Structure</b>							
3	01 22 16 00 0002		EA	Reimbursable Fees Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.	\$2,420.00		
			Installation	Quantity 2.200.00 x	Unit Price 1.00 x	Factor 1.1000 =	Total 2,420.00
				Permitting for steel structure			
4	01 22 20 00 0054		HR	Senior Engineer	\$7,124.48		
			Installation	Quantity 40.00 x	Unit Price 161.92 x	Factor 1.1000 =	Total 7,124.48
				Engineering for scoreboard structure			
5	01 22 23 00 0028		DAY	60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	\$1,337.09		
			Installation	Quantity 2.00 x	Unit Price 607.77 x	Factor 1.1000 =	Total 1,337.09
				Lift for removing existing structure and placing new steel			
6	01 22 23 00 0284		DAY	5/8 CY Hydraulic Excavator With Full-Time Operator	\$1,522.68		
			Installation	Quantity 1.00 x	Unit Price 1,384.25 x	Factor 1.1000 =	Total 1,522.68
				Excavator to remove existing steel structure			
7	01 22 23 00 0823		DAY	10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	\$3,557.64		
			Installation	Quantity 2.00 x	Unit Price 1,617.11 x	Factor 1.1000 =	Total 3,557.64
				Lift to place columns			

**Contractor's Cost Proposal - Detail (L/E/M) Continues..**

Job Order No: 123812.00  
 Job Order Title: Saucon Valley SD Stadium Outdoor Projection Scoreboard GC

**Support Structure**

8	01 54 23 00 0046	LF	2" x 6" Temporary Lumber						\$505.56	
			Installation	Quantity	Unit Price	Factor	=	Total		
				120.00	3.83	1.1000		505.56		
			Temporary Lumber to hold beams in place while concrete sets							
9	01 71 13 00 0003	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' BedIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.						\$3,050.59	
			Installation	Quantity	Unit Price	Factor	=	Total		
				2.00	1,386.63	1.1000		3,050.59		
			Mob/demob of lift and excavator							
10	05 05 21 00 0003	EA	Welding Minimum ChargeFor projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.						\$558.39	
			Installation	Quantity	Unit Price	Factor	=	Total		
				1.00	507.63	1.1000		558.39		
			Weld box tubing to columns							
11	05 12 23 00 0077	TON	3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square						\$2,678.98	
			Installation	Quantity	Unit Price	Factor	=	Total		
				0.25	9,741.76	1.1000		2,678.98		
			Square tubing to connect between steel columns							
12	05 12 23 00 0164	LF	W12 x 58 A992/A36 Structural Column						\$16,104.17	
			Installation	Quantity	Unit Price	Factor	=	Total		
				105.00	139.43	1.1000		16,104.17		
			Structural steel support system, 35' per post							
13	05 12 23 00 0164 0004	MOD	For Hot Dip Galvanizing, Add						\$3,670.59	
			Installation	Quantity	Unit Price	Factor	=	Total		
				105.00	31.78	1.1000		3,670.59		
14	32 31 13 13 0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil						\$439.07	
			Installation	Quantity	Unit Price	Factor	=	Total		
				15.00	26.61	1.1000		439.07		
			Auger holes for columns							
15	32 31 13 13 0029	VLF	24" Diameter, Concrete Fill For Post Hole						\$573.54	
			Installation	Quantity	Unit Price	Factor	=	Total		
				15.00	34.76	1.1000		573.54		
			Auger holes for columns							

**Subtotal for Support Structure** **\$43,542.78**

**Proposal Total** **\$314,872.85**

This Proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

**The Percentage of NPP on this Proposal: 86.17%**

# Proposal Solution 1 \_\_\_\_\_ \$299,469

## LED Video Display 31'6" x 18'11"

### Main Screen Display

Pitch	10mm
LED Type	SMD 3-in-1
Brightness	6500 nits
IP Rating	IP62 Rating
Service Access	Front / Rear
Power	44237W/ 208VAC / 212.7A
Resolution	960 x 576
Total Pixels	552,960
Color Capacity	150 billion minimum
Viewing Angle	Vertical - 160° Horizontal - 160°
Life Expectancy	Minimum 100,000 hours
Working Temperature	-40° to 150° Fahrenheit

### Display Control System

- Redundant Hardware - LED processor and fiber convertors – to allow for error recovery
- Bolt Live Control System
- 5 Additional Display Zones
- Pre-Assembled Control Room Rack
  - Monitor
  - Keyboard
  - Mouse
- KVM Extender up to 330'

### Static Scoring and Timing System

- ISC9000-PR scoreboard controller
- Carry Case
- 500' Controller Cable
- Small Distribution Panel - 1 RS485 Input, 3 RS485 Outputs, 2 RS232 Output
- ISCREM-S wired remote – Game Clock Operation

### Custom Graphics and Animation

- Professional custom graphics and animation package. Design team will provide one on one consultation and custom create branded graphics and animations based on your needs.
- Three different video, stats, or in-game progress screens for LED video scoreboard.
- Collection of moving crowd prompts, situational animations, and sponsor animation sequences.
- Collection of sports and event animation sequences

### Scope Of Work

OES shall provide the following services and deliverables(s):

- Remove and Dispose of Current Structure and Scoreboard to Ground Level
- Provide and Install New Steel Structure includes Drilling and Concrete
- Installation of new LED video display on New Structure
- Installation of scoring and timing system.
- Secondary power and data terminations from customer supplied primary feeds.
- Installation of control room equipment inside proposed video room at ground level location.
- Integration with facility camera system
- Commissioning of system.
- Training on operations of control room software.
- Training on operation of scoring and timing system.
- Supply of all necessary rental equipment to complete the scope of work.
- On-Site technical support for first 2 events
- Engineering for OES Supplied Equipment and Hardware.

### Assumptions

OES's quote is based off the following assumptions:

- Free and clear access, with clear space and clear access to working area.
- Availability of adequate room for work to be performed from lift.
- Proper roadway and ramp to gain access to work area.
- Estimated Freight Included
- Permitting is included.
- Sanitary facilities NOT included.
- Engineering services NOT included for NON-OES products.
- Factory Supplied On Site Project Management
- Customer to supply both primary power and data feeds as directed by OES for the following equipment:
  - LED display
  - Scoreboard controllers
  - LED display control equipment
- Proposal based on one mobilization. Additional mobilizations if required will be quoted extra.
- Customer to provide electrical & data lines to installation location (LED Video Display)
- Customer to co-ordinate all utility locates in all work areas involving excavation.
- OES will co-ordinate installation with Saucon Valley School District as unrestricted access to the facility during certain aspects of the installation will be required.
- Structural steel and footings subject to third party engineering review. Price may be subject to change if engineering review requires alteration to proposed design.
- Scoreboard footings based on soil load bearing conditions typical of the region. Variations in soil load bearing at the scoreboard installation site that affect the footing design will be quoted extra.
- Structural steel will be painted black
- Proposal excludes:
  - Payment and performance bonds
  - Sales taxes

### Contractor And Client Responsibilities

Breakdown of contract responsibilities between OES and client:

OES	Client	Responsibilities
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supply primary data feeds to new equipment as directed by OES.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supply primary power feeds to new equipment as directed by OES.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installation of secondary data terminations.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installation of secondary branch circuits.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installation of new LED center hung display.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installation of scoring and timing equipment.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installation of new control room equipment
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Commission of LED display.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Customer training on new LED display.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	OES Technician to support 1 <sup>st</sup> 2 events at facility.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stamped Engineering of LED Display structure.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rental equipment.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site cleanup.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Waste disposal services

### Completion Criteria

Contractor shall have fulfilled its obligations upon substantial completion, defined as the operational availability of the equipment in accordance with the equipment's specifications without regard to items which do not affect the operation of the equipment. Including, but not limited to, items outside OES scope of work, items considered aesthetic or punch list items and items that fall under customer responsibility.

### Project Change Order Procedure

The following process will be followed if a change to this sow is required:

- A Change Order (CO) will be the vehicle for communicating change. The CO must describe the change, the rationale for the change, and the effect the change will have on the project.
- The designated Project Manager of the requesting party (OES or Client) will review the proposed change and determine whether to submit the request to the other party.
- A written Change Authorization must be signed by both parties to authorize implementation of the any changes.

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## Optional Top Truss Upgrade - \$11,000

### Top Rectangle Truss

- 32'W x 3'H
- 32" Aluminum Letters
- Qty. 2 32" Aluminum Logo Plates
- Custom Artwork Included
- Installation Included
- Lettering based on the text PANTHERS (8 characters) and two logo plates. Additional characters will be quoted extra

## Play Clock Upgrade - \$4,883

### Play Clock Solution

- Qty. 2 SHOTS28 28" Play Clocks
  - Extension Cord Power Inputs
  - Outdoor Radio Kits
- ISC-HHX Handheld Wireless Controller
  - Lithium Battery Charger Included
  - Carry Case
- Installation Included on current structures



# Warranty, Training, and Support

OES takes great pride in the quality of our products. We are pleased to offer a comprehensive warranty, training, and technical support package.

## On Site Training & Subsequent Support

Immediately following installation of the LED Display OES will provide comprehensive training on all components and equipment.

## OES LED Video Worry Free Warranty

OES's LED video products include a Worry-Free warranty.

- 5-year parts warranty
- 10-year minimum parts availability to ensure your investment stays running.
- On-Site spare parts package to allow for quick repairs of the LED screen in the event of a failure. The spare parts package will include spares of each critical component including power supplies, data receiving cards, and Internal wire harnesses and cables.
- OES Factory repair of any defective components. During the warranty period items returned to OES will be repaired or replaced then returned to the customer

## Extended Warranty Packages

Extended warranty packages help ensure your investment stays running for many years. OES is pleased to offer our customers a variety of extended warranty options.

## After-Installation Support

Customer service is a paramount for post installation support. We offer the support of factory trained technicians who have comprehensive knowledge of all the hardware and software components. OES will provide complete operational support for the LED video products and all components for the life of the product. Technical support is offered during business hours by a team of trained technicians and an after-hours customer care hotline is also available for emergency support during evenings and weekends.

**Technical Support .....1-877-652-5833**

*Monday to Friday 8:00 am to 5:00 pm EST*

**After-Hours Customer Care Emergency Support..... 1-877-652-5833**

*Monday to Friday 5:00 pm to 8:00 pm EST*

*Saturday and Sunday 8:00 am to 5:00 pm EST*



# General Terms and Conditions

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This quote is valid for 30 days. All prices quoted are in US Funds. Please reference the quote # on your Purchase Order. Federal ID Number is required before shipping to the USA.

All present and future sales, use, excise and similar taxes imposed by any federal, state or provincial, local, or foreign government are extra, to the extent permitted by law. These taxes are not included in OES' proposal and will be for the account of the Purchaser. If this purchase order qualifies for tax exemption it is the responsibility of the Purchaser to provide all required documentation and certification confirming the tax exemption.

## Payment Terms:

- 50% down payment with purchase order
- 35% on completion of assembly and readiness to ship. Payment due prior to goods shipping from OES facility
- 15% on substantial completion of installation. Substantial completion shall be defined as the operational availability of the equipment in accordance with the equipment's specifications without regard to items which do not affect the operation of the equipment.
- Payment terms subject to credit review and approval by OES

Terms and Conditions: OES General Terms and Conditions apply, reference form GTC082020 attached.

Warranty: As per OES General Terms and Condition, reference form GTC082020, with the following exceptions:

- OES Manufactured Scoreboards, video display products including scoring tables, and ISC Series Controllers – 5 years after shipment from factory
- OES Indoor Retrofit Digit Kits – 5 years after shipment from factory
- OES Outdoor Retrofit Digit Kits – 1 year after shipment from factory
- OES Bolt, vMixPro and Motion Rocket Computer Systems – 1 year
- Batteries - 60 days
- Printed vinyl and graphics – 1 year
- OES will only be obligated to honor warranty upon receipt of full payment for equipment purchased and for accounts in good standing.

## PLEASE NOTE:

Freight quotes are for reference only and may change after 30 days or if shipping requirements change. Additional services such as lift gate truck must be requested at time of order or additional charges may apply after shipment. Failure to provide valid delivery contact information or delivery site conditions that delay off-loading may result in additional charges.

Scoreboard display products are UL, Entela, or QPS listed for use in Canada and USA. Please contact your sales representative for additional information.



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Proposal To:  
Saucon Valley High School

ILLUMINATED-INTEGRATION.COM

For:

2900 CANBY STREET  
HARRISBURG, PA 17103

Saucon Valley High School Stadium Sound System

717 996 4596

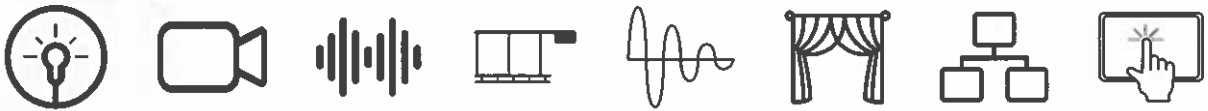
Version: 2.0

March 1, 2024

ii-2661



## WHAT WE DO



LIGHTING | VIDEO | AUDIO | RIGGING | ACOUSTICS | CURTAINS | NETWORKING | CONTROLS

## WHERE WE DO IT



PERFORMANCE VENUES | ARCHITECTURE FIRMS | MUSEUMS | CHURCHES | EDUCATION |  
THEMED ENTERTAINMENT | CORPORATE AV | SPORTS VENUES

## HOW WE DO IT



CONCEPT | DESIGN & REFINE | SYSTEM DESIGN | TECHNICAL DRAWING | PROJECT  
PLANNING & MANGEMENT | INSTALLATION | PROGRAMMING & COMMISSIONING |  
TRAINING | SERVICE & SUPPORT

## OUR MISSION

Illuminated Integration was formed on the basis that technology systems should be designed to achieve a unified user experience. This basis allows us to think creatively about how technology systems are specified, designed, and implemented. Our goal is to provide creative insight and help our clients make thoughtful decisions regarding Lighting, Video, Audio, Rigging, Acoustics, and Curtains.

## THE ILLUMINATED DIFFERENCE

Our team of creatives handle design and integration of permanently installed systems. We understand that there is no one-size-fits-all solution. That's why we never recycle old designs for new clients - each installation is custom-built from the ground up, and tailored to meet your needs and your priorities. We are unique in our ability to provide completely turnkey audio, video, lighting, rigging, and acoustic design solutions. We can handle projects of any complexity for a range of different markets, including performing arts centers, churches and houses of worship, museums, galleries and exhibit spaces, universities, and more. Whether you require a simple upgrade to your existing system, or a more comprehensive installation in a new facility, we will provide assistance at every step of the process.

FOUNDED  
2017

LOCATED  
HARRISBURG, PA

FULL-TIME  
TEAM MEMBERS  
45+

PROJECTS  
150+ ANNUALLY



No matter your market, from a place of worship to a themed attraction, a one-size-fits-all design won't capture your organization's mission. That's why we take a design-focused approach to lighting, video, audio, rigging, acoustics, and curtains. We create and implement original designs that deliver a purpose-built engaging experience for all.

## CHURCHES



**OTTERBEIN CHURCH**  
WAYNESBORO, PA



**CROSSING CHURCH**  
WASHINGTON CROSSING, PA

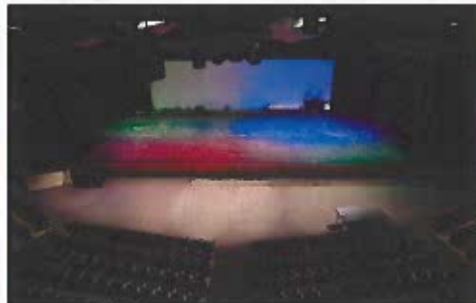


**SHELTER ROCK UCC**  
MANHASSET, NY

## THEATRES



**WEST SHORE THEATRE**  
NEW CUMBERLAND, PA



**WISSAHICKON HIGH SCHOOL**  
AMBLER, PENNSYLVANIA



**ST. JOSEPH'S PREPARTORY**  
PHILADELPHIA, PA

## THEMED ENTERTAINMENT



**JOLLY RANCHER REMIX**  
HERSHEY, PA



**PARX**  
SHIPPENSBURG, PA



**LIVE! WESTMORELAND**  
PITTSBURGH, PA

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## EXTERIOR LIGHTING



**HERSHEY MED CENTER**  
HERSHEY, PA



**WVU MEDICINE**  
MORGANTOWN, WV



**ECONOMIC ALLIANCE**  
YORK, PA

## CONFERENCE ROOMS



**VIBRANT EMOTIONAL HEALTH**  
NEW YORK, NY



**SERVICE 1ST**  
DANVILLE, PA



**TOWSON ANIMAL DENTAL**  
TOWSON, MD

## STUDIOS



**CARLISLE CONSTRUCTION MATERIALS**  
CARLISLE, PA



**MEMBERS 1ST**  
ENOLA, PA



**TRONEX**  
BUDD LAKE, NJ

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# MEET THE TEAM

## OUR ADMINISTRATIVE TEAM



**Tyler Hoffman** | Managing Creative



**Cindy Hoffman** | Director of Finance



**Jenn Kerr** | Lead Administrative Creative



**Sylvia Garner** | Lead Marketing Creative

## OUR PROJECTS TEAM



**Colby Hoffman** | Director of Projects



**David Hockenberry** | Director of Installation & Logistics



**Jason Spickler** | Shipping & Receiving Coordinator



**Abby Good** | Assistant Project Manager



**Kisha Martin** | Assistant Project Manager

## OUR INSTALLATION TEAM LEADERS



**Tim Kerr** | Lead Installation Creative



**Ted Best** | Lead Installation Creative



**Nathan Via** | Lead Installation Creative



**Adam Grace** | Assistant Lead Installation Creative



**Jared Parson** | Assistant Lead Installation Creative



**TJ Butenuth** | Assistant Lead Installation Creative

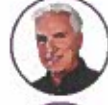


**Timothy Cribbs** | Assistant Lead Installation Creative

## OUR DESIGN TEAM



**Mike Birardi** | Director of Emerging Markets



**Bobby Dengler** | Director of Design & Sales



**Brett Zahniser** | Lead Client Relationship Creative



**Cody Toms** | Audio/Video Systems Creative



**Trace Morgan** | Audio/Video Systems Creative



**Ethan Smith** | Lighting/Rigging Systems Creative



**Brydon Lidle IV** | Lighting/Rigging Systems Creative



**Ken Friedhoff** | Lighting/Rigging Systems Creative



**Becky McCarthy** | Associate Design Creative



**John Kaufman** | Design Creative



**Ken Doty** | Technical Drawing Creative



**Edgar Sepulveda-Cruz** | Technical Drawing Creative

## OUR INTEGRATION TEAM



**Matt Summerson** | Director of Engineering & Integration



**Tyler Storr** | Systems Integration Creative



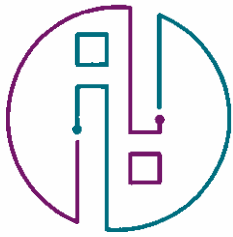
**Jonathan Langberg** | Systems Integration Creative



**Nate Maurer** | Systems Integration Creative



**Andrew Horton** | Systems Integration Technician Creative



ILLUMINATED  
INTEGRATION

## SUPPORT TIERS

When partnering with Illuminated Integration, you not only receive a group of people dedicated to your project, but a group of people who are trained experts in their craft. All of our new install customers receive complementary one year remote support included with your project. Our support tiers are additional to ensure your problems are fixed in a time frame necessary for your individual needs. Each of our customers have their own priorities and we want to ensure you receive the proper amount of support for a cost that fits your budget.



### BASIC

Maximum response time from receipt of support request of 3 business days

Any issues that require a technician to visit the site are billed as Time and Materials at the current Illuminated Integration labor rates



### ADVANCED

Maximum response time from receipt of support request of 1 business day

Includes 1 day of preventative maintenance, software/firmware upgrades available, general cleaning

Any issues that require a technician to visit the site beyond the included day of preventative maintenance are billed as Time and Materials at the current Illuminated Integration labor rates



### PREMIER

Maximum response time from receipt of support request of 1 business day

Includes 2 days of preventative maintenance, available software/firmware upgrades, general cleaning

Includes support for multiple venues/systems within a single campus location

Any issues that require a technician to visit the site beyond the included days (2) are billed as Time and Materials at the current Illuminated Integration labor rates

## STADIUM

### SCOPE

#### OVERVIEW

Illuminated Integration is proposing to provide and install a new sound system in the new scoreboard at Saucon Valley High School Football Stadium in Hellertown, PA.

Please note that Illuminated Integration will work with the client to modify or adjust this proposal based on the client's feedback.

Illuminated Integration will work with the client to finalize the design of these technical systems. During this time, budgeting, schematics, and product selections will occur to help guide the entire scope of the project. We will coordinate meetings with the necessary individuals to ensure that a finalized proposal is completed.

Illuminated Integration's scope of work is to provide and install equipment and systems that are a best fit for the client. We will provide drawings and equipment documentation for the design if requested. While advice may be offered when requested, Illuminated takes no responsibility for the fitness or safety of any work, systems design, or electrical design completed by the Client or by others. Any permitting required for this work is the responsibility of the Client.

Any changes requested by client/owner may incur pricing changes. We will work to ensure these requests are compatible with systems to be installed.

#### NEXT STEPS

Upon approval of this proposal, Illuminated Integration will begin communicating design ideas and necessary equipment with the client. We will then coordinate a follow up design meetings with the client. Illuminated will then submit all necessary documents.

100% Equipment & Shipping Deposit Due Prior to Equipment Ordering  
50% Labor + 50% Travel Due Upon On-Site Start of Work (NET 20)  
25% Labor + 25% Travel Due Upon 50% Work Progression (Net 20)  
Remaining Balance Due Upon Project Completion (NET 20)

**\*\*Labor includes installation, engineering, management and programming labor types.\*\***

**\*\*\*Credit Card payment will incur a 4% Fee.\*\*\***

**\*\*\*ACH Transfers will incur no additional fees.\*\*\***

Illuminated Integration reserves the right to invoice for equipment and work in place. Payments on invoiced equipment and work in place cannot be withheld due to material shortages or outstanding work to be completed.

Illuminated Integration is estimating that a total project span of 5-8 days will be required to complete the outlined work. This is relying on the input from the client to answer questions as they arise. We will work to maintain this schedule as best as possible and work to coordinate with the client's timelines.

#### PROJECT DETAILS

The new sound system shall consist of (3) 12" 2 way outdoor pole mounted speakers, (3) localized down fill speakers around the press box with audio intelligibility. The system will contain a rack with the system digital signal processing, wireless microphone receivers as well as an 7" touchscreen for intuitive system control and event audio presets. The touchscreen shall have level control for the announcer mic, two wireless handheld microphone, and a consumer "device" input connection jack for music playback. The press box will also contain two fixed monitor speakers for accurate sound reproduction within the booth.

All cabling, equipment installation, programming, tuning and training is included with this proposal.

## AUDIO - MAIN FIELD SPEAKERS & AMPS

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
3	Community Professional Loudspeakers R.5-66MAX Full-Range 2-Way 12-Inch High Output 60 X 60 Grey	\$1,902.47	\$5,707.41	\$0.00	\$5,707.41
3	Community Professional Loudspeakers PMB-2RR Pole Mount Bracket, Single/Dual Loudspeakers, Pan-Tilt	\$318.00	\$954.00	\$0.00	\$954.00
2	One Systems ONE.SL12 Light gray 12-inch two-way with U-Bracket	\$1,063.00	\$2,126.00	\$0.00	\$2,126.00
2	Powersoft Quattrocanali 4804 DSP 4800W/4-channel Flexible Amplifier Maximum output power @ 4 Ω Bridged 800 W 1600 W 3000 W	\$3,013.33	\$6,026.66	\$0.00	\$6,026.66
0.5	ICE Cable Systems 12-2/P/Black 12awg, 2 Cond, Plenum Rated	\$376.00	\$188.00	\$0.00	\$188.00
0.75	ICE Cable Systems 10-2FX/Spool/Black 10awg, 2 Cond, Direct Burial, 105 Strand, Wet Slick, OFC-500ft	\$645.00	\$483.75	\$0.00	\$483.75
1	Illuminated Integration Misc. Rigging Misc. hanging hardware for rigging, stainless pole straps, clamp hdw, conduit	\$1,000.00	\$1,000.00	\$0.00	\$1,000.00
1	Illuminated Integration Installation Labor provided by Illuminated Integration	\$0.00	\$0.00	\$7,200.00	\$7,200.00
<b>AUDIO - MAIN FIELD SPEAKERS &amp; AMPS TOTAL</b>					<b>\$23,097.22</b>

## MICS & CONTROLS

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
1	Shure BETA 58A Supercardioid Dynamic with High Output Neodymium Element, for Vocal and Instrument Applications	\$167.00	\$167.00	\$0.00	\$167.00
1	RapcoHorizon SAS2 PUSH TO TALK w/6IN GOOSENECK	\$265.00	\$265.00	\$0.00	\$265.00
0.85	West Penn Wire AQC292GY1000 1P 20G STRD SHLD W-BLOCK	\$253.00	\$215.05	\$0.00	\$215.05
1	Attero Tech unD6IO-BT 4x2 Channel 2 Gang US, Dante/AES67 Wall Plate w/Bluetooth, RCA, 3.5mm I/O, PoE (white and black faceplates included)	\$996.00	\$996.00	\$0.00	\$996.00

# Illuminated Integration

Confidential Proposal

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
1	Cisco CBS350-16P-2G 18 Ports - Manageable - 2 Layer Supported - Modular - 2 SFP Slots - 25.01 W Power Consumption - 120 W PoE Budget	\$0.00	\$0.00	\$0.00	\$0.00
1	QSC CORE 110f Bundle Core 110f, UCI License, Scripting License	\$4,682.00	\$4,682.00	\$0.00	\$4,682.00
1	QSC TSC-710t-G3 Table top mounting accessory for TSC-70W-G3 and TSC-101W-G3.	\$346.00	\$346.00	\$0.00	\$346.00
1	QSC TSC-70-G3 Q-SYS 7" PoE Touch Screen Controller for In-Wall Mounting. Color - Black only	\$1,447.00	\$1,447.00	\$0.00	\$1,447.00
0.9	SmartWire CAT6 Cat6 23-4P Non-plenum	\$219.00	\$197.10	\$0.00	\$197.10
1	SurgeX SX-DS-158 Defender Series, MultiStage Surge Suppression, Rackmount Power Protection	\$228.00	\$228.00	\$0.00	\$228.00
1	Shure HA-8089 Professional Wireless Systems Helical Antenna (480-900 MHz)	\$495.00	\$495.00	\$0.00	\$495.00
0.1	SmartWire RG59HD-BLK RG59U HDSDI Blk Jkt	\$0.00	\$0.00	\$0.00	\$0.00
1	Middle Atlantic EWR-16-22 16SP/22D ECONO WALLRK BK	\$672.00	\$672.00	\$0.00	\$672.00
1	Field Connection Wall Plate 6"x6" wall plate with 2 mic/line send and 2 returns with network connection	\$71.00	\$71.00	\$0.00	\$71.00
1	Middle Atlantic LVFD-16 16SP LARGE PERF FR DOOR	\$320.00	\$320.00	\$0.00	\$320.00
1	CyberPower OR700LCDRM1U 700VA RM 140V 5-15P LINE-INT	\$314.00	\$314.00	\$0.00	\$314.00
1	Illuminated Integration Misc Racks & Power Misc rack plates and cable management	\$300.00	\$300.00	\$0.00	\$300.00
1	Illuminated Integration Audio System Tuning System Audio Tuning	\$0.00	\$0.00	\$1,256.00	\$1,256.00
1	Illuminated Integration Programming & Commissioning Initial System Set-up and Training	\$0.00	\$0.00	\$5,400.80	\$5,400.80
1	Illuminated Integration Installation Labor provided by Illuminated Integration	\$0.00	\$0.00	\$3,856.65	\$3,856.65
<b>MICS &amp; CONTROLS TOTAL</b>					<b>\$20,534.70</b>

## AUDIO - IN PRESS BOX SPEAKERS & AMP

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
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# Illuminated Integration

Confidential Proposal

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
1	QSC SPA2-60 1/2 RU 2 Channel ENERGY STAR amplifier / Stereo operation 60 watts into 8Ω & 4Ω, Bridged operation 200 watts into 8Ω & 4Ω, and 250 watts into 70v and 100v / 100-240 VAC Operation.	\$575.00	\$575.00	\$0.00	\$575.00
1	QSC AD-S5T-BK 5.25" Two-way surface speaker, 70/100V transformer with 8Ω bypass, 115° conical DMT™ coverage, includes X-Mount™ and weather input cup. Color - Black. Priced individually, sold only in pairs.	\$218.00	\$218.00	\$0.00	\$218.00
0.5	ICE Cable Systems 14-2/P/Black 14awg, 2 Cond, 41 Strand, Plenum Rated, Black, BMP Box, 500 ft	\$247.00	\$123.50	\$0.00	\$123.50
1	Illuminated Integration Hardware Misc Hardware	\$100.00	\$100.00	\$0.00	\$100.00
1	Illuminated Integration Installation Labor provided by Illuminated Integration	\$0.00	\$0.00	\$916.80	\$916.80
<b>AUDIO - IN PRESS BOX SPEAKERS &amp; AMP TOTAL</b>					<b>\$1,898.02</b>

## ADDITIONAL COSTS

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
1	Illuminated Integration Lift Rental 1 week	\$2,800.00	\$2,800.00	\$0.00	\$2,800.00
1	Illuminated Integration Tier 0 - Technical Drawing Package System Riser, Rack Drawing (if applicable), Marked Up Photos or Client provided architectural drawings.	\$0.00	\$0.00	\$3,120.00	\$3,120.00
1	Illuminated Integration System Training Training for system	\$0.00	\$0.00	\$879.20	\$879.20
<b>ADDITIONAL COSTS TOTAL</b>					<b>\$6,799.20</b>
<b>EQUIPMENT TOTAL</b>					<b>\$31,017.47</b>
<b>LABOR TOTAL</b>					<b>\$21,311.67</b>
<b>STADIUM TOTAL</b>					<b>\$52,329.14</b>

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**ADD OPTION - TENNIS COURT COVERAGE**


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**AUDIO - MAIN FIELD SPEAKERS & AMPS**

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
1	Community Professional Loudspeakers R2-52MAX Full-Range 3-Way Dual 12-Inch, Dual M200Hp Mf Drivers, High Output 50 X 20	\$3,588.95	\$3,588.95	\$0.00	\$3,588.95
0.75	ICE Cable Systems 10-2FX/Spool/Black 10awg, 2 Cond, Direct Burial, 105 Strand, Wet Slick, OFC-500ft	\$644.59	\$483.44	\$0.00	\$483.44
1	Illuminated Integration Misc. Rigging Misc. hanging hardware for rigging, stainless pole straps, clamp hdw, conduit	\$200.00	\$200.00	\$0.00	\$200.00
1	Illuminated Integration Installation Labor provided by Illuminated Integration	\$0.00	\$0.00	\$1,652.85	\$1,652.85
<b>AUDIO - MAIN FIELD SPEAKERS &amp; AMPS TOTAL</b>					<b>\$5,925.24</b>
<b>SHIPPING AND TAXES</b>					<b>\$0.00</b>

**MICS & CONTROLS**

QTY	DESCRIPTION	PRICE	PRICE EXT	LABOR EXT	TOTAL
1	Winegard WE7550A ELITE 7550	\$190.00	\$190.00	\$0.00	\$190.00
0.25	SmartWire RG59HD-BLK RG59U HDSOI Blk Jkt	\$0.00	\$0.00	\$0.00	\$0.00
1	RF Venue 2X1SPLIT RF Splitter	\$150.00	\$150.00	\$0.00	\$150.00
1	RF Venue BPF470T560 Band-Pass Filter (470-560 MHz)	\$399.00	\$399.00	\$0.00	\$399.00
<b>MICS &amp; CONTROLS TOTAL</b>					<b>\$739.00</b>
<b>SHIPPING AND TAXES</b>					<b>\$0.00</b>

## SUMMARY

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EQUIPMENT TOTAL	\$5,011.39
LABOR	\$1,652.85
SHIPPING	\$274.39
PROJECT MANAGEMENT 0000100	\$566.46
SHIPPING	\$0.00
SALES TAX	\$0.00
<b>ADD OPTION - TENNIS COURT COVERAGE TOTAL</b>	<b>+\$7,505.09</b>

ACCEPTANCE

FINANCIAL

PAYMENT SCHEDULE

- 100% Equipment & Shipping Deposit Due Prior to Equipment Ordering
- 50% Labor + 50% Travel Due Upon On-Site Start of Work (NET 30)
- 50% Labor + 50% Travel Due Upon Project Completion (NET 30)

\*\*Labor includes installation, engineering, management and programming labor types.\*\*

\*\*\*Credit Card payment will incur a 4% Fee.\*\*\*

\*\*\*ACH Transfers will incur no additional fees.\*\*\*

EQUIPMENT TOTAL	\$31,017.47
SHIPPING TOTAL	\$200.00
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ENGINEERING	\$3,120.00
INSTALLATION	\$11,349.57
MANAGEMENT	\$1,884.00
PROGRAMMING	\$4,958.10
LABOR TOTAL	\$21,311.67
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SHIPPING	\$1,453.68
PROJECT MANAGEMENT 0000100	\$4,447.98
TRAVEL	\$4,555.00
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SUBTOTAL	\$62,985.80
TOTAL SALES TAX	\$0.00
PROJECT TOTAL	\$62,985.80

<p>OPTIONS Not included in the project total. Initial to the left to add the option to your project.</p>		
_____	ADD OPTION - TENNIS COURT COVERAGE	+\$7,505.09

TERMS

I accept this proposal and hereby authorize Illuminated Integration to proceed with the installation of the included systems at the facilities of Saucon Valley High School constructing at 2100 Polk Valley Rd Hellertown, PA 18055 as described in the totality of this document. I further authorize Illuminated Integration 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 Illuminated Integration. It has been made clear to me that there exist no understandings regarding this project with any relevant party unless and until Saucon Valley High School and Illuminated Integration 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 Saucon Valley High School or their staff, construction, other building trades or any other party, and additional costs may be incurred by Saucon Valley High School from Illuminated Integration. 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 Saucon Valley High School and Illuminated Integration. This proposal is valid only if accepted in writing by Saucon Valley High School by March 15, 2024.

**If any delays occur in payments based on the terms listed above interest at 18% will be charged per month after payment is due.**

\*\*\*Due to rapid manufacturer price increases, if a manufacturer increases their equipment prices prior to an equipment deposit being received, Illuminated Integration reserves the right to send an invoice for the difference of this price change. This additional cost/price increase will be sent as its own invoice for clarity.\*\*\*

## ACCEPTANCE

Saucon Valley High School

\_\_\_\_\_

SIGNED

\_\_\_\_\_

DATE

\_\_\_\_\_

PRINT NAME

\_\_\_\_\_

TITLE

Illuminated Integration

\_\_\_\_\_

SIGNED

\_\_\_\_\_

DATE

\_\_\_\_\_

PRINT NAME

\_\_\_\_\_

TITLE



**ONE SYSTEMS**  
ACOUSTIC EXCELLENCE

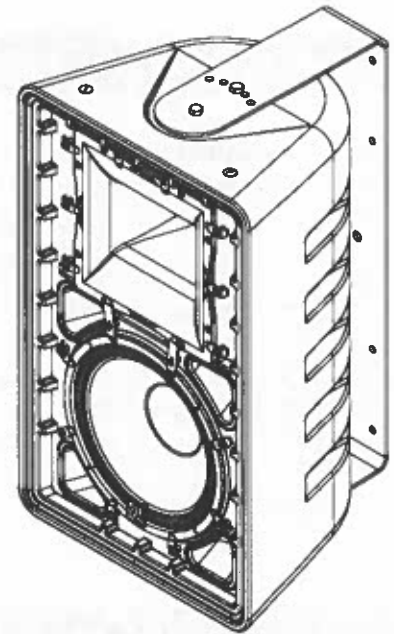
## ONE.SL12

### OVERVIEW:

The One Systems ONE.SL12 is a weather protected, direct-radiating 12-inch two-way loudspeaker solution for professional audio applications indoors or for inland uses outdoors. The system's direct-radiating transducers include a 12-inch woofer with a 3-inch voice coil and a compression driver with a 2.5-inch pure titanium diaphragm coupled to a large rotatable 60° x 40° horn. Its one-piece rotomolded enclosure is made of UV resistant High-Density Polyethylene (HDPE) with internal steel reinforcements for added strength. The enclosure is ported to enhance low frequency performance. The input section features an input weather cover with an IP 68-rated gland nut and its barrier strip has stainless steel hardware. The enclosure has 10 x M10 integrated stainless steel rigging points, which can be used in conjunction with the included U-Bracket for mounting to walls or ceilings. An optional pole mount bracket is also available for additional installation flexibility.

### PERFORMANCE:

The ONE.SL12 provides high vocal intelligibility with wide response capability from its reasonably-sized enclosure. Its large-sized compression driver with pure titanium diaphragm delivers extended response with accurate transients. The long-throw horn is rotatable to facilitate horizontal or vertical placement for added flexibility. The woofer's specially treated cone and surround provide moisture resistance, protection against dry rotting as well as excellent acoustic damping. The ONE.SL12's vented enclosure and premium transducers provide 124 dB continuous, 130 dB peak output capability with wide frequency response and excellent transients for precise vocals and accurate music reproduction.



### FEATURES AND BENEFITS

- High-performance 12-inch two-way speaker that provides high intelligibility, musical fidelity and full-range response
- 400 watts continuous, 1,600 watts peak power handling
- Rotatable 60° x 40° long-throw horn
- Includes a robust structural steel U-Bracket with dual-layer, zinc-rich powder coating
- 3-stage "Rain Shield" grille
- 10 x M10 Stainless steel rigging points provide safety and high corrosion resistance
- IP 55 direct weather rating permits use for inland outdoor applications
- Input weather cover with IP 68-rated gland nut
- Optional SL.PMT pole mount bracket available

## ONE.SL12 SPECIFICATIONS

**Frequency Response:** 55 - 18,000 Hz  $\pm$  3 dB  
**Frequency Range:** 45 - 20,000 Hz -10 dB  
**Power Handling:** 400 watts continuous  
 800 watts program  
 1,600 watts peak \*

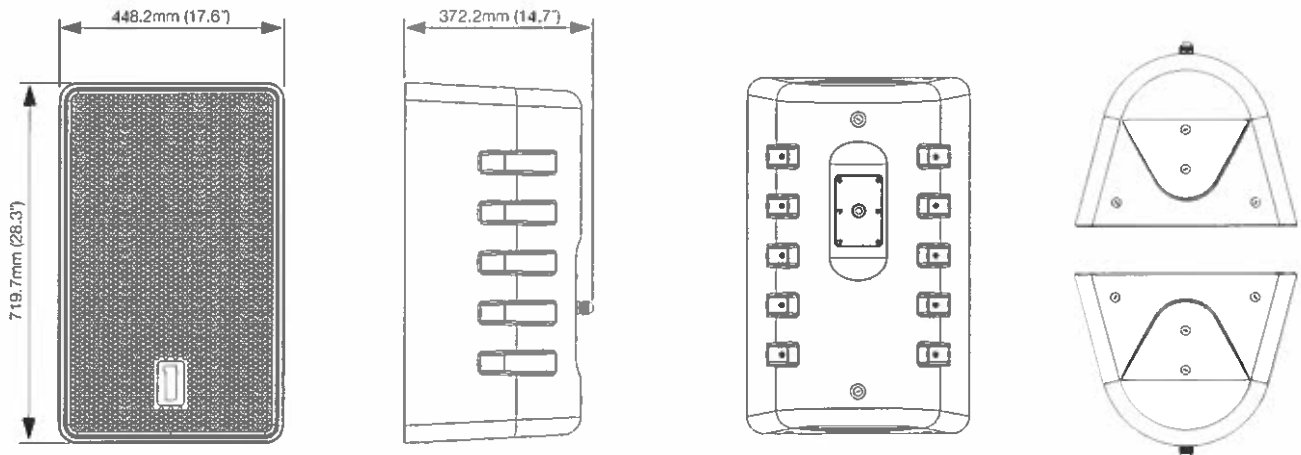
\* **NOTE:** All system power handling ratings are amplifier headroom dependent

**Sensitivity (1 watt @1 meter):** 98 dB  
**Calculated Output Capability:** 124 dB continuous  
 130 dB peak  
**Coverage (H x V):** 60° x 40° Rotatable  
**Nominal Impedance:** 8 ohms

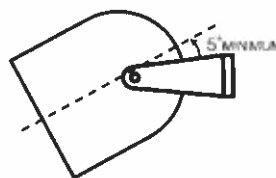
**Input Connection:** Barrier strip  
**LF Transducer:** 12 in / 305 mm with 3 in voice coil  
**HF Transducer:** 2.5 in / 63 mm with titanium diaphragm  
**Dimensions (H x W x D), mm:** 719.7 x 448.2 x 372.2 mm  
**Dimensions (H x W x D), in:** 28.3 x 17.6 x 14.7 in  
**Net Weight:** 26 kg / 57.3 lb  
**Direct Weather Performance:** IEC 60529 / IP 55  
**Finish:** Gray  
**Recommended High-Pass:** 55 Hz, 24 dB Butterworth  
**Optional Accessories:**  
**Pole Mount Bracket:** One Systems SL.PMT  
**EASE Data:** [www.onesystems.com/ease-data](http://www.onesystems.com/ease-data)

## DIRECT-WEATHER FEATURES

- \* Rotomolded enclosure is made of High-Density Polyethylene (HDPE) resin with steel reinforcements that provides very high UV, moisture and temperature resistance
- \* All rigging hardware is made of stainless steel for long-term safety and high corrosion resistance
- \* Three-layer "rain shield" grilles are made of structural steel with a marine-capable powder coating that permits use for inland outdoor applications more than 16 km / 10 miles from oceans or salt air
- \* The system is rated IEC 60529 Standard / IP 55 (protected against water spray from any direction; protected from limited dust ingress)
- \* Input weather cover with an IP 68-rated gland nut prevents moisture intrusion
- \* Advanced woofer features a specially-treated cone and surround that are specially treated to handle moisture, temperature and humidity extremes while delivering premium audio performance



The ONE.SL12 must be installed with a minimum 5-degree down-tilt. If mounted vertically, the logo should be positioned at the bottom of the speaker



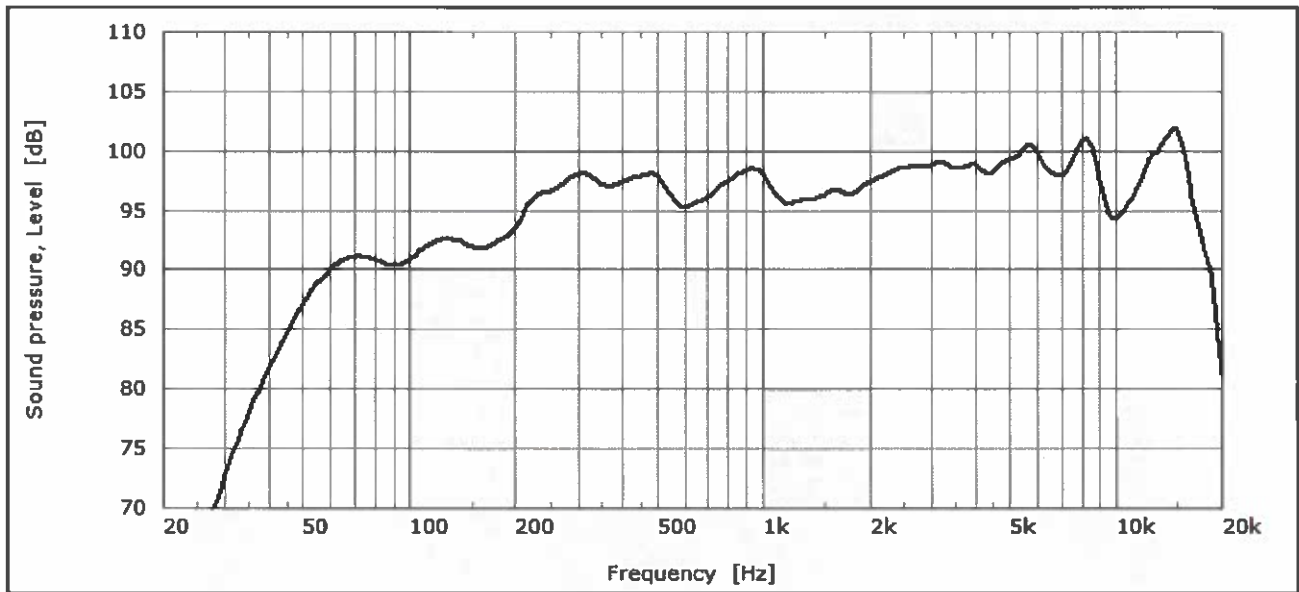
One Systems, Inc.

[www.onesystems.com](http://www.onesystems.com)

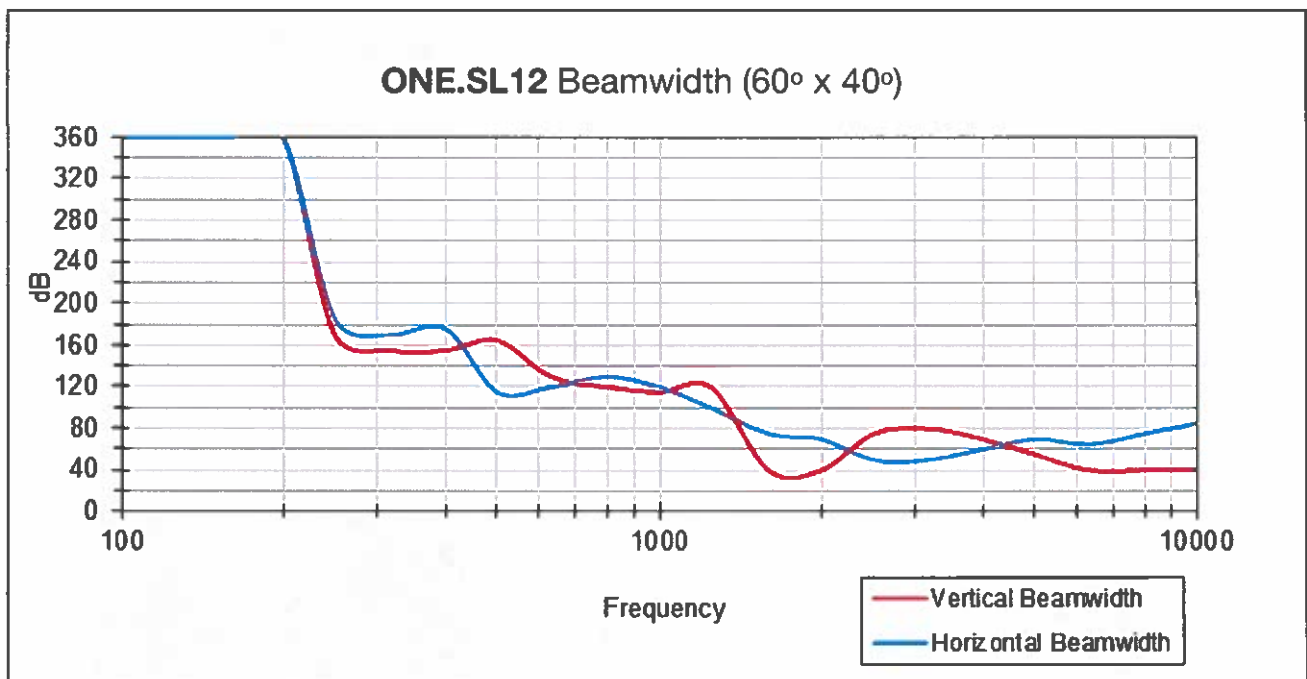
tel: +1-615-823-1655

fax: +1-615-261-1429

### ONE.SL12 Response (60° x 40°)



### ONE.SL12 Beamwidth (60° x 40°)



**ONE SYSTEMS**<sup>®</sup>  
ACOUSTIC EXCELLENCE<sup>®</sup>

One Systems, Inc.

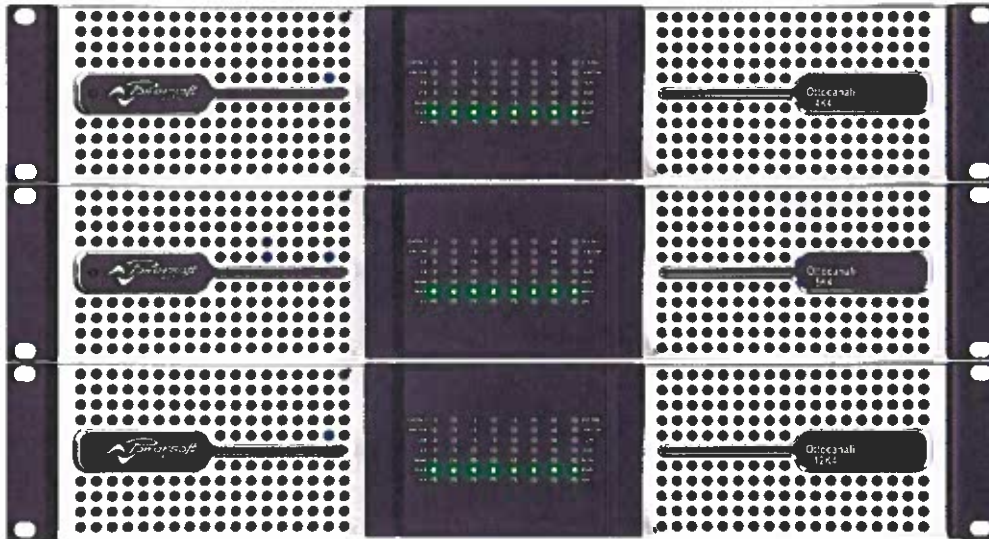
[www.onesystems.com](http://www.onesystems.com)

tel: +1-615-823-1655

fax: +1-615-261-1429

# Ottocanali Series

## 8-Channel Fixed Installation Amplifier Platform



- TOURING
- INSTALLATION

8  
LO-Z  
HI-Z  
CHANNELS

2U

SAFETY  
RELIABILITY

SRM

PFC

Armonia+Plus  
System Manager

The Ottocanali Series is a flexible and reliable 8-channel power amplifiers with up to a total of 12,000 W at 4Ω, ideal for multi-zone applications in medium to large-scale installs: Ottocanali Series supports any combination of lo-Z loudspeakers, mono-bridgeable channel pairs and 70V/100V Hi-Z distributed lines with no need for output step-up transformers.

The Ottocanali Series features switchable main/aux signal inputs and offers a wide range of system control, alarms, GPI/O and monitoring functions as well as sound shaping options.

The Ottocanali 12K4

implements redundant universal switch mode power supplies with PFC and patented SRM (Smart Rails Management) technology maximizing reliability, efficiency and reducing power consumption.

The in-built AC Protection intervenes when the AC Mains voltage is outside operating ranges by switching off the amplifier.

Powersoft's legendary efficiency saves valuable energy, keeping both operational cost and 'carbon footprint' at a minimum: the Ottocanali 12K4 shines with outstandingly low power consumption and heat

dissipation; This dramatically reduces costs from the AC mains supply and air conditioning/cooling systems – not to mention the benefits to the environment for a greener planet.

- ▶ Multi-zone venues
- ▶ Themed entertainment, amusement parks, shopping malls
- ▶ Cruise ships
- ▶ Stadiums, arenas, convention centers
- ▶ Houses of worship
- ▶ Theaters, auditoriums, concert halls
- ▶ Main systems, central or distributed, lo-Z/hi-Z

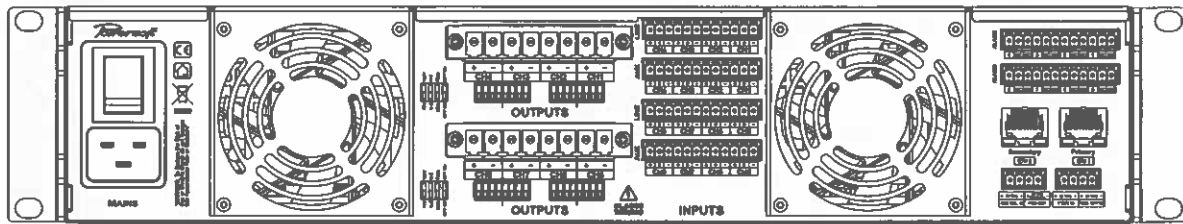
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POWERSOFT.COM

# Ottocanali Series

## 8-Channel Fixed Installation Amplifier Platform



### Specifications

#### Channel Handling

Number of output channels	8 Hi-Z or Lo-Z (bridgeable per ch. pair)	2x 8 Pin Phoenix DFK PC 4/8 G-7.62
Number of input channels		
Analog	8 Main Line	12 Pin Phoenix MC 1.5/12-ST-3.81
	8 AUX	12 Pin Phoenix MC 1.5/12-ST-3.81

#### Audio

Gain	32 dB
Input sensitivity @ 8 Ω	1.94 V/ +8 dB
Max input level	6V / +17.8 dBu
Frequency Response (±0.5 dB, 1 W @ 8 Ω)	20 Hz - 20 kHz
Crosstalk (1 kHz)	-65 dB
S/N (20 Hz - 20 kHz A-Weighted @ 8 Ω)	>106 dB
Input impedance	20 kΩ Balanced
THD+N (from 0.1 W to Full Power)	< 0.08% (typical < 0.05%)
DIM (from 0.1 W to Full Power)	< 0.8%
Slew Rate (input filter bypassed @ 8 Ω)	> 50 V/μs
Damping Factor @ 8 Ω, 20 Hz - 100 Hz	> 1000

#### Thermal

Operating temperature	0° - 35° C / 32° - 95° F			
Cooling	Fan, variable speed, temperature controlled, front to rear airflow			
Thermal dissipation	@ 115 V			
	@ 230 V			
Idle	160 BTU/h	41 kcal/h	170 BTU/h	43 kcal/h
4K4 1/8 Max Output Power @ 4 Ω	801 BTU/h	202 kcal/h	839 BTU/h	211 kcal/h
1/4 Max Output Power @ 4 Ω	1340 BTU/h	338 kcal/h	1340 BTU/h	338 kcal/h
Idle	160 BTU/h	41 kcal/h	170 BTU/h	43 kcal/h
8K4 1/8 Max Output Power @ 4 Ω	1480 BTU/h	373 kcal/h	1504 BTU/h	379 kcal/h
1/4 Max Output Power @ 4 Ω	2792 BTU/h	704 kcal/h	2722 BTU/h	686 kcal/h
Idle	160 BTU/h	41 kcal/h	170 BTU/h	43 kcal/h
12K4 1/8 Max Output Power @ 4 Ω	2141 BTU/h	540 kcal/h	1937 BTU/h	488 kcal/h
1/4 Max Output Power @ 4 Ω	4283 BTU/h	1080 kcal/h	3874 BTU/h	977 kcal/h

#### Construction

Dimensions	483 x 89 x 360 mm 19.0 x 3.5 x 14.2 in
Weight	14 Kg (30.8 lb)

Data subject to change without notice.

#### Output Stage

	4K4	8K4	12K4
Maximum output power per channel @ 8 Ω	250 W	600 W	850 W
Maximum output power per channel @ 4 Ω	500 W	1000 W	1500 W
Maximum output power per channel @ 2 Ω	450 W	850 W	1000 W
Maximum output power @ 8 Ω Bridged (Channel Pair)	1000 W	2000 W	3000 W
Maximum output power @ 4 Ω Bridged (Channel Pair)	900 W	1700 W	2000 W
Maximum output power @ Hi-Z distributed line 100 V	500 W	1000 W	1500 W
Maximum output power @ Hi-Z distributed line 70 V	500 W	1000 W	1500 W
Maximum unclipped output voltage @ 8 Ω	65 V <sub>peak</sub>	90 V <sub>peak</sub>	116.6 V <sub>peak</sub>
Maximum output current	15 A <sub>peak</sub>	23 A <sub>peak</sub>	45 A <sub>peak</sub>

The power figure is calculated by driving and loading symmetrically all the channels: uneven loads allow to achieve higher performances.

#### AC Mains Power

Power supply	Redundant Universal, regulated switch mode with PFC (Power Factor Correction)		
Nominal voltage (±10%)	100-240 V @ 50-60Hz		
Power factor (> 500 W output)	> 0.95		
Consumption/current draw	@ 115 V		@ 230 V
	4K4	8K4	12K4
Idle	47 W	0.75 A	50 W
1/8 Max Output Power @ 4 Ω	740 W	6.6 A	750 W
1/8 Max Output Power @ 4 Ω	1425 W	12.6 A	1425 W
Idle	47 W	0.75 A	50 W
1/8 Max Output Power @ 4 Ω	2075 W	18.5 A	2115 W
AC Mains connector	IEC C20 inlet (20 A max) region-specific power cord provided		

#### Networking

Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star, Daisy Chain, Looped Daisy Chains, Redundant Star
Remote interface	ArmoniaPlus™



POWERSOFT.COM

# Product Specifications

## Beta® 58A Supercardioid Dynamic Vocal Microphone

### Overview

The Shure Beta 58A dynamic vocal microphone is precision-engineered for professional live sound reinforcement and studio recording applications. A tailored frequency response accentuates clarity of vocals and a tight supercardioid pattern insures high gain before feedback, maximum isolation from other sound sources and minimum off-axis tone coloration.

### Features

- Premier live performance microphone with Shure quality, ruggedness, and reliability
- Uniform supercardioid pick-up pattern for maximum gain before feedback and superior rejection of off-axis sound
- Tailored frequency response specifically shaped for vocals, with brightened midrange and bass roll off to control proximity effect
- Neodymium magnet for greater sensitivity and higher output
- Advanced pneumatic shock mount system that minimizes transmission of mechanical noise and vibration
- Dent-resistant steel mesh grille and enamel coated die-cast metal construction resist wear and abuse
- Effective built-in pop filter reduces undesirable wind and breath noise

### Available Models

<b>Beta 58A</b>	Supercardioid Dynamic Vocal Microphone with High-output Neodymium Element
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Beta 58A

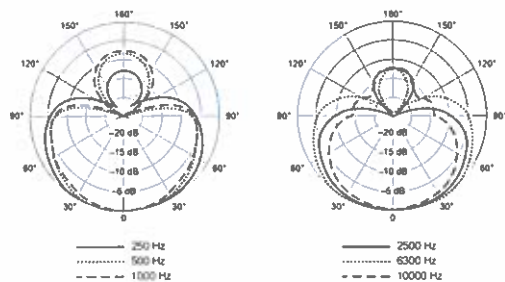
### Specifications

Cartridge Type	Dynamic (moving coil)
Frequency Response	50 to 16,000 Hz
Polar Pattern	Supercardioid
Output Impedance	150 Ω
Sensitivity (at 1kHz, open circuit voltage)	-51 dBV/Pa (2.8 mV) 1 Pascal=94 dB SPL
Weight	Net: 0.278 kg (0.62 lbs)
Connector	Three-pin professional audio (XLR), male

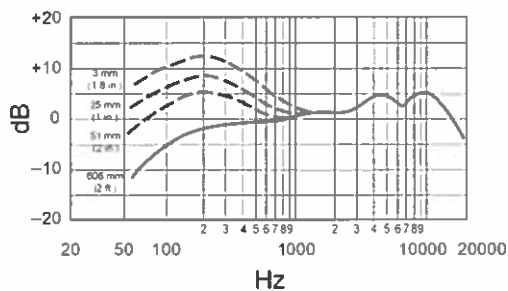
### Accessories and Replacement Parts

<b>RK265G</b>	Replacement grille	<b>R176</b>	Replacement cartridge
<b>A58WS</b>	Gray microphone windscreen	<b>A25D</b>	Microphone clip

#### Polar Pattern



#### Frequency Response



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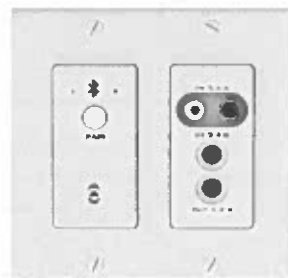


## Attero Tech by QSC unD6IO-BT

Dante™/AES67 network audio wallplate  
4x2 multi-I/O with Bluetooth audio

### Features

- Dante Domain Manager™ ready
- Simple one button pairing/connect process, multiple pairing modes - manual (default), auto and exclusive
- Defeatable pairing button for restricted use applications with third-party control systems
- Compatible with most smartphones, Apple iPads, and Android tablets - both media streaming and smartphone bridging
- RCA inputs and 3.5 mm input (each summed to mono) can be selected via software, individually or in combination
- Ships with both black and white Decora plates and fascia inserts
- Product accessory kit available



### Applications: Hotel Ballrooms • Spas • Fitness Facilities Convention Centers • Education • Conference Center

The unD6IO-BT Dante/AES67 audio interface with Bluetooth® is a cost-effective, multi-I/O wall plate. The unD6IO-BT features stereo Bluetooth wireless audio input connectivity along with (2) RCA line level inputs and a 3.5 mm TRS line level input. A 3.5 mm TRS line level output on the front is also included. The unD6IO-BT is designed to fit into most dual-gang US junction boxes and is PoE enabled, so all connectivity (power, control and audio data) is provided by a single CAT-5e/6 cable. The wall plate's unique mix of consumer-style wired and wireless connectivity allows easy connection to a wide variety of user devices on a Dante or AES67 network eliminating the possibility of ground loop issues or other audio problems commonly found in consumer devices.

The unD6IO-BT integrates seamlessly into the Q-SYS™ Ecosystem. In addition to AES67 network audio compatibility, a Q-SYS Designer control plugin is available for the unD6IO-BT via the Q-SYS Designer Asset Manager, allowing you to control and monitor the unD6IO-BT via native Q-SYS touch screen controllers.

The "call bridging" mode provides call connectivity for Bluetooth-equipped devices within a modern conferencing system. The addition of Bluetooth connectivity provides simple bridging of far-end meeting participants for on-the-fly meeting productivity and backup conferencing connectivity in the case of VoIP and/or web-based conferencing service failures.

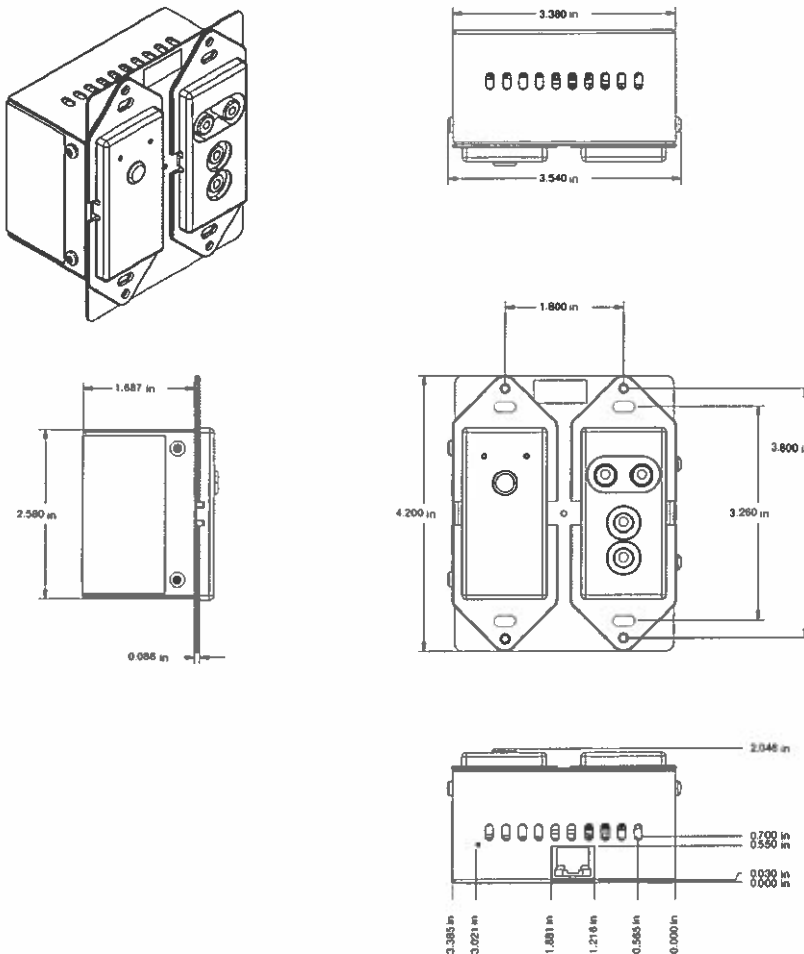
**Audio Routing Note:** The input configuration can be modified using the unIFY Control Panel software or other compatible controllers. Audio channels 1 and 2 route the stereo Bluetooth audio directly to Dante. The Dante transmitter channels 3 and 4 can be sourced from the RCA inputs, 3.5 mm inputs or a sum of each (RCA-L + 3.5 mm-L, and RCA-R + 3.5 mm-R) via the switchable input selection. Audio from Dante output channels 1 and 2 is sent to Output 1 and 2 respectively.

# unD6IO-BT Details

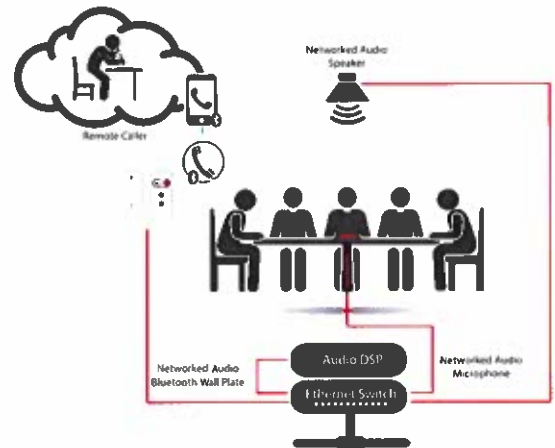
## Specifications

System Details	unD6IO-BT
Bluetooth® profile	A2DP - Stereo audio is streamed from a Bluetooth® device and onto the Dante network. HFP (Hands Free Profile) - duplex pairing to a cell phone for call bridging
Bluetooth® range	10 m (30 ft) minimum. Typical range is 15 - 23 m (50 - 75 ft)
RCA and 3.5 mm input	RF filtered line level, input source software selectable
Maximum input levels (3.5 mm / RCA):	+12 dBu
Output volume range	0 dB to -60 dB in 1 dB steps, software selectable
Output noise	< -90 dBu @ 0 dB gain
3.5 mm output	RF filtered line level
Maximum output level (3.5 mm)	+12 dBu
System THD	<.02% at any gain, input signal 3 dB below maximum (wired I/O only)
Certifications	FCC 47CFR Parts 15B and 18 (Class A), EN 55011, ICES-003, CE (EN55022 Class A and EN55024 Class A)
Product dimensions (H x W x D)	3.54 x 4.2 x 1.88 in (89.91 x 106.68 x 47.752 mm)
Shipping dimensions (H x W x D)	6 x 6 x 4 in (152.4 x 152.4 x 101.6 mm)
Shipping weight	1.00001682 lb (0.4536 kg)
Operating temperature	0°C - 40°C

## Dimensions:



## Bluetooth Call-Bridging Application Example:



This application diagram highlights the general system connectivity for a networked audio conferencing system utilizing Bluetooth call bridging with Attero Tech's call bridging enabled networked audio products.



**TSC-50-G3**  
**TSC-70-G3**  
**TSC-101-G3**

**KEY FEATURES**

- High performance network touch screen controllers for Q-SYS
- Enhanced onboard processor with increased resolution and significantly improved screen transitions on all models
- Customizable RGB LED status indicators (7-inch and 10 in models only)
- Integrated proximity sensor wakes the screen on approach while an ambient light sensor adjusts screen brightness
- Build intuitive and scalable UCIs in the same software program as your DSP and control programming for a streamlined design and deployment process
- Supports CSS-based styling letting users build more dynamic UCI themes and apply global styles across multiple UCIs
- UCI Controller (in Beta) is an alternative method of building UCIs from a template of control types to simplify deployment and scalability of multiple UCIs
- Supports Power over Ethernet to allow for power and data on a single cable for simple, single-cable installation
- All models support landscape/portrait orientation when wall-mounted
- Optional table top mount accessory available (5-inch model supports landscape/portrait mounting)
- Universal mounting options: Included accessories for mounting to US standard and European wall and junction boxes
- Available in three sizes (5-inch, 7-inch, 10.1-inch)



**Q-SYS TSC-G3 Series**

Network touch screen controllers for Q-SYS

The Q-SYS TSC Series Gen 3 are high-performance network touch screen controllers native to Q-SYS. Available in three sizes (5-inch, 7-inch, 10-inch), these PoE-capable (power over Ethernet) devices support a wide range of applications needing a fully-customizable user control interface (UCI).

Like all Q-SYS products, the TSC Series Gen 3 integrate seamlessly into a system design and take full advantage of drag-and-drop integration and robust control engine within Q-SYS to provide users with intuitive AV controls for any space.

**The Next Generation of Q-SYS Touch Screens** – The TSC Series Gen 3 network touch screen controllers offer a complete redesign, built for higher performance and modern aesthetics. This series offers increased resolutions with significantly improved screen transitions on all models. Furthermore, the enhanced onboard video processor makes these screens future-ready for upcoming Q-SYS video features.

The 7-inch and 10-inch models also feature RGB LED status indicators on the side of the touchscreen that can be fully customizable to signify anything from call/mute status, room-in-use, and beyond.

Lastly, each model supports vertical and horizontal orientation, and allows for wall-mounting in a single-gang wall box (TSC-50-G3), dual-gang wall box (TSC-70-G3 & TSC-101-G3), or table-top mounting with optional accessory (not included).

**Fully Customizable User Control Interface** – Q-SYS offers a unique drag-and-drop UCI creation utility within Q-SYS Designer Software for building intuitive and scalable interfaces without the need for any programming. Each TSC Series Gen 3 network touchscreen can display anything from a few simple controls on single page GUIs to comprehensive GUI's with reactive controls that change based on system status. It's also simple to import corporate logos and other graphical elements to enable UCIs tailored to each customer's unique requirements.

Additionally, Q-SYS supports CSS-based styling, which allows integrators to build more dynamic UCI themes and apply global styles across multiple UCIs (or system designs). Q-SYS also offers the new UCI Controller feature (in Beta) that make it much simpler to copy, reuse, and modify UCIs to allow for easier deployment and scalability of multiple UCIs.

**Designed for Q-SYS** – TSC Series Gen 3 network touch screen controllers are high-performance devices native to Q-SYS, a cloud-manageable audio, video, and control platform, built to deliver scalable, flexible AV solutions well into the future. At its foundation, the **Q-SYS OS** serves as the software foundation that manages your TSC Series devices along with a multitude of other native **Q-SYS Products**. Additionally, the modern IT architecture and development tools of the Q-SYS Platform enable an entire Ecosystem of third-party devices developed by approved **Q-SYS Partners**, as well as a worldwide community of Q-SYS developers using the available tools found in **Q-SYS Open**.

## Q-SYS TSC-G3 Series

	TSC-50-G3	TSC-70-G3	TSC-101-G3
<b>Display</b>			
Type	Projective capacitive (PCAP) multi-touch technology, high-resolution 24-bit color display		
Panel dimensions (WHD)	5.55 x 3.2 x 1.49 in (141 x 81.3 x 37.8 mm)	7.28 x 4.53 x 1.54 in (185 x 115 x 39.1 mm)	9.97 x 6.24 x 1.54 in (253.2 x 158.5 x 39.1 mm)
Viewable screen dimensions (diagonal)	4.99 in (126.7 mm)	7 in (177.8 mm)	10.07 in (255.8 mm)
Resolution	1280 x 720 px	1280 x 800 px	1920 x 1200 px
Aspect ratio	16:9	16:10	16:10
Contrast ratio	800:1	850:1	800:1
Brightness	450 Nits	400 Nits	380 Nits
Customizable LED status indicators	No	Yes	Yes
Panel orientation	Landscape / portrait	Landscape / portrait	Landscape / portrait
Wall-mountable	Yes (accessories included)	Yes (accessories included)	Yes (accessories included)
Table top	Optional table top stand accessory	Optional table top stand accessory, supports landscape orientation only	Optional table top stand accessory, supports landscape orientation only
<b>Sensors</b>			
Ambient light sensor	Yes	Yes	Yes
Proximity detection (wake on approach)	No	Yes	Yes
<b>I/O</b>			
LAN (1x RJ45)		1 Gbps	
USB 3.1 (1x Type-C)	No	Yes (for future use)	Yes (for future use)
<b>Power</b>			
Power over Ethernet	PoE Class 2	PoE Class 3	PoE+ Class 4
<b>Weight</b>			
Product weight (net)	8.8 oz (249 g)	19.9 oz (564 g)	33.4 oz (947 g)
<b>Environmental</b>			
Operating temperature		0°-50° C (32°-122° F)	
BTUs	18 typical	26 typical	47 typical
Humidity		5-85% rh non-condensing	

\*Specs subject to change without notice

TSC-101-G3



(shown with optional table top stand, available for TSC-70-G3 and TSC-101-G3)

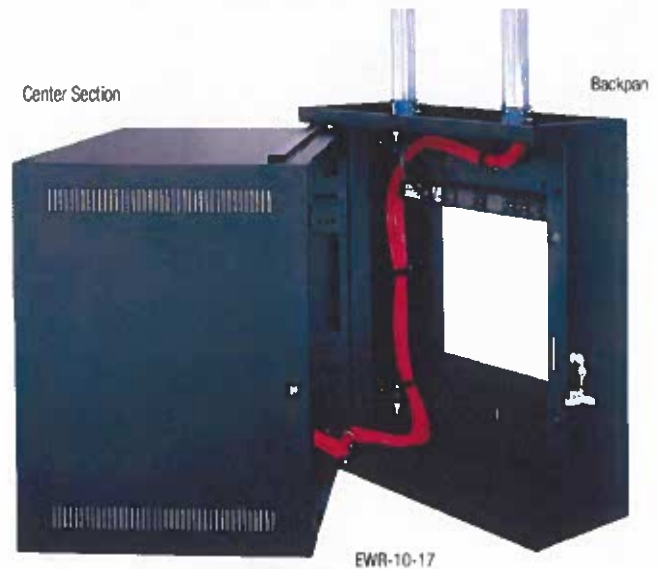
# EWR Series

## wall mount rack

the EWR Series 19" wall mount rack provides unparalleled quality at an aggressive price and is ideal when installing smaller systems in both secured and non-secured areas

### features:

- Available in 17" and 22" depths
- 150 lb. weight capacity
- Tool-Free Quick-Mount™ system allows for easy, one-person mounting of the center section to the backpan on the jobsite
- Rack can be mounted for left or right hand swing
- 1/2", 3/4", 1" & 1-1/2" electrical knockouts and 5/8" UHF/VHF antenna knockouts on top & bottom, easily removable for cable pass-through
- 10-1/2" x 10-1/2" cutout in the backpan for electrical pull-box
- Abundant lacing points throughout the interior facilitate cable management
- Front rail adjustable at 1/8", 5/8" and 1-1/8" increments, option available for full front to rear adjustability
- Durable black textured powder coat finish
- UL Listed in the US and Canada



### specifications:

EIA compliant 19" wall mount rack shall be Middle Atlantic Products model # EWR-\_\_\_-\_\_\_ (refer to chart). Overall dimensions shall be 23.4" W x \_\_\_" H x \_\_\_" D (refer to chart). Weight capacity shall be 150 lbs. Tool-Free Quick-Mount™ system shall enable one-person installation. Center section and backpan shall be 16-gauge steel, phosphate pre-treated and finished in a black textured powder coat. Rackrail shall be constructed of 11-gauge steel with tapped 10-32 mounting holes in universal EIA spacing with black e-coat finish and marked rackspaces. Rack shall be constructed to swing open for component cabling access, center section shall pivot for either left or right opening. Rack shall have 1/2", 3/4", 1" and 1-1/2" electrical knockouts, and BNC knockouts for UHF/VHF antennas in top and bottom. Backpan shall have 10-1/2" x 10-1/2" cutout for cable pass-through. Available with standard solid front door, shall be part # EWR-XX-17/22SD (refer to chart). Rack shall be UL Listed in the US and Canada to the UL-2416(NWIN) Category when used with optional bonding kit, model # PET-K-\_\_\_. EWR Series shall meet all enclosure requirements towards PCI DSS (Payment Card Industry Data Security Standard) Compliance. Rack shall be GREENGUARD Gold Certified. Rack shall be RoHS EU Directive 2011/65/EU compliant. Rack shall be manufactured by an ISO 9001 and ISO 14001 registered company. Rack shall be warranted to be free from defects in material or workmanship under normal use and conditions for the lifetime of the rack.

Customizable specification clips available at [middleatlantic.com](http://middleatlantic.com)



PRODUCT CERTIFIED FOR  
LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### options:

- Front doors - shall be 16-gauge steel, part # FD-XX (solid), EVFD-XX (vented, 22% open area), LVFD-XX (vented, 68% open area-excludes 8 space rack) (PFD-XX (plexi), (XX=# of rackspaces)
- Rear rail kit - 11-gauge, 10-32 threaded, sold in pairs, hardware included, part # DWR-RRXX
- Adjustable rackrail bracket shall be Middle Atlantic Products part # EWR-ARB-XX
- Top dust cover shall be Middle Atlantic Products part # DWR-CVR
- Optional bonding kit for UL-2416 (NWIN) compliance shall be Middle Atlantic Products PET-K-D/EWR (for backpan to center section), PET-K-D/EWRD (for backpan to center section to front door), PET-K-FD (for front door to center section)

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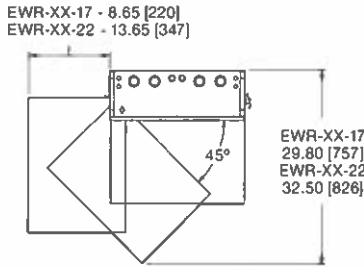
96-01004/ rev 1 / 1-19-17

# EWR Series

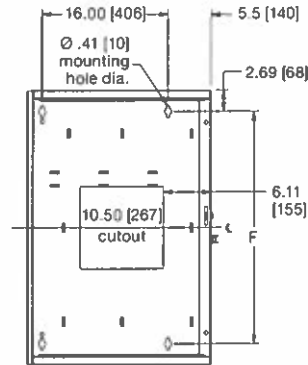
## basic dimensions

all dimensions in inches unless otherwise noted (all dimensions in brackets are in millimeters)

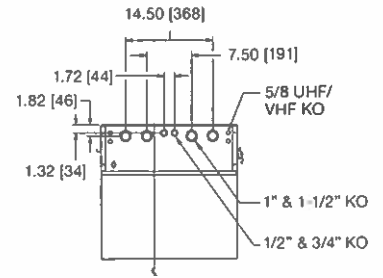
center section clearance



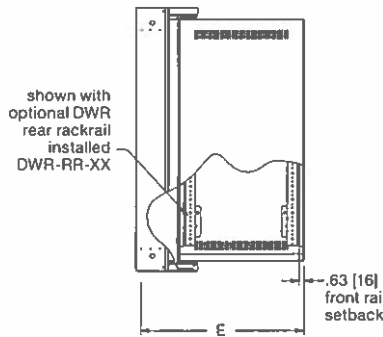
front view backpan



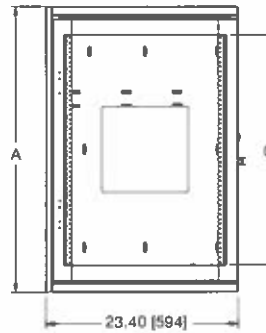
top view  
(knockouts in top view are also located on the bottom)



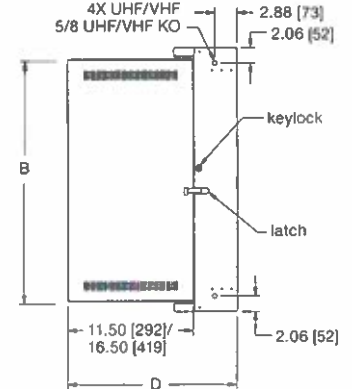
side view



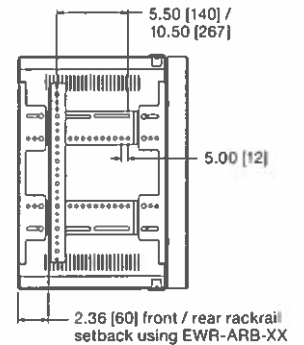
front view center section



side view



side view  
(shown with option EWR-ARB)



Part #	A Overall Height	B Center Section Height	C Racking Height / Rackspace	D Overall Depth	E Useable Depth	F Mounting Hole Spacing
EWR-8-17	21.00 [533]	18.13 [460]	14.00 [356] / 8 spaces	17.30 [439]	15.00 [381]	15.63 [397]
EWR-8-22	21.00 [533]	18.13 [460]	14.00 [356] / 8 spaces	22.30 [559]	20.00 [508]	15.63 [397]
EWR-10-17	24.50 [622]	21.63 [549]	17.50 [445] / 10 spaces	17.30 [439]	15.00 [381]	19.13 [486]
EWR-10-22	24.50 [622]	21.63 [549]	17.50 [445] / 10 spaces	22.30 [559]	20.00 [508]	19.13 [486]
EWR-12-17	28.00 [711]	25.13 [638]	21.00 [533] / 12 spaces	17.30 [439]	15.00 [381]	22.63 [575]
EWR-12-22	28.00 [711]	25.13 [638]	21.00 [533] / 12 spaces	22.30 [559]	20.00 [508]	22.63 [575]
EWR-16-17	35.00 [889]	32.13 [816]	28.00 [711] / 16 spaces	17.30 [439]	15.00 [381]	29.63 [752]
EWR-16-22	35.00 [889]	32.13 [816]	28.00 [711] / 16 spaces	22.30 [559]	20.00 [508]	29.63 [752]

Note: Dimensions for 17" and 22" deep models are given in the form (EWR-XX-17 / EWR-XX-22)

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# CyberPower

## OR700LCDRM1U SMART APP LCD UPS



Cost-effective feature-rich power protection for networking, servers and telecommunications equipment.

A rackmount UPS with line interactive topology, the CyberPower Smart App LCD OR700LCDRM1U provides battery backup (using simulated sine wave output) and surge protection for department servers, workgroup servers, workstations, network devices, and telecom installations without active PFC power supplies. The OR700LCDRM1U uses Automatic Voltage Regulation (AVR) to correct minor power fluctuations without switching to battery power, which extends battery life. AVR is essential in areas where power fluctuations occur frequently. The OR700LCDRM1U comes with a three-year warranty and a \$300,000 Connected Equipment Guarantee.

### TYPICAL APPLICATIONS

- Workstations
- Corporate Servers
- Automatic Voltage Regulation
- Department Servers
- Network Devices
- Telecom Installations

### FEATURES

- Capacity: 700 VA / 400 W
- Topology: Line Interactive
- Waveform: Simulated Sine Wave
- Output: 120 VAC  $\pm$  10%
- Plug type & cord: NEMA 5-15P, 10 ft. cord
- Outlet types: 6  $\times$  NEMA 5-15R
- Communication: USB, Relay, SNMP
- Management software: PowerPanel® Business
- Remote management: Yes, with optional RMCARD205
- Warranty: 3 year

## SPECIFICATIONS

GENERAL		OUTPUT	
UPS Topology	Line Interactive	VA	700
Energy Star Certified	Yes	Watts	400
Energy Saving	GreenPower UPS™ Bypass	On Battery Voltage	120Vac $\pm$ 10%
INPUT		On Battery Frequency	60 Hz $\pm$ 1%
Nominal Input Voltage	120Vac	On Battery Waveform	Simulated Sine Wave
Input Voltage Range	90-140Vac	Outlet Type	NEMA 5-15R
Adjustable Voltage Range	88-144Vac	Outlets - Total	6
Frequency Range	57-63Hz	Outlets - Battery & Surge Protected	4
Plug Type	NEMA 5-15P	Outlets - Surge-Only Protected	2
Plug Style	Straight	Automatic Voltage Regulation	Yes
Cord Length (ft)	10 ft	Transfer Time	Typical 8ms
		Overload Protection	Internal Circuitry Limiting, Circuit Breaker

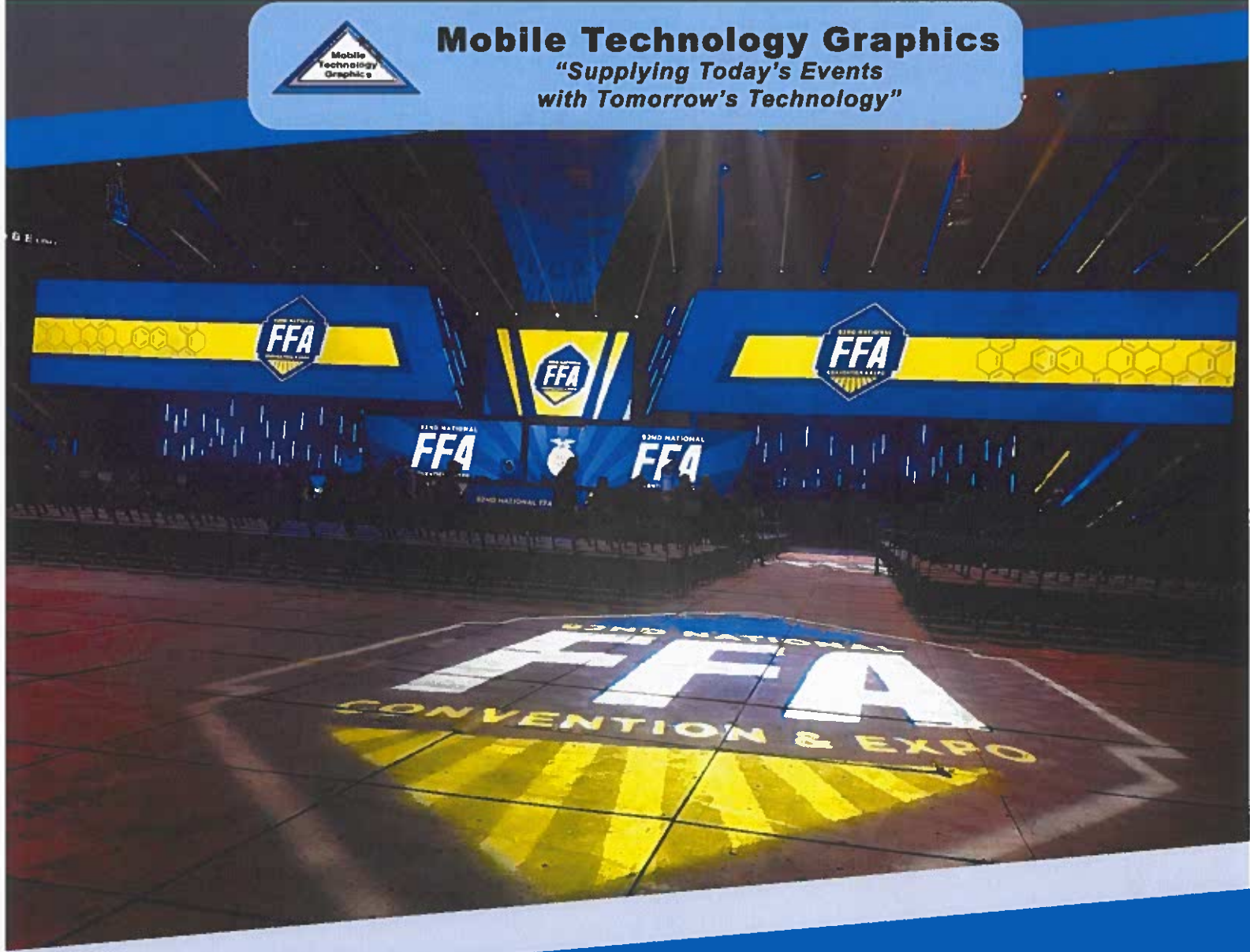
# OR700LCDRM1U SMART APP LCD UPS

## SPECIFICATIONS - CONT.

BATTERY		PHYSICAL	
Battery Type	Sealed Lead-Acid	Rack Height	1U
Battery Quantity	2	Form Factor	Rackmount
Battery Size	6V/8Ah	<b>ENVIRONMENTAL</b>	
Runtime at Half Load (min)	11	Physical Dimensions - (WxHxD) (in)	17.05 x 1.75 x 9.25
Runtime at Full Load (min)	3	Weight (lb)	18.5
User Replaceable	Yes	Physical Dimensions - (WxHxD) (mm)	433 x 44 x 235
Replacement Battery Cartridge	RB0690X2	Weight (kg)	8.39
Replacement Battery Cartridge Quantity	1	<b>ENVIRONMENTAL (CONT.)</b>	
Hot Swappable	Yes	Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)
Typical Recharge Time	8 Hours	Operating Elevation	0-10,000 ft (0-3,000 m)
<b>INPUTS</b>		Operating Relative Humidity	0-95% (non-condensing)
Network Protection RJ45	1-in, 1-Out (10/100/1000)	Storage Temperature	5 °F to 113 °F (-15 °C to 45 °C)
EMI/RFI Filtration	Yes	Storage Elevation	0-50,000 ft (0-15,000 m)
Surge Suppression (Joules)	1150	Storage Relative Humidity	0-95% (non-condensing)
<b>OUTPUTS</b>		<b>REGULATED OUTPUTS</b>	
Multifunction LCD Panel	Yes	Efficiency	92%
Audible Alarms	On Battery, Low Battery, Overload, Fault	Environmental	RoHS Compliant
Dry Contact Port	Yes	Safety	UL1778, cUL107.1, FCC Class B
HID Compliant USB Port	Yes	<b>REGULATED OUTPUTS (CONT.)</b>	
Management Cable	USB Cable	CEG Amount	\$300,000
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD205	Product Warranty	3 Years Limited
Software	PowerPanel' Business	Connected Equipment Guarantee	Lifetime



**Mobile Technology Graphics**  
*"Supplying Today's Events  
with Tomorrow's Technology"*



# Saucon Valley SD Stadium Installation Video Board Proposal

Mobile Technology Graphics

Submitted by  
Mike Estojak

Delivered on

Client  
Lobar Associates

Contact  
Jeremiah Pease-Myers

# Overview

Dear Jeremiah,

At Mobile Technology Graphics (MTG), we specialize in both indoor & outdoor LED Displays! MTG is a family owned and operated company that services the entire United States from events in Pasadena, California to Key West, Florida to Bangor, Maine. MTG focuses on providing the highest quality LED panels at a fair price. Every panel is quality controlled checked when it returns to our warehouse and if necessary pixels are repaired. MTG has invested in automated pixel replacement machines along with dedicated repair techs to fix panels in house to ensure highest quality standards are met.

No one project is too large or out of the box for our team to tackle. All of our rental displays are built using the highest quality LED components built to our specifications.

MTG has built numerous custom supports and frames for events that off the shelf supports would not work for.



Thank you for your interest in Mobile Technology Graphics and our products and if there are any questions about this proposal or any of our products/services, please do not hesitate to contact us!

Sincerely,

**Mike Estojak**

**President**

, Mobile Technology Graphics

# MTG's Experience

## About

Mobile Technology Graphics is a family owned and operated LED Display company that services the entire continental United States. This allows our upmost attention to high quality displays and fair pricing.

Started in 2005 as a solution to a marketing problem - how do businesses directly target their most potential customers driving right in front of their business? With a adaptation of solar powered LED traffic message centers from amber to red LEDs along with adding a 2nd side to the display and true 100% remote communication to the message center to change messages, MTG was able to offer businesses a way to target customers directly passing their business with a digital LED sign that was temporary while also looking professional and not like a construction site. MTG quickly amassed the nation's largest fleet of solar powered message centers specifically built for marketing purposes.



## Outdoor Jumbotrons



By 2010, MTG designed and built its first mobile 9x16ft 16:9 aspect ratio jumbotron featuring a 12mm pixel spacing and a 16:9 aspect ratio. A majority of other mobile jumbotrons on the market at the time were using a 20mm pixel spacing and a 4:3 aspect ratio in the size of 9x12ft.

Within 2 years, MTG built its first 11x17ft mobile jumbotron with a 10mm

display on it again pushing the mobile jumbotron to larger screen sizes. In 2016 MTG debuted its patented and market leader 15ft x 25ft "open air" LED display trailer. This 15x25ft trailer featured an

unheard of a true 4mm pixel spacing display, setup time within 15 minutes, an integrated sound system, an onboard generators and an open deck design for clean aesthetics at events. This quickly became the sought after LED display trailer now being used by the US Government, numerous universities, Corporate organizations and sporting teams for their special events. In 2021, MTG debuted an open air 8x15ft display that features a setup time of less than 5 minutes, onboard generator, and one of the small footprint trailers on the market.



## Modular LED Video Walls

In 2013, MTG invested in a large order of 4mm indoor LED display rental panels as we saw

the need for an indoor solution that comprised of high quality display but also at a reasonable price. Numerous corporate events and video gaming tournaments latter, in

2017 MTG invested in 2.5mm LED display panels as we foresee the need for higher resolutions displays for corporate events and now MTG has over 2,000 2.5mm indoor panels with similar batch lots.



In 2019, MTG added 4.8mm outdoor LED modular panels and in 2022 MTG added a large batch of Outdoor 3.9mm black LED touring style panels to our inventory to be a complete LED service provider for all types of events that can also be utilized indoors as the panels offer high contrast ratio and refresh rates. These new panels assembly quickly, are lighter and all the modules and power supplies are 100% field replaceable without the need for screws ensuring the highest uptime possible.

## Who MTG Works With

You most likely saw some of our work before, but here's some of our Clients:

- US Government (NASA, National Park Service, Army, Marines, Office of the President)
- Corporations for trade show booths, special events, employee meetings (Some of the top tech, healthcare apparel, banking, pharmaceutical, skin care and automotive companies)
- Educations - Colleges, Universities, K-12 Schools
- Sporting Events (Professional Teams, College Football Bowl Games)
- Music Festivals
- Video Gaming Tournaments
- Community Festivals
- Presidential & Political Campaigns



Bank



Creative data technology

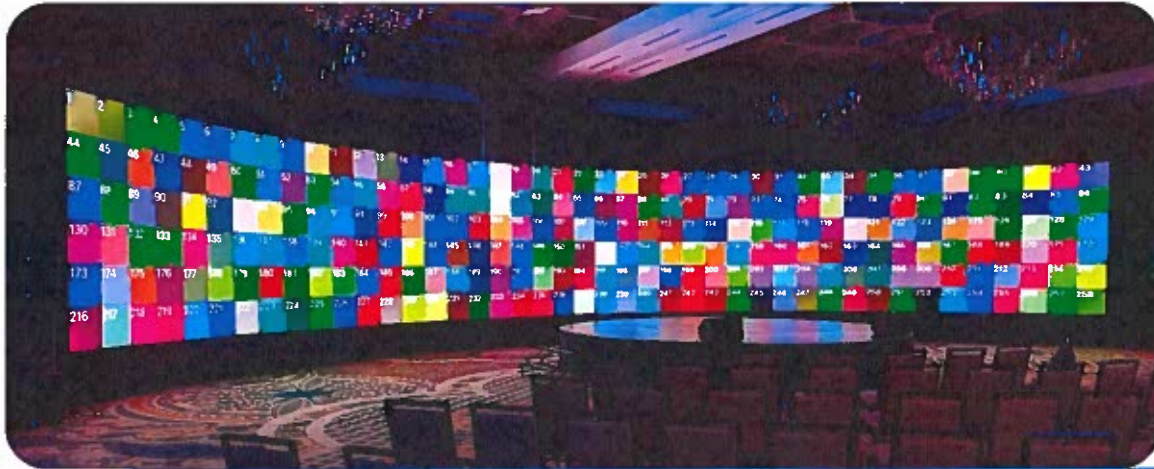


mastercard.



# Our Work

Below, please find some of our previous events that are similar to your upcoming event.



# Installation

## Information Client:

Saucon Valley School District

Project: Stadium Video Board Installation. Timeline: Spring 2024

### Overview:

MTG is proposing a 18ft tall x 32ft wide full color 5mm pixel spacing video board. The 5mm spacing means the pixels are spaced every 5mm apart creating a super high definition image. The higher the spacing spacing, ie. 10mm, the further the pixels are spaced apart and the lower the resolution of the video board.

The system we propose is utilized by numerous permeant installations we have done including Lehigh University and ArtsQuest SteelStacks/Levitt Pavillon locally. The 5mm installation cabinets we propose we have had installed for nearly 3 years now at ArtsQuest SteelStacks Levitt pavilion which have been running the stage display 24 hours a day, 365 days a year and not a single module has been replaced in that time period. The display is facing due south and in direct sunlight can still be visible.

For the control system, it is a two part system. The LED processor is part one and that takes any input and scales it to the video board size and sends it to the video board. The LED processor can accept HDMI, DVI and SDI inputs. This means that virtually any signal can be sent to the video board without the scoreboard computer being activated. The control system (video processor and the hardware cards on the LED wall itself) is based on the industry leading control system called NovaStar. This means any repairs needed to the video board or control system can easily be performed by virtually anybody in the LED video board industry and replacement parts are easily to get.

The second part of the system is the scoreboard computer system. This platform is utilizing an Apple MacStudio and a software package called ProPresenter Scoreboard from RenewedVision (<https://renewedvision.com/propresenter-scoreboard/>). This software is used by numerous colleges and high schools across the country to control their stadium video boards to display scoreboard graphics for numerous different types of sports. It also has a built-in ad manager that allows ads to be displayed during the game. Custom scoreboard skins can be designed and built within the software to allow for custom branding of the video board. The software also allows live video input around the custom skin, so a live video feed can be fed to the video board on-top of the scoreboard skin. ProPresenter Scoreboard does have a remote option for the control of the scoreboard portion to allow remote entry of the clock, period, scores via a web interface that can be accessed through an iPad. ProPresenter Scoreboard can also take a data feed from a third party controller such as Daktronics, OES, and Fairplay. This allows game operators to use a hardware controller to start/stop the clock, score and periods and ProPresenter Scoreboard will decode the data output from the controller and use it to display on the videoboard. This is the same software Lehigh University uses for their soccer stadium and they utilize their old Daktronics controller to run the clock, score and periods. . Client can provide their own Apple MacStudio and iPad to control the system as well.

### **Project Installation Overview:**

The LED processor Macstudio would live in a climate controlled rack enclosure. This would protect the Studio and the LED processor from drastic temperature changes and moisture while also protecting the two devices from vandalism/theft.

An external monitor, mouse and keyboard would be located in the press box to allow operation of the scoreboard software from the press box without having to open the rack. An iPad would be given so that the scoreboard operator can control the scoreboard in a simplified user interface while another user can be triggering ads or video playback cues on the Mac Studio.

An 8x channel singlemode fiber link would link the LED processor to the video board. (2x channels for primary data, 2x channels for backup data, 4x channels as spare/future use)

### **System Warranty:**

The LED video board would have a limited 5 year parts warranty and 2 year onsite labor warranty. Yearly maintenance plans are available as well for purchase after the initial 2 year labor warranty. All warranty repair work of the LED repair modules will be performed by our trained repair technicians located in our warehouse in Hellertown, Pennsylvania for fast turn around. Our repair technicians repair our own in house rental displays, and we do this process instead of sending back to the factory because it allows for faster repair times and higher quality repairs. Included with every video board purchase is a spare parts package which includes LED modules, power supplies, cables, hub and receiving cards that will be stored onsite. All parts can be simply replaced utilizing a #2 Philips screwdriver and are easily accessible. MTG also purchases additional spare LED modules that we store in our warehouse that are color matched to the purchased video board incase client's spare parts goes missing or excessive physical damage occurs to the board, these additional spare modules will be provided at cost to the client then

The AppleMac Studio will be warrantied directly through Apple and is subject to their warranty terms. The ProPresenter Scoreboard software will be warrantied through RenewedVision directly and is subject to their warranty terms. MTG will assist in any issues that occur with the Apple/ProPresenter Scoreboard software.

ProPresenter Scoreboard software is a perpetuity license, and they do issue free updates to the software package normally on a yearly basis. ProPresenter Scoreboard customer support is responsive and most ticket items submitted are responded to the same day. MTG is well versed in the system and will be the local POC for questions.

What is not covered under LED warranty:

Physical damage to the LED modules by either animals, object (balls hard object impacting the videoboard, etc), vandalism, acts of God (lightning, tornados, etc). and reconfiguration of the videoboard/ programming software adjustments made to the video board firmware post installation.

## Video Scoreboard

Description	Price	Qty	Subtotal
<b>Mobile Technology Graphics is an approved Pennsylvania CoStars Vendor.</b> <b>PA CoStars Contract Number: 032-E24-083</b>			
<input checked="" type="checkbox"/> <b>5mm Outdoor Install Video board 18.04ft tall x 32.8 wide.</b> Physical Pixel resolution: 1092 pixels tall x 1512 pixels wide Pixel Spacing: 5mm Brightness: 7,500 nitts Service type: Front or Rear service Cabinet Size: 1m x 1m or .5m x 1m. Warranty 5 year limited parts (2 year labor). Includes spare LED modules, power supplies, recieving cards to be stored onsite.. Includes all shipping..	\$240,205.18	1	\$240,205.18 \$180,153.89 Discount - Community (%) -25
<input type="checkbox"/> <b>7mm Outdoor Install Video board 18.04ft tall x 32.8 wide.</b> Physical Pixel resolution: pixels tall x pixels wide Pixel Spacing: 7mm Brightness: 8,000 nitts Service type: Front or Rear service Cabinet Size: 1m x 1m or .5m x 1m. Warranty 5 year limited parts (2 year labor). Includes spare LED modules, power supplies, recieving cards to be stored onsite.. Includes all shipping..	\$216,490.45	1	\$216,490.45 \$162,367.84 Discount- Community (%) -25
<input type="checkbox"/> <b>10mm Outdoor Install Video board 18.04ft tall x 32.8 wide.</b> Physical Pixel resolution: pixels tall x pixels wide Pixel Spacing: 10mm Brightness: 8,000 nitts Service type: Front or Rear service Cabinet Size: 1m x 1m or .5m x 1m. Warranty 5 year limited parts (2 year labor). Includes spare LED modules, power supplies, recieving cards to be stored onsite.. Includes all shipping..	\$196,093.55	1	\$196,093.55 \$147,070.16 Discount- Community (%) -25

Description	Price	Qty	Subtotal
<b>HD All-In-One NovaStar LED Processor &amp; Scaler w/ NovaStar fiber converters</b> HDMI Input, SDI input, DVI input. Includes IP65 Outdoor rated single mode fiber converter to be placed on board side & backup/spare processor.	\$6,552	1	\$6,552
<input type="checkbox"/> <b>500ft 8x channel single mode fiber cable</b> Does not include buried conduit.	\$950	1	\$950
<input checked="" type="checkbox"/> <b>Apple Mac studio w/ 20 inch monitor</b> Apple Macbook Pro w/ 20 inch monitor & keyboard and mouse - KVM extender	\$3,450	1	\$3,450
<input checked="" type="checkbox"/> <b>ProPresenter Scoreboard Software One Time License Purchase</b> ProPresenter Scoreboard by Renewed Vision software license <b>one time software license with client owning license for perpetuity.</b>	\$4,300	1	\$4,300
<input checked="" type="checkbox"/> <b>iPad Mini w/ Otterbox Defender Case</b> iPad mini to be used as remote control surface for scoreboard	\$625	1	\$625
<input checked="" type="checkbox"/> <b>Wireless Router Access Point</b> Allows remote control access of mac studio via ipad. Scoreboard Control can be done anywhere in stadium then.	\$288	1	\$288
<input checked="" type="checkbox"/> <b>Outdoor Weatherproof Climate controlled Rack Enclosure</b> Optional - Since client does not have weather proof press box, processor and laptop can live in weather proof, tempature controlled rack enclosure. Remote control scoreboard via iPad mini.	\$2,700	1	\$2,700
<input checked="" type="checkbox"/> <b>Standard Video Board Graphics Package</b> Includes standard fan prompts customized with school logo and color scheme.	\$750	1	\$750

Description	Price	Qty	Subtotal
<b>Installation of video board</b> Includes installation of video board onto client provided structure and programming of video board. Does not include engineering, permits, electrical, or any structural changes that need to be made to existing structure. Prevailing wage rates.	\$4,350	1	\$4,350
<input checked="" type="checkbox"/> <b>lift rental for installation of video board estimate - 1 week rental</b> 1x 60ft straight boom lift rental 1x 55ft rough terrain scissor lift rental actual cost to be given at installation. Client can provide.	\$3,250	1	\$3,250
<b>Pricing does not include engineering, steel structure, sitework, removal of existing board, electrical/fiber work. All fiber should be pre-terminated at scoreboard side along with building side in patch panel enclosure.</b>			
<b>50% deposit required, 50% Due upon installation. Current lead time on production and installation is approximately 8-14 weeks. Exact timelines to be confirmed at order placement.</b>			
<b>TOTAL (EXCLUDING APPLICABLE TAXES)</b>			<b>\$206,418.89</b>
<b>TOTAL SAVINGS</b>			<b>\$60,051.29</b>

## SCOREBOARD SOUND SYSTEM

Permanent audio system installation for Stadium to accompany scoreboard.

Same sound system as we have on our mobile trailers and same speakers that Lehigh University has installed inside Goodman Stadium football Field.

Touchscreen panel would be mounted in press box and is optional as system can be controlled via iPad. Audio equipment would be mounted in the same rack as the scoreboard equipment.

Speakers to be mounted atop press box for optimal coverage.

Speakers to be mounted atop press box for optimal coverage.

✓			
Description	Price	Qty	Subtotal
<b>SCOREBOARD SOUND SYSTEM</b>			
<input checked="" type="checkbox"/> <b>EAW QX394-WP High output 90° x 45° Speaker</b> Weatherproof Version. Includes installation brackets. Full Specs: <a href="https://eaw.com/products/qx394/">https://eaw.com/products/qx394/</a>	\$6,433.81	2	\$12,867.62
<input checked="" type="checkbox"/> <b>EAW UX4403 Multipurpose Installation Amplifier</b>	\$2,571.88	1	\$2,571.88
<input checked="" type="checkbox"/> <b>QSC Core 8 Flex eight Flex channels, USB, Dante</b>	\$3,036	1	\$3,036
<input checked="" type="checkbox"/> <b>5 inch QSC Touchscreen Controller Q-SYS 5</b>	\$1,449	1	\$1,449
<input checked="" type="checkbox"/> <b>Shure QLXD Half-Rack, Single Channel Receiver</b> One for Body pack, one for handheld wireless	\$750.72	2	\$1,501.44
<input checked="" type="checkbox"/> <b>Shure Body Pack pack for Referee</b>	\$589.95	1	\$589.95
<input checked="" type="checkbox"/> <b>Shure QLXD Handheld Transmitter with SM86 Microphone</b> Recommend a 2nd handheld to be used for non-sports games (use ref's receiver).	\$497.95	2	\$995.90
<input checked="" type="checkbox"/> <b>Shure Paddle Directional Antenna. Includes 2x Paddles, 2x antenna extensions</b>	\$1,483.50	1	\$1,483.50
<input checked="" type="checkbox"/> <b>System Programming</b> Includes progaming QSYS & Amplifiers	\$1,285	1	\$1,285
<input checked="" type="checkbox"/> <b>Freight of speakers</b>	\$250	1	\$250

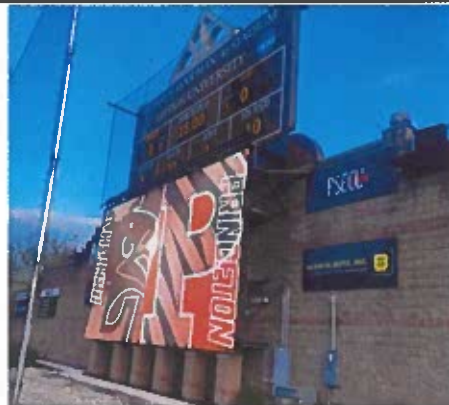
Description	Price	Qty	Subtotal
<input checked="" type="checkbox"/> Installation of Speakers and Components onsite. prevailing wage rates	\$2,540	1	\$2,540
<b>TOTAL</b>			<b>\$28,570.29</b>



# Mobile Technology Graphics

**“Supplying Today’s Events with Tomorrow’s Technology”**

MTG VM Outdoor Installation Panel	
Pixel Pitch	5mm, 7mm, 10mm
Cabinet Size	Full Cabinet: 1m x 1m x 85.15mm (39.37in x 39.37in x 3.34 in) Quarter Cabinet: 500mm x500mmx85mm (19.65in x 19.65in x 3.34in)
Cabinet Weight	Full Cabinet: 42.9pounds Quarter cabinet: 14.3 pounds
Cabinet connections	Temporary: Quick Locks - Permanent: Bolted
Cabinet Resolution (Full Cabinet: 1m x 1m)	5mm: 168 pixels x 168 pixels 7mm: 128 pixels x 128 pixels 10mm: 96 pixels x 96 pixels
Brightness	5mm: 7,500 nits 7mm & 10mm: 8000 nitts
Max Power Spec	5mm: 660 watt/ sqm 7mm & 10mm: 540 watt/sqm
Refresh Rate	3840 hertz
IP Rating	IP 65
Warranty	5 year parts / 2 year onsite labor

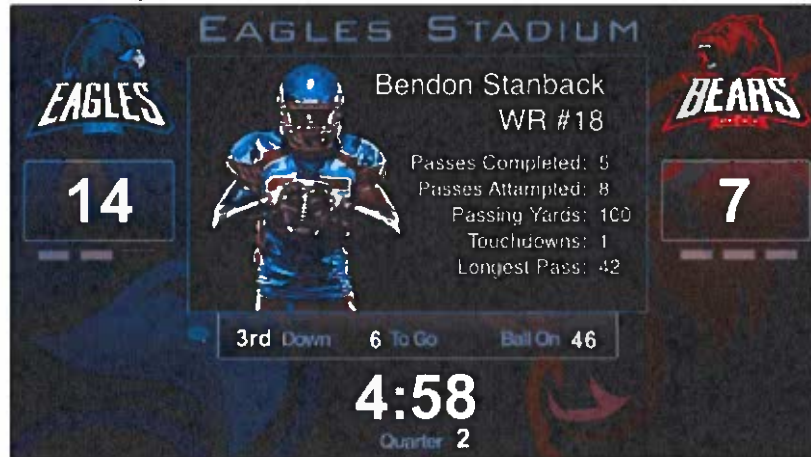


**Lehigh University Goodman Stadium**

**[www.mtgDisplays.com](http://www.mtgDisplays.com) [mtg@mtgdisplays.com](mailto:mtg@mtgdisplays.com) 877-392-4220**

# Sample ProPresenter Scoreboard Graphical User Interface and Videoboard Layouts:

Sample Video Board Output:



Scoreboard Layout Editor: Unlimited Zones and Configurations possible:



User Interface with Graphics triggering and ad inserts:



QUOTE VALID FOR 30 DAYS. Equipment is subject to availability based on the time of deposit received.

**This proposal outlines products and services offered in this proposal by**

**Mobile Technology Graphics in the total of \$234,989.18**

Additional Comments/Notes by Lobar Associates :

Additional comments/notes can be entered here



SIGNATURE

Jeremiah Pease-Myers

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Jeremiah Pease-Myers,  
Lobar Associates

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Mike Estojak, Mobile Technology Graphics







**Scope of Work**

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**To:** Jim Deegan  
KPN - Saucon Valley School District  
No Address Input  
  
6108387001

**From:** Michael Benson  
S.J. Thomas Company, Inc.  
140 Bartram Ave.  
Lansdowne, PA 19014  
(610) 622-3720

**Job Order No:** 114757.00.01  
**Job Order Title:** Saucon Valley SD High School Various Updates Supplemental

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The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this scope of work.

Caulking/ Sealing necessary for windows and panel installation sealing on the exterior of the school.

-----  
----- Exclusions: Testing, permits, inspections, fees  
Subject to the terms and conditions of JOC Contract 2021JOCC-46.

\_\_\_\_\_  
Jim Deegan, Requestor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael Benson, Project Manager

\_\_\_\_\_  
Date

## Contractor's Cost Proposal - Summary (L/E/M)

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Date: March 07, 2024

Re: IQC Master Contract #: 2021JOCC-46  
JOC Work Order #: 114757.00.01  
Owner PO #:  
Title: Saucon Valley SD High School Various Updates Supplemental  
Contractor: S.J. Thomas Company, Inc.  
Proposal Value: \$181,120.41

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<b>Bond</b>	<b>\$3,551.00</b>
<b>Courtyard</b>	<b>\$19,312.64</b>
<b>Library</b>	<b>\$13,888.82</b>
<b>Perimeter</b>	<b>\$131,909.82</b>
<b>Pool/ Gym</b>	<b>\$12,458.13</b>
<b>Proposal Total</b>	<b>\$181,120.41</b>

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This Proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percentage of NPP on this Proposal: %

# Contractor's Cost Proposal - Detail (L/E/M)

Date: March 07, 2024

Re: IQC Master Contract #: 2021JOCC-46  
 JOC Work Order #: 114757.00.01  
 Owner PO #:  
 Title: Saucon Valley SD High School Various Updates Supplemental  
 Contractor: S.J. Thomas Company, Inc.  
 Proposal Value: \$181,120.41

Sect.	Item	Mod.	UOM	Description	Line Total						
Labor	Equip.	Material	(Excludes)								
<b>Bond</b>											
1	01	22	16	00 0002	EA	Reimbursable Fees Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.					\$3,551.00
					Installation	Quantity	Unit Price	Factor	=	Total	
						3,551.00	x	1.00	x	1.0000	3,551.00
					Bond						
<b>Subtotal for Bond</b>											<b>\$3,551.00</b>
<b>Courtyard</b>											
2	07	92	13	00 0011	CLF	1/2" x 3/4" Joint, Silicone Sealant And Caulking					\$19,312.64
					Installation	Quantity	Unit Price	Factor	=	Total	
						20.00	x	653.97	x	1.2700	16,610.84
					Demolition	20.00	x	106.37	x	1.2700	2,701.80
					caulking sealant for Omegalite, break metal, and sill flashing panel install						
<b>Subtotal for Courtyard</b>											<b>\$19,312.64</b>
<b>Library</b>											
3	07	01	50	81 0018	LF	Mastic Sealer, 1/4" Bead At Joint					\$2,301.24
					Installation	Quantity	Unit Price	Factor	=	Total	
						300.00	x	4.23	x	1.2700	1,611.63
					Demolition	300.00	x	1.81	x	1.2700	689.61
					Seal metal roof edge						
4	07	92	13	00 0011	CLF	1/2" x 3/4" Joint, Silicone Sealant And Caulking					\$11,587.58
					Installation	Quantity	Unit Price	Factor	=	Total	
						12.00	x	653.97	x	1.2700	9,966.50
					Demolition	12.00	x	106.37	x	1.2700	1,621.08
					caulking sealant for Omegalite, break metal, and sill flashing panel install						
<b>Subtotal for Library</b>											<b>\$13,888.82</b>
<b>Perimeter</b>											
5	05	12	23	00 0518	LF	C2 x 1.78 - 2" Wide Channel					\$17,094.20
					Installation	Quantity	Unit Price	Factor	=	Total	
						1,000.00	x	8.84	x	1.2700	11,226.80
					Demolition	1,000.00	x	4.62	x	1.2700	5,867.40
					Used as 'H' channel						
6	05	12	23	00 0518	0030	MOD For Aluminum, Add					\$609.60
					Installation	Quantity	Unit Price	Factor	=	Total	
						1,000.00	x	0.48	x	1.2700	609.60

**Contractor's Cost Proposal - Detail (L/E/M) Continues..**

**Job Order No:** 114757.00.01  
**Job Order Title:** Saucon Valley SD High School Various Updates Supplemental

**Perimeter**

7	07 01 50 81 0018	LF	Mastic Sealer, 1/4" Bead At Joint				\$17,642.84
			Quantity	Unit Price	Factor	Total	
		Installation	2,300.00 x	4.23 x	1.2700 =	12,355.83	
		Demolition	2,300.00 x	1.81 x	1.2700 =	5,287.01	
		Seal metal roof edge					
8	07 92 13 00 0011	CLF	1/2" x 3/4" Joint, Silicone Sealant And Caulking				\$96,563.18
			Quantity	Unit Price	Factor	Total	
		Installation	100.00 x	653.97 x	1.2700 =	83,054.19	
		Demolition	100.00 x	106.37 x	1.2700 =	13,508.99	
		caulking sealant for Omegalite, break metal, and sill flashing panel install					

**Subtotal for Perimeter** **\$131,909.82**

**Pool/ Gym**

9	07 92 13 00 0011	CLF	1/2" x 3/4" Joint, Silicone Sealant And Caulking				\$12,458.13
			Quantity	Unit Price	Factor	Total	
		Installation	15.00 x	653.97 x	1.2700 =	12,458.13	
		caulking sealant for Omegalite, break metal, and sill flashing panel install					

**Subtotal for Pool/ Gym** **\$12,458.13**

**Proposal Total** **\$181,120.41**

This Proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

**The Percentage of NPP on this Proposal:** %