



District Administration
Office
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www.marshalltown.k12.ia.us

**MARSHALLTOWN COMMUNITY SCHOOL DISTRICT
Request for Proposal
Aquatic Display and Scoring Equipment**

Proposals are due at 8:00 a.m. CST on May 13, 2022. Documentation for all options must be included with the proposal in order for the proposal to be considered.

Please email your quotation to the below email address. DO NOT SEND YOUR QUOTE DIRECTLY TO A DISTRICT EMPLOYEE'S EMAIL.

sealedbid@marshalltown.k12.ia.us

All proposals should contain the subject line “Aquatic Display.” Late proposals will not be accepted. Faxed proposals will not be accepted.

Contingent award of Proposal for Aquatic Display Equipment will be made by the Superintendent of the MARSHALLTOWN COMMUNITY SCHOOL DISTRICT.

Questions regarding the proposal process should be directed to the Director of Technology. Value added resellers must base their proposal on the specifications listed and may explain pricing in their proposal document.

Contact Information:

Amy Harmsen – Director of Technology
MARSHALLTOWN COMMUNITY SCHOOL DISTRICT – Central Office
1002 South 3rd Avenue
Marshalltown, Iowa 50158
aharmsen@marshalltown.k12.ia.us
(641)754-1000 Ext. 7353

District Profile:

MARSHALLTOWN COMMUNITY SCHOOL DISTRICT (MCSD), includes six elementary buildings, one intermediate building, one middle school building, one high school building, one transportation building, one support services/central administration office building. Regular business hours at all locations are considered to be 7:30 a.m. to 4:30 p.m., Monday through Friday, exclusive of holidays observed by the district. There are 5,371 students being served in our District. The District employs approximately 600 regular employees with 379 teachers, 25 administrators, and 200 support personnel.



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MCSO is a tax-exempt entity, therefore the project shall be exempt from Iowa State Sales Tax pursuant to Iowa Code Sections 423.3 (3) and 423.3 (80). The owner will provide additional documentation to the successful bidder subsequent to proposal award.

- MCSO reserves the right to accept or reject all or any parts of any proposal, waive minor technicalities and award the proposal that appears to best serve the interest of the District. Please note any irregularities in your proposal.

Intent/Purpose:

This Request For Proposal has been prepared by MCSO, which is seeking **one** proposal for a swim display and scoring equipment. Please see *Parts List* table for quantities and specifications. Proposals should include all fees including, shipping, licensing, etc.

Bid Requirements

- Competitive pricing.
- All costs must be listed and priced as detailed individual line items.
- Clearly defined documentation of warranty on parts and services provided.
- Tracking information for all shipped hardware must be provided to the Director of Technology immediately upon shipment with a District delivery guaranteed on July 1st, 2022. Any shipping delays or irregularities should be outlined in the proposal.
- Detailed documentation outlining what is covered under warranty.

Vendor Requirements

- Vendors must be an authorized reseller of the products that they propose.
- Vendors must list the certifications that they possess that are relevant to the products or work they propose.
- Vendors may be asked to provide references related to product installation, financial stability, support services and/or understanding of educational computing needs.

Selection Criteria

1. Alternatives, variations and exceptions must be clearly stated.
2. The district reserves the right to consider proposals based on their relative merit, risk and value to our school district.
3. The district reserves the right to negotiate with any vendor. The successful vendors may be asked to participate in negotiations and be asked to make revisions to their proposals based on these negotiations.



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4. The district reserves the right to cancel in part or in full, this RFP if it is in the best interest of our students.
5. This RFP does not commit us to award a contract, to pay any costs incurred in the preparation of a response to this request, or to procure or contract for services or equipment.
6. Where the quantity purchased affects the price per unit, the vendor is to indicate the price break points in relation to the number of units.
7. The vendor's proposal will indicate the product's availability and a delivery timetable.
8. All bids must be itemized and include the per unit and total extended cost of items. Any and all delivery, shipping, and insurance charges must also be listed.
9. In submitting a bid, each vendor represents that they have read and understand these requirements.

Parts List

PART 1 GENERAL

1.1 SECTION INCLUDES

- **A. LED matrix display**

1.2 REFERENCES

- A. Standard for Electric Signs, UL-48, 14 th Edition
- B. Standard for Control Centers for Changing Message Type Signs, UL-1433, 4 th Edition
- C. Standard for CAN/CSA C22.2 No. 207-M89
- D. Federal Communications Commission Regulation Part 15
- E. National Electric Code

1.3 SUBMITTALS

- A. Product data: Submit manufacturer's product illustrations, data and literature that fully describe the displays and accessories proposed for installation.
- B. Shop drawings: Submit mechanical and electrical drawings.
- C. Maintenance data: Submit manufacturer's installation, operation, and maintenance manuals.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Product delivered on site
- B. Display and equipment to be housed in a clean, dry environment

1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install equipment until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for project when occupied for its intended use.
- B. Field Measurements: Coordinate display location and height with the customer. Verify dimensions by field measurements.



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- C. Supply weight and mounting method for owner to verify that building structure can support the display's weight in addition to the auxiliary equipment.

1.6 QUALITY ASSURANCE

- A. For indoor use only
- B. Source Limitations: Obtain each type of electronic display through one source from a single manufacturer.
- C. ETL listed to UL Standards 48 and 1433
- D. ETL listed to CAN/CSA 22.2
- E. CE compliant
- F. FCC compliant
- G. EU EMC Directives 55022/55024/61000 compliant
- H. Installed per NEC

1.7 WARRANTY

- A. Provide 1 year of no cost parts exchange including ground shipping on electronics parts due to manufacturing defects. Depending on the circumstances and at our discretion, Daktronics will exchange or repair and return failed parts.
- B. Provide toll-free service coordination.
- C. Provide technical online and phone support during Daktronics business hours.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Daktronics, Inc., 201 Daktronics Drive, P.O. Box 5128, Brookings, SD 57006-5128
- B. _____
- C. _____

2.2 COMMUNICATION TYPE

- A. Fiber Optic (50/125 μ m multi-mode)

2.3 PRODUCT

- A. LVN displays show live and recorded video clips, real-time scores/stats, animations, graphics, and text messages. Modules feature SMD (3-in-1) LED packages with 5.9mm row and column spacing to provide wider viewing angles and extremely close viewing distances.

2.4 DISPLAY

- A. General information
 - [Cabinet Dimensions: 6.83' (2.08 m) high, 8.47' (2.58 m) wide, 6.0625" (154 mm) deep
 - Matrix size: 336 x 420
 - Weight: 330 lb (150 kg)
 - Power requirements: 3432 W]
- B. Cabinet Paint Color
 - 1. Black



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- C. Construction
 - 1. Aluminum and Steel
 - 2. Service Access: Front
- D. Display Capabilities
 - 1. Color Capacity: 16 bit (281 trillion colors)
 - 2. LED Refresh Rate: 3840 Hz as defined by the number of times per second the LED image is repainted in intensity
 - 3. Display has signal redundancy allowing for signal path both forward and backwards through panels allowing for loss of only 1 panel vs. rows or blocks of multiple panels in case of failure.
- E. Viewing Characteristics
 - 1. Calibrated Intensity: 1400 nits
 - 2. Brightness Control: 256 levels (manual, scheduled or automatic)
 - 3. Suggested Viewing Angle: 140° horizontal and +60°/-80° vertical
- F. Pixel Characteristics
 - 1. Each pixel consists of one RGB 3-in-1 surface-mount device LED.
 - 2. Pixel spacing measurement must be measured from the center points of neighboring physical pixels, rather than neighboring physical and virtual pixels.
- G. LED Module Characteristics
 - 1. Module shall be for indoor use.
 - 2. Module shall have anti-reflective paint or coating applied to display face. Black state across all modules shall exhibit a Delta E color variation of no more than .4.
 - 3. Modules shall have horizontal louvers running between LEDs or pixels.
 - 4. Modules shall be able to be removed and installed from the front of the display.
 - 5. It is not necessary to remove or insert screws in order to remove or install modules.
- H. Video Processing
 - 1. Video Frame Rate: 50/60 frames per second
 - 2. Graphic Frame Rate: 30 frames per second
 - 3. Processing Architecture: 22 bit (distributed)
 - 4. System Architecture: 100% digital
 - 5. Video Enhancement: Color space conversion, adjustable gamma correction, proprietary sharpening technology and enhancement algorithms for optimal picture quality
- I. LED Quality
 - 1. Quality Control: Sorted by intensity and color wavelength
 - 2. LED Lifetime: 100,000 hours of operation as defined by time at which display intensity has decreased to 50 percent of the original intensity
- J. Calibration
 - 1. Pixel-to-pixel and module-to-module optical color calibration must be performed at the



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factory. The manufacturer must also provide easy-to-use calibration software that allows individual modules and pixels to be independently adjusted while in the display.

- 2. If modules should need replacement during the life of the display, the calibration software must match newer modules' brightness levels to older modules' levels to preserve picture quality and maintain a uniform display appearance.
- K. Display Interface
- 1. The full-color video display must be able to interface and display real-time data from the control system without the need for a duplicate or redundant input.

2.5 1 VIDEO INPUT CONTROL SYSTEM

- **A. Equipment Rack**
 - 1. Dimensions: 25.75"; (654 mm) H x 19.25"; (489 mm) W x 26"; (660 mm) D; 14RU
 - 2. A larger rack may be required based on additional optional equipment.
- **B. Media Player**
 - **1. Provide a Digital Media Player (DMP).**
 - 2. Resolution: 1080p 59.94
 - 3. Video Input: HD-SDI or HDMI
 - 4. Video Output: DisplayPort to Daktronics Display Interface
 - 5. Audio Output: balanced 3-pin XLR
 - 6. Ports: USB 2.0 @2, USB 3.0 @4
 - 7. Memory: 16 GB of DDR4 SODIMM
 - 8. Storage: 1 TB SATA solid state drive
 - 9. Networking: 10/100/1000 Ethernet (RJ-45 LAN) @1
 - 10. Dimensions: Half-width 1RU; 1.75"; (44.5 mm) H x 8.75"; (222 mm) W x 12"; (305 mm) D
- **C. Display Interface**
 - 1. Provide a Display Interface (DI).
 - 2. Video Input: DisplayPort from Daktronics DMP
 - 3. Video Output: Daktronics ProLink ® 6 (fiber optic) @4
 - 4. Storage: 32GB mSATA, SLC
 - 5. Networking: 10/100/1000 Ethernet (RJ-45 LAN) @1
 - 6. Dimensions: Half-width 2RU; 3.4"; (86 mm) H x 8.7"; (221 mm) W x 12.5"; (318 mm) D

2.6 CONTROL COMPUTER

- **A. Laptop**
 - 1. Operating System: Windows ® 10 Pro 64
 - 2. Processor: Intel ® Core™ i5
 - 3. Memory: 16 GB RAM
 - 4. Hard Drive: 500 GB
 - 5. Form Factor: Dell Latitude 5510



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- 6. Laptop may be removed from the control location so content can be created and modified elsewhere. When the laptop is reconnected to the rack, updated content is synced in a matter of minutes.

2.7 CONTROL SOFTWARE

- A. Manufacturer must provide a Windows ® 10 based laptop computer with the control software loaded, configured, and ready to control display at startup.
- B. Must be developed by the manufacturer of the Display, Media Player, and Display Interface.
- C. The display's control software must provide simple, user-friendly features for creating, editing, scheduling, running and deleting messages.
- D. Display Software features:
 - 1. Direct control of an infinite number of displays located on a network
 - 2. Simultaneous display and edit capability
 - 3. Content playlists with loop, shuffle, random and next play functionality
 - 4. Thumbnail preview of content clips
 - 5. Onscreen display monitor
 - 6. Unlimited, color-coded buttons with adjustable sizes
 - 7. Multiple operator workspaces
 - 8. Support input devices such as a mouse, keyboard, touch screen, and dual monitor
 - 9. Icon and pull-down menu programming features
 - 10. Help screens
- E. Content Editor Software features:
 - 1. Display of TrueType fonts and other Windows ® compatible character fonts
 - 1. Inline text editing
 - 2. Outlined, Drop shadowed, Bold, Italic, and Underlined text modes
 - 3. Ability to copy and paste text from most Windows applications
 - 4. Import common image and animation formats, including BMP, JPEG and AVI
 - 5. Content preview
 - 6. Content layering
 - 7. Real-time data (RTD) integration allows operators to create messages with information that automatically updates without user intervention. Such data may include scores, game time, player/team statistics, time-of-day, date or temperature.
 - 8. Profanity protection and Spell Check
 - 9. Multiple transition effects for entry, hold and exit

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that mounting surface is ready to receive the display. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings.



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3.2 INSTALLATION

- A. Power conduit, cables and outlet boxes to be provided and installed by the electrical contractor. Signal raceways, conduit and boxes to be provided by the electrical contractor.
- Electrical contractor is responsible for pulling signal wire and terminators between each display and control location. Display vendor to terminate signal wire of controller and conduit to display.
- B. Mount interior displays to wall in location detailed and in accordance with manufacturer's instructions. Unit to be plumb and level.

3.3 INSTALLATION—CONTROL CENTER

- A. Provide boxes, cover plates and jacks as required to meet control specification requirements.
- Control cables to control panels must be concealed.
- B. Test the operation of the display, controller and all control jacks; leave control unit and other loose items with owner's designated representative.
- C. Conduct operator training on the display/controller operation.
- D. Manufacturer must supply all required signal conversion hardware to allow for direct wire control of electronic display.

PART 4 GENERAL

4.1 SECTION INCLUDES

- **A. Single-sided Aquatics LED scoreboard**

4.2 REFERENCES

- A. Standard for Electric Signs, UL-48, 13 th Edition
- B. Standard for Control Centers for Changing Message Type Signs, UL-1433, 1 st Edition
- C. Standard for CAN/CSA C22.2
- D. Federal Communications Commission Regulation Part 15
- E. National Electric Code

4.3 SUBMITTALS

- A. Product data: Submit manufacturer's product illustrations, data and literature that fully describe the pool equipment proposed for installation.
- B. Shop drawings: Submit mechanical and electrical drawings.
- C. Maintenance data: Submit manufacturer's installation operation, and maintenance manual .

4.4 DELIVERY, STORAGE, AND HANDLING

- A. Product delivered on site.
- B. Scoreboard and equipment to be stored in a clean, dry environment.

4.5 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install display equipment until spaces are enclosed and weatherproof, wet work in spaces is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for project when occupied for its intended use.



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- B. Field Measurements: Verify position and elevation of floor inserts and layout for display equipment. Verify dimensions by field measurements.
- C. Verify building structure is capable of supporting the scoreboard's weight in addition to the auxiliary equipment.

4.6 QUALITY ASSURANCE

- A. For indoor/outdoor use
- B. Source Limitations: Obtain each type of pool equipment through one source from a single manufacturer.
- C. ETL listed to UL Standards 48 and 1433.
- D. NEC compliant
- E. FCC compliant
- F. ETLC listed to CAN/CSA 22.2

4.7 WARRANTY/SERVICE PLAN

- A. Provide 1 year of coverage.
- B. Provide an exchange program to supply replacement parts for components that fail during the coverage period. To minimize downtime, the exchange parts will be shipped on the same day the order is received or on the following day. The manufacturer will also enclose an air bill for return of the defective components.
- C. Provide access to a local Authorized Service Company.
- D. Provide a help desk staffed by experience technicians and coordinators who are thoroughly familiar with the scoreboard and available for technical support. This staff must be available at no additional cost to the customer and provide an "on-call" service during weekends.

PART 5 PRODUCTS

5.1 MANUFACTURER

- A. Daktronics, Inc., 201 Daktronics Drive, P.O. Box 5128, Brookings, South Dakota 57006-5128
- B. _____
- C. _____

5.2 PRODUCT

- A. Daktronics SW-2206-13 single-sided scoreboard will be capable to score swimming, diving and water polo. It displays lane, place and time.
- B. This system will contain all components for a single ended timing system and a six-line scoreboard.

5.3 SCOREBOARD

- A. General information
- 1. Dimensions: 8'-2" (2489 mm) high, 9'-0"; (2743 mm) wide, 6"; (152 mm) deep
- 2. Weight: 290 lb. (132 kg)
- 3. Power requirement: 400 watts



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- 4. Color: black
- B. Construction
 - 1. All-aluminum construction.
 - 2. Scoreboard face and perimeter: 0.063' thick
 - 3. Scoreboard back: 0.063" thick
 - 4. Digit faceplates: 0.063" thick
- C. Digits
 - 1. AS AlInGaP LED digits
 - 2. Seven bar segments per digit
 - 3. LED digit technology: PanaView discrete LED digits protrude through the digit faceplates with a 140 degree viewing angle.
 - 4. All digits: 10" (254 mm) high
 - 5. Digits: Red, amber or alternating rows of both colors
- D. Captions
 - 1. All captions: 5" (127 mm) high
 - 2. All captions: White vinyl and are applied directly to changeable panels
- E. Power Cord
 - 1. Cord is 11'; (3353 mm) long
 - 2. Cord plugs into a standard grounded 120 V AC outlet.
- F. Optional Equipment
 - 1. Advertisement/sponsor panels
 - 2. Programmable message displays
 - 3. Upgrade to OmniSport ® 2000 PRO Windows ® -based timing software

5.4 PRODUCT

- A. Daktronics SW-2006-13 single-sided auxiliary module can be used to customize any scoreboard. It displays EVENT to 999 and HEAT to 99.
- B. This system will contain all components for a single ended timing system and a single-line scoreboard.

5.5 SCOREBOARD

- A. General information
 - 1. Dimensions: 14" (356 mm) high by 9'-0" (2743 mm) wide by 6" (152 mm) deep.
 - 2. Weight: 45 lb (20 kg).
 - 3. Power requirement: 200 W.
 - 4. Color: black
- B. Construction
 - 1. All-aluminum construction.
 - 2. Scoreboard face and perimeter: 0.063" thick
 - 3. Scoreboard back: 0.063" thick



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- 4. Digit faceplates: 0.063” thick
- C. Digits
 - 1. Seven bar segments per digit
 - 2. LED digit technology: With LED digits protruding through the digit faceplates.
 - 3. All digits: 10” (254 mm) high
 - 4. Red, amber or alternating rows of red and amber LED digits
- D. Captions
 - 1. All captions: 5” (127 mm) high
 - 2. All captions: White vinyl and are applied directly to changeable panels
- E. Power Cord
 - 1. Cord is 11’ (3353 mm) long
 - 2. Cord plugs into a standard grounded 120 V AC outlet

5.6 AQUATICS SCORING CONSOLE

- A. Aquatics control console will be the OmniSport ® 2000 controller [2000 PRO controller]
- B. Capable of scoring swimming, diving, and water polo and includes pace clock software through the use of keyboard inserts. All necessary software will be supplied for these sports.
- C. Capable of controlling single line or multi line scoreboards, event/heat module, lengths/record time module and score modules.
- D. Console will be capable of timing to either .01 or .001 of a second precision
- E. Console will be configured to time 1-10 lanes, labeled 1-10 or 0-9.
 - 1. Each lane will have 1-3 backup buttons
 - 2. Each lane will be configurable for judging relay exchanges
- F. Console will be capable of timing in normal or reverse lane order.
- G. Console will be capable of timing 25Y, 25M, or 50M courses; with near or near and far end touchpads.
- H. Console will be capable of handling inputs from touchpads, start system, backup buttons and relay take-off sensors.
- I. Console will have a computer expansion port, giving it the ability to upgrade to the
- Daktronics OmniSport ® 2000 PRO Windows ® -based software to provide for additional timing and event management features and synchronized swimming.
- J. Console will have a meet manager port and shall be capable of bi-directional communication with HyTek Ltd. Meet Management and Team Manager systems for downloading of results, event orders, and workouts. Console will have an automated interface to update and automatically display team score information for up to four teams.
- K. Console will have two (2) scoreboard ports
- L. Console will provide real time data output port to matrix scoreboard controller.
- M. Console will have game clock and shot clock external switch inputs



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- N. Console will be capable of labeling up to 500 event numbers, in any order with alpha (A-Z) designator, i.e. 1A to 999Z and round information, i.e. preliminary, semi-final, final or blank.
- O. Console will have the ability to accept a start pulse even when the timer has not been reset.
- P. Console will have revolving memory capacity for up to 50 races, and will store up to 66 splits per lane with near and far end touchpads and backup button times.
 - 1. Stored split times, including turning (far) end splits, will be printed as they occur and stored in electronic memory during a race for later recall.
 - 2. Split times format will be user selectable to provide individual lap splits, cumulative splits or both.
- Q. Console will be capable of configuring page times of results on scoreboard, as well as subtractive and/or cumulative splits.
- R. Printout of relay judging will include both "plus" and "minus" takeoff times for each leg of the relay
- S. Console software will allow automatic ranking or re-ranking in the case of disqualification.
- T. Any corrections generated by the operator (edit or disqualification) will be automatically and clearly identified on the results printout.
- U. Console has a maximum power requirement of 50 watts
- V. Console includes:
 - 1. A rugged anodized aluminum enclosure to house electronics
 - 2. A sealed membrane water-resistant keyboard
 - 3. Three 32-character liquid crystal prompting displays to verify entries and recall information currently displayed
 - 4. Keyboard functions: plus or minus touches, lane on/off, next event, heat +1, heat -1 and disqualification to allow for ease of meet management.
 - 5. Safeguarded reset keystrokes to avoid the timer from being reset accidentally.
 - 6. A built-in, high-resolution, high-speed compact thermal printer.
 - 4. A transformer assembly to plug into a standard grounded 120 V AC outlet
 - 5. A 20' (6096 mm) control cable to connect to the control receptacle junction box
- W. Optional Equipment
 - 1. Carrying case for console
 - 2. 2.4 GHz spread spectrum radio for scoreboard communication

PART 6 EXECUTION

6.1 EXAMINATION

- A. Verify that surfaces which scoreboard will be mounted on are ready to receive work. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings.

6.2 INSTALLATION



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- A. All power and control cables to scoreboards and displays will be concealed in wall in conduit.
- Power to the scoreboards/displays as well as raceways shown on electrical plans by the
- Electrical Contractor. Scoreboard control wiring coiled cable to the bleacher jack location shall be the responsibility of the contractor assigned the scoreboard equipment.
- B. Mount scoreboards and interior displays to wall in location detailed and in accordance with manufacturer’s instructions. Unit to be plumb and level.

6.3 INSTALLATION—CONTROL CENTER

- A. Provide boxes, cover plates and jacks in locations per plans for remote operation of control cables to control panel jacks will be concealed in wall or under floor in conduit.
- B. Test connect control unit to all jacks and check for proper operation of control unit, scoreboard and all features. Leave control unit in carrying case and other loose accessories with owner’s designated representative.
- C. Conduit operator training on the scoreboard/controller operation.

Quantities

PROPOSAL 1		
Item	Description	Quantity
Daktronics Video Display	LED Matrix Display	1
Equipment Rack/Cabinet	Equipment Rack	1
Media Player	Digital Media Player	1
Computer	Control Computer	1
Software	Control Software	1
LED Scoreboard	Single-sided Aquatics LED Scoreboard	1
Scoring Console	OmniSport 2000 Console	1
Warranty	Warranty	
Installation	Installation	



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