

## SECTION 11480

### 9378 LED BASEBALL SCOREBOARD

#### PART 1 GENERAL

- 1.1 SECTION INCLUDES
  - A. Single-sided LED Baseball Outdoor Scoreboard
- 1.2 REFERENCES
  - A. Standards for Electric Signs, UL-48, 13<sup>th</sup> Edition
  - B. Standards for Control Centers for Changing Message Type Signs, UL-1433 1<sup>st</sup> Edition
  - C. Standards for CAN/CSA C22.2
  - D. Federal Communications Commission Regulation Part 15
  - E. National Electric Code
- 1.3 SUBMITTALS
  - A. Product data: Submit manufacture's product illustrations, data and literature that full describe the scoreboards 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. Scoreboard and equipment to be housed in a clean dry environment.
- 1.5 PROJECT CONDITIONS
  - A. Environmental Limitations: Do not install scoring equipment until mounting structure is secure and the concrete has ample time to cure.
  - B. Field Measurements: Coordinate scoreboard location and height with the customer. Verify dimensions by field measurements.
  - C. Verify mounting structure is capable of supporting the scoreboard's weight and wind load in addition to auxiliary equipment.
  - D. Installation may proceed within acceptable weather conditions.
- 1.6 QUALITY ASSURANCE
  - A. For indoor/ outdoor use
  - B. Source Limitations: Obtain each type of scoring equipment and electronic displays though one source.
  - C. Manufactured to UL Standards 48 and 1433.
  - D. NEC compliant
  - E. FCC compliant
- 1.7 WARRANTY/SERVICE PLAN
  - A. Provide 5 years 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 shall be shipped on the same day the order is received or the following day. The manufacturer will include an air bill for the return of the defective components.
  - C. Provide a help desk staffed by experienced technicians and coordinators who are thoroughly familiar the scoreboard and available for technical support. The staff must be available at no extra cost to the customer.

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#### PART 2 PRODUCTS

##### 2.01 MANUFACTURER

- A. Eversan, Inc., 34 Main Street, Whitesboro, NY 13492
- B. \_\_\_\_\_
- C. \_\_\_\_\_

##### 2.02 PRODUCT

- A. Eversan, Inc. Model 9378 single sided LED baseball scoreboard scores HOME and GUEST, RUNS and HITS to 99, ERRORS to 9, INNING to 19, displays BALL, STRIKE, OUT information and indicates which team is at bat.

##### 2.03 SCOREBOARD

- A. General Information
  - 1. Dimensions: 8'-0" (2438mm) high, 16'-0" (4877mm) wide, 0-6" (152mm) deep
  - 2. Weight: 450 lb (204 kg)
  - 3. Power requirement: 180 W Ultra Efficient LED design
  - 4. Color: Specified by Customer
- B. Construction
  - 1. All aluminum construction
  - 2. Scoreboard face, perimeter, and back: .080" thick
  - 3. Digit Faceplates: .063" thick
  - 4. Finish: Powder coat finish with high performance, architectural powder coat with UV protection to reduce color fading, wet paint finish not acceptable
  - 5. Cabinet withstands high-velocity impact from outdoor sports balls without need for protective screens.
- C. Digits
  - 1. AlGaInP Light Emitting Diodes (LEDs)
  - 2. Seven bar segments per digit
  - 3. Outdoor Digit in Motion technology: 5mm oval LED's protrude though metal front for a large 140 degree viewing angle. Digit in Motion™, *italic number*, technology uses an angled digit pattern to create a more natural looking display.
  - 4. All digits: 18" (457mm) high
  - 5. Red or amber LED digits
  - 6. Individual digit panels are fastened with a minimum of four screws for structural soundness and ease of removal. Rivets are not an acceptable fastening method.
- D. Captions
  - 1. HOME and GUEST captions: 12" (305mm) high
  - 2. All other captions 10" (254mm) high
  - 3. Striping 1" (25 mm) wide
  - 4. All captions: white vinyl applied directly to the face. other colors available.
- E. Optional Equipment
  - 1. Imbedded 2.4 GHz spread spectrum 200mW radio for scoreboard control in a dynamic network. Systems that require channel selection by the operator via the control console or through the use of dip switches on the scoreboard or control console are not acceptable, external wireless adapters not acceptable
  - 2. Logo/sponsor panels
  - 3. Vinyl team name caption in place of home caption
  - 4. Team names on changeable plates
  - 5. Programmable Team Name Message Centers
  - 6. Programmable Message Centers

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#### 7. Protective netting

#### 2.04 SCORING CONTROL CONSOLE

- A. Console is the 9370/78 controller
- B. Capable of scoring baseball and softball
- C. Capable of controlling other baseball/ softball model scoreboards
- D. Console has a maximum power requirement of 5 watts
- E. Console includes:
  - 1. A rugged stainless steel enclosure to house electronics
  - 2. Weather resistant push button switches and keypad
  - 3. 20 character two line liquid crystal display to verify entries and recall information currently displayed
  - 4. All-weather waterproof laser function label, console labels will never fade, crack, or peel
  - 5. A 6' (1829mm) power cord to plug into a standard 120VAC outlet
- F. Optional Equipment
  - 1. Carrying case for control console
  - 2. Imbedded 2.4 GHz spread spectrum 200mW radio for scoreboard control in a dynamic network. Systems that require channel selection by the operator via the control console or through the use of dip switches on the scoreboard or control console are not acceptable, external wireless adapters not acceptable
  - 3. 12V Battery pack with charger

#### PART 3 EXECUTION

##### 3.01 EXAMINATION

- A. Verify the mounting structure is ready to receive the scoreboard. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings. Verify concrete has cured adequately according to specifications.

##### 3.02 INSTALLATION

- A. Power conduit, cabling 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 wires between each scoreboard and control console location. Contractor assigned the scoreboard equipment to terminate signal wire of control console and scoreboard.
- B. Mount scoreboards and exterior displays to beams in location detailed and in accordance with manufacturer's instructions. Verify unit to be plumb and level.

##### 3.03 INSTALLATION-CONTROL CONSOLE

- A. Provide boxes; cover plates and connectors as required to meet control specification requirements. Control cables from scoreboard to control console junction box shall be concealed.
- B. Test the operation of the scoreboard, control console and all cables and connections. Leave control console unit in carrying case and other loose items with owner's designated representative.
- C. Verify earth ground does not exceed 15 ohms.

END OF SECTION