

SECTION 11480

9360NT-100 LED FOOTBALL SCOREBOARD

PART 1 GENERAL

- 1.1 SECTION INCLUDES
 - A. Single-sided LED Multi-purpose Outdoor Scoreboard
- 1.2 REFERENCES
 - A. Standards for Electric Signs, UL-48, 13th Edition
 - B. Standards for Control Centers for Changing Message Type Signs, UL-1433 1st 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 concrete has had 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 9360NT-100 single sided LED multi-purpose scoreboard can score football, track, soccer, field hockey, and lacrosse. It scores HOME, GUEST, TO GO, and BALL ON to 99, QTR, and DOWN, a football indicator shows possession, and displays period time to 99:59 and during the last minute of the period, it displays time to 1/10th of a second. Track timing to 1/100th of a second. In addition it includes, 4'H X 3'W optional logo sponsor area.

2.03 SCOREBOARD

- A. General Information
 - 1. Dimensions: 8'-0" (2438mm) high, 18'-0" (5486mm) length, 0-6" (152mm) deep
 - 2. Weight: 470 lb (214kg)
 - 3. Power requirement: 480 W
 - 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. 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 TM, *italic number*, technology uses an angled digit pattern to create a more natural looking display.
 - 4. Clock, Score, Down, To Go, Ball On, and QTR digits: 24" (610mm) high
 - 5. Possession indicator
 - 6. Red or amber LED digits
 - 7. Individual digit panels are fastened with a maximum 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 Sponsor Area
 - 1. 4'H X 3'W optional logo sponsor area.
- F. Optional Equipment
 - 1. Horn
 - 2. 2.4 GHz spread spectrum radio control
 - 3. Logo/sponsor panels
 - 4. Vinyl team name caption in place of home caption
 - 5. Team names on changeable plates

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6. Programmable Team Name Message Centers
7. Programmable Message Centers
8. Protective netting

2.04 SCORING CONTROL CONSOLE

- A. Console is the 9360NT-100 controller
- B. Capable of scoring football, track, soccer, lacrosse, and field hockey without changing keyboard inserts
- C. Console has a maximum power requirement of 5 watts
- D. 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. A 6' (1829mm) power cord to plug into a standard 120VAC outlet
- E. Optional Equipment
 1. Carrying case for control console
 2. 2.4 GHz spread spectrum radio for scoreboard control
 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