

# SPECTRUM SCOREBOARDS

## Product Specifications for Model [5105-A2](#) Basketball and Volleyball Scoreboard

MAY 2011

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES:

- A. Indoor single-sided LED Basketball and Volleyball scoreboard with control center.

#### 1.02 REFERENCES

- A. Standard for Electric Signs, UL-48
- B. Standard for Control Centers for Changing Message Type Signs, UL-1433, 1<sup>st</sup> Edition
- C. Federal Communications Commission Regulation Part 15
- D. National Electric Code

#### 1.03 SUBMITTALS

- A. Product Details: Submit literature for manufacturer scoreboard, control and accessories as specified.
- B. Specification Drawings: Submit face layout, dimensions, electrical wiring diagrams, structural support and mounting.
- C. Resources: Submit manufacturer installation instructions and operation manual.

#### 1.04 PROVISIONS

**\*\* NOTE TO SPECIFIER \*\*** Following conditions shall be reviewed with customer

- A. Shall verify mounting structure is secured and cured.
- B. Shall verify location of scoreboard equipment and structure is prepared for installation, as specified.
- C. Shall verify mounting structure is able to support the scoreboard and accessories weight. Mounting structure is the responsibility of the Architect, unless otherwise specified.
- D. Shall confirm conduit locations, number of conduit run and termination of conduit.

#### 1.05 QUALITY ASSURANCE

- A. For Indoor use only.
- B. Source Limitations: Provide scoreboard and components through one source from a single manufacturer.
- C. Scoreboard designed for indoor use.
- D. Shall be ETL listed for UL Standards 48 and 1433
- E. Shall be FCC compliant
- F. Shall be NEC compliant

## **1.06 WARRANTY AND SERVICE PLAN**

- A. Spectrum Solid State Scoreboards are guaranteed for a period of five (5) years against any defects in materials.
- B. Warranty does not cover unauthorized repairs or modifications, abuse, neglect, acts of God, exceptionally high or low voltage, and/or improper grounding, installation, operation or shipment to the factory.

## **PART 2 PRODUCT:**

### **2.01 MANUFACTURER**

- A. Spectrum Corporation, 10048 Easthaven Blvd., Houston, TX 77075  
Phone: 713-944-6200, 800-392-5050, Fax: 713-944-1290  
Website: [spectrumscoreboards.com](http://spectrumscoreboards.com)

### **2.02 PRODUCT OVERVIEW**

- A. Basketball Scoreboard Model 5105-A2 with MS-250 control scoring console for basketball and volleyball.  
Scoreboard shall have the following displays:
  - 99:59 Minute Clock
  - Home and Visitor Scores
  - Period Indicators
  - Possession Indicators
  - Double Bonus indicators
  - Team Name in place of HOME (optional)

## 2.03 SCOREBOARD

### A. General Information

1. Dimensions: 1'-9" H x 5' W x 6" D  
(53 cm x 1.5 m x 15 cm)
2. Weight: 57 lbs. (26 kg)
3. Power requirements: 163 VA, 120 VAC
4. Shall have a Premium Polyurethane Finish
5. Select from stock colors or match to a PMS color (number \_\_\_\_\_)
6. Shall have a deluxe game horn rated at 100 dB @ 10'0"
7. Shall have Border Trim and Clock Striping
8. Scoreboards functionality shall include:
  - 99:59 Minute Clock counts down
  - Home and Visitor scores 0-99
  - Period 1-4 indicators
  - Possession indicators
  - Double bonus indicators

### B. Construction

1. Scoreboard face: 22g galvanized steel with premium polyurethane finish
2. Scoreboard back: 24g galvanized steel
3. Digit face plate: 0.125 acrylic lexan clear sheet

### C. Digits

1. All LEDs shall be covered with 1/8" lexan SpectraShields™ to protect and absorb impacts
2. Shall be a combination of red and amber LED digits
3. Shall be rated 100,000 hours of use
4. Shall be 8-segment solid stroke design
5. All LED digits shall be individually serviceable from the front of the scoreboard cabinet
6. Scoreboard assembly shall include eight (8) numeric LED digits, four (4) period indicators, two (2) double bonus indicators and two (2) possession arrow indicators.
7. Digit sets shall have:
  - SpectraBrite LED digit technology  
7" (18 cm) high - Down, To Go, Quarter and Ball On  
Shall include 108 LEDs per digit

### D. Captions

1. HOME and VISITOR shall be 4" high (10 cm)
2. Bonus and period 1,2,3,4 shall be 2" high (5 cm)
3. Captions shall be 3M brand 220 High Performance Vinyl applied directly to scoreboard face

## 2.04 CONTROL SCORING CONSOLE

1. Control shall be a MS-250 controller.
2. Controller functionality shall include:
  - Easy set up for different sports.
  - Memory backup to retain configurations and eliminate data loss
  - Durable, lockable rugged waterproof carry case
  - A ten (10) foot (3 m) low voltage data cable cord that connects to control receptacle junction box and shall unplug and store inside the carrying case
  - Does NOT require hazardous 120 VAC electrical power
3. Easy Programming:
  - Celebrate a home score with flashing numbers
4. Connection Options:
  - Direct wire, powered through control cable
  - Radio
  - Battery operation with radio - fully autonomous

## 2.05 AVAILABLE SCOREBOARD OPTIONS

**\*\* NOTE TO SPECIFIER \*\*** *Select scoreboard options*

1. Team Name caption in place of HOME caption
2. Digit Style: Pro-Style, Ultra-Bold, SpectraBrite™
3. Digit Color: All Red, All Amber, Combination Red and Amber
4. Color Options: Add a custom two-tone color to the scoreboard
5. Finish: Perma-Coat adds protection to finish and vinyl
6. Border Trim Striping Style: Curve, Oval, Octagon, Square
7. Clock Striping Style: Curve, Oval, Octagon, Square
8. Lettering: Standard, Outlined, Shadow
9. Mascot: Standard to extra-large size in 1-color, 2-colors, 3-colors, or full-color
10. Caption Option: Backlit Captions
11. Additional scoreboard functions per purchase order

## 2.06 AVAILABLE UPGRADES AND ACCESSORIES

**\*\* NOTE TO SPECIFIER \*\*** Select scoreboard upgrades and accessories

1. Multi-Sport Captions Plates
2. Controller Clock Handswitch for second operator
3. Radio Controller
4. Electronic Team Names
5. Electronic Message / Animations Displays
6. Video Display (custom designed to fit scoreboard)
7. School and/or Sponsor Signs
8. Scoreboard Accents (truss, arches, lettering, pole wraps, flags)
9. Clocks and Timers

## PART 2 EXECUTION

### 3.01 EXAMINATION

#### A. Verification

1. Confirm the mounting structure is completely cured and prepared for scoreboard. Verify plans and specification drawings are in accordance with manufacture's instructions and approved drawings.

#### B. Installation

1. Confirm scoreboard location. Verify electrical requirements have proper power source.
2. Confirm conduit and wiring are in place to be routed to scoreboard and accessories as shown on electrical plans by the Electrical Contractor. The contractor assigned the scoreboard equipment shall be responsible for all routing of conduit and wiring.
3. Secure scoreboard and confirm accessories are level and plumb with brackets and fasteners.
4. Test scoreboards and accessories to ensure all operations performing accurately.
5. Clean and touch-up any exposed areas.

Specifications are subject to change without notice.

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END OF SECTION