

# SPECTRUM ARCHITECTURAL SPECIFICATION

## Model 6230-UL4

August 1, 2005

### PART 1 GENERAL

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| 1.1   | GENERAL  |
| 1.1.1 | Scoreboard(s) shall be UL Listed and be remotely operated via three-wire shielded grounded cable from control point(s). Scoreboard(s) shall display the following information: Minutes, Seconds, Home and Visitor Score, Period, Penalty, Double Penalty and Goal Indicator for each team. |
| 1.1.2 | Game Clock shall have a lit colon or decimal to indicate display of either minutes and seconds or seconds and tenths and hundredths of seconds.  |
| 1.1.3 | Equipment to be solid-state electronic technology.   |

### PART 2 PRODUCT

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| 2.1    | SCOREBOARD  |
| 2.1.1  | Shall be Spectrum Model 6230-UL4 or approved equal to this specification by the architect. Provide ____ units of this model.  |
| 2.1.2  | Overall cabinet shall be 3 feet in height by 10 feet in length by 5 inches in depth including mounting brackets, and constructed of 22 gauge steel. Cabinet color shall be as selected from the manufacturers standard colors with appropriate trim colors. Cabinet to be shipped assembled and constructed for wall mounting. Approximate weight is ____ pounds. |
| 2.1.3  | Display digits shall be made up of eight segments and contains sixteen (16) SpectraLite LEDs per pixel. SpectraLite LED Digits shall be colored Red for Clock, Penalty, Double Penalty and Home and Visitor Goal Indicator; and colored Amber for Team Score and Period.  |
| 2.1.4  | Digit height to be 14 inches for Clock and Team Score; and 10 inches for Period. Clock shall have a display capacity up to "99:59"; team scores to "99"; and period to "9". Penalty shall be indicated by "X" and Double Penalty by "X X".  |
| 2.1.5  | All LED digits are covered with 1/8 inch Lexan Spectrasheilds to protect and absorb impacts.  |
| 2.1.6  | All pixels are rated at least 100,000 hours of use.   |
| 2.1.7  | Display configuration shall be 4 x 7 for 14 inches; 3 x 5 for 10 inches.  |
| 2.1.8  | Digits shall consist of the following number of pixels: 14 inches, 20 pixels; 10 inches, 13 pixels (16 LEDs per pixel).   |
| 2.1.9  | LED Digit Brightness: 40,000 MCD (millicandela).  |
| 2.1.10 | Finish in Premium Urethane Paint.   |
| 2.1.11 | Captions shall be adhesive backed vinyl permanently attached to the cabinet and Home and Visitor shall be 6 inches in height; and Period, Penalty and Goal shall be 3 inches in height.   |
| 2.1.12 | Electronics to be packed in a low voltage plug-in processor accessible from the cabinet front.  |
| 2.1.13 | Power to be 480 watts maximum, 120 VAC, 60 Hz.  |
| 2.1.14 | Provide an electronic standard horn rated at 100 dB @ 10'0".  |

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| 2.2   | CONTROL  |
| 2.2.1 | Shall be model MS-250 housed in a protective, weather resistant carrying case.   |
| 2.2.2 | Construction shall be a plastic case 8 ¾ inches long by 3 ½ inches high by 8 inches deep.  |
| 2.2.3 | Controls shall be 100% solid state. The microprocessor (MPU) computer chip shall be located inside the control console. Low voltage control signal shall be sent from the control console over a 3-wire control cable to the scoreboard. |
| 2.2.4 | Furnished with a 10' low voltage data cable cord to connect to control receptacle junction box and shall unplug and store inside the carrying case. Does NOT require hazardous 120 VAC electrical power.                                 |
| 2.2.5 | Electronic features shall include a program mode allowing change in sport controlled or accommodation of a sport rules change and a memory circuit to retain information if power is interrupted.  |

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| 2.3   | REMOTE CONTROL CABLE  |
| 2.3.1 | Furnish one length of three wire-shielded, grounded cable to connect receptacle junction box to the scoreboard cabinet. |

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| 2.4   | LIMITED WARRANTY  |
| 2.4.1 | Spectrum Solid State Scoreboards are guaranteed for a period of five (5) years (LEDs are guaranteed for a period of ten (10) years) against any defects in materials. Urethane Finish is guaranteed for a period of ten (10) years against any defects in materials. First year service includes cost of labor and parts when returned prepaid to Spectrum Corporation. Remaining four (4) years cover parts only, when returned insured, prepaid to Spectrum Corporation. 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. |

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| 2.5   | OPTIONAL EQUIPMENT   |
| 2.5.1 | Provide wireless radio control operation for above equipment.        |
| 2.5.2 | Provide Spirit/Sponsor sign panels for above equipment.              |
| 2.5.3 | Provide MSX Controller upgraded control console for above equipment. |