Sports perimeter LED display
- Prepared by SHEC
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Keywords: Sports perimeter, LED display, sports stadium
Introduction of Sports stadium LED display

Everyday thousands of sports games (eg, football, basketball, volleyball, baseball, motorsports, soccer, softball etc) are being played throughout the world. We are one of the best company can bring the ultimate game-day experience to sports games fans everywhere. Our wide variety of scoreboards display the details clearly while LED displays bring the game to life, giving fans the information and entertainment they crave.

The combination of sports and commercial advertising can be traced back to the late 19th century. The advertising media evolves from athletes to the LED screen. The LED screen as a specific advertising media is generally used on the giant gymnasium, football field, in which full of mass audience. So, to place LED screen there is cost-effective. Comparing with the traditional ad. media, LED screen is much more attractive and can display lots of ad. information, and it can be cyclic utilization, which make it an absolutely first choice for sports sponsors.

The LED screen used on stadium can be divided into 3 kinds by applications. Sports stadium LED display, Events live broadcast LED display, LED score board.

For getting the best display effect, the LED screen must go through many strict tests; the 1st is the refresh frequency. For the commonly used LED screen, the refresh is 300~600HZ, this is good enough for humans eyes, but for the stadium used LED, such levels will cause the water wave. So a higher refresh frequency is necessary. Our products adopt the advanced control system from “Zdec”, which guarantee the LED screen with 4000HZ fresh frequency, providing you the best display effect and. Meanwhile, the stable LED models: PH16 and PH20, ensure you a very good viewing quality even at a bright sunny day. You deserve it.

Second, for the screen will be place on the playground, we consider more for athletes. Our humanistic & customized, athlete protected stadium perimeter has the specific screen soft top cover and soft face veil protect athletes from damaged if hit onto the screen. We think of it before you ask for.

Another, for all the audience on site get the best viewing angle from the LED, we design the particular mounting leg for the screen, the viewing angle can be adjusted from vertical to off vertical 50 degree. We do that for you.
More and more sports stadiums are looking to use LED technology to improve image quality during broadcast and to offer high-quality advertising and branding packages.
◆ Stable and Highest Color-Accuracy 3RGB LED configuration, color more pure, pictures more vivid.
◆ High brightness which is adjustable to meet the needs of various working environments sufficiently.
◆ All raw materials go through the strictly testing of high/low temperature and high humidity, anti-ultraviolet rays, anti-corrosion
◆ Large viewing angle covers the majority of audience. Getting noticed, endless commercial value.
◆ Protection grade: IP65~IP67.
Soft mask (for protecting players)
Two couples fast locks to make sure the cabinets be combined tightly.

Height: 960mm    Brightness: 5500cd/m2
Width: 1280mm
This is the cabinets of the sports screen which was took in the our trade show in Dubai.

Can be adjusted the viewing angle when necessary.
Advantages of our sports perimeter LED display

- Wide viewing angle, high brightness
- Extraordinary color consistency
- 16bits processing depth, 8000Hz refresh rate, showing a true HD image
- Adopted backup system for power and controllers
- Functional software can carry out multi-playing windows in one screen
- The cabinet is made from Aluminum with lock button & hanging structure, suitable for both sports perimeter application & rental application
- The usage of intelligent power supply enable the input power can be switched between 110V and 240V without manual operation
- EMI filter inside cabinet is to block the electricity surge
- LED Display get the qualified power so as to make the LED Display working stably
- The fans inside cabinet are controlled by temperature sensor switch
Galatasaray Arena, Istanbul Turkey P12 240㎡-1
Industrial controlling PC:
IPC is industrial Personal Computer which can use continuously for 2 years with no any stop, LED display use IPC is a special IPC which is only 25mm thickness and can install inside the LED display cabinet. The name of it is LED6689.
The photos of the LED display use IPC is here for your reference (it has a touch screen which is very convenient to install inside the LED display cabinet & the easy to make program)
1. Brief
1) LED Industrial Control Machine View
2) Configure Illuminate
3) Installation Environment Illuminate
4) Exemption Illuminate.

2. Inner Structure
1) LED Machine Inner Structure Explanation
2) Inner Structure Connection
3) Transmission Card Installation and Method of Inner Link.

3. Inside Out Structure
1) Inside Out Connection Explanation
2) Inside Out Connection Link
3) Inside Out Link of Mainboard and Transmission Card.
4) Link between LED Machine and LED Display
5) Fixing Hole View of LED Machine

4. BIOS Setting of LED Machine.
1) BIOS Introduction
2) Display Model & Distinguish Rate Setting.
3) Open Machine Setting When Power Open.
4) Internet Function Setting
5) Time Setting Of Open Machine
6) Watch dog setting

5. LED Mainboard Power Consumption explanation

6. Pay attention to the following points: 28
1) It is not allowed to change the display equipment of display attribute randomly.
2) When Enter into the system, LED studio will be renovated into newest version.
3) The remote controlling function is set by LED studio.
4) The automatic play is set by LED studio.
5) USB setting
6) Reinstall system by hostmuti

2) Configure Illuminate

<table>
<thead>
<tr>
<th>System</th>
<th>Support WIN98/2000/WINXP/WINCE/XPE/LINUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Case</td>
<td>Silver, Atami, 6G Aluminum-alloy dustproof case (with dustproof sponge in both of sides)</td>
</tr>
<tr>
<td>Embedded Mainboard</td>
<td>Intel CM8101G lower power consumption embedded mainboard Integration 2D 3D reveal cards, MPEG-4 decompression</td>
</tr>
<tr>
<td>Memory</td>
<td>One DDR266 DIMM insert slot and can support 1G at most</td>
</tr>
<tr>
<td>Memory Equipment</td>
<td>Inside 2.5&quot; HDD Drive Bay x 4 82-proof and lower consumption design</td>
</tr>
<tr>
<td>Expand Slot</td>
<td>One piece of 32-bit expand slot</td>
</tr>
<tr>
<td>LVDS</td>
<td>LVDS connector can connect the transferring card indirectly (on the connecting line marked the control board and transfer card, especially pay attention to the indication and the type of inserting and pulling)</td>
</tr>
<tr>
<td>BIOS</td>
<td>Award BIOS 2/4M memory</td>
</tr>
<tr>
<td>Dimension</td>
<td>410mm x 210mm x 60mm</td>
</tr>
<tr>
<td>LED indicator</td>
<td>One power source switch indicator, one hardisk visiting indicator</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Supporting Input Voltage Range: 100V~240Vdc (Power source output): +5V, +12V, -12V, +3.3V, +5VSB</td>
</tr>
<tr>
<td>Power</td>
<td>12V(5V) Power OK</td>
</tr>
<tr>
<td>Power (ATX connector)</td>
<td>Rated power: 200W</td>
</tr>
<tr>
<td>Approved Certificate</td>
<td>CE, FCC, CCC</td>
</tr>
<tr>
<td>MIO</td>
<td>Connection x 1 PS/2 keyboard/mouse connection x 1 serial interface x 1 RJ45 x 1, LPT x 1, AUDIO/VGA</td>
</tr>
<tr>
<td>USB</td>
<td>4 x USB</td>
</tr>
<tr>
<td>Ethernet</td>
<td>2x / 0/100 Ethernet connector</td>
</tr>
<tr>
<td>Working temperature</td>
<td>-10°C ~ 50°C</td>
</tr>
<tr>
<td>Memory temperature</td>
<td>30°C ~ 85°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10% ~ 90% (without condensed dew)</td>
</tr>
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HD LED video processor
Flight cases:
Flight case is a special packing case for the rental LED display, it has 4-6 wheels and 8 handles which is very convenient for transportation and moving. Detail is like the following photo shows.
China Shenzhen yantian stadium
(high fresh frequency 2000Hz, indoor P10, 2400 nits bright, 60 SQM/ per pcs)