Tips to Show Clearer Images on Outdoor LED Sign by Crowin Smith

Article published on March 5th 2012 | Technology

There are several kinds of outdoor LED sign based on their colors, such as Monochrome LED Sign, dual LED Sign, Full Color LED Sign, etc. You may use them to present simple characters, images or commercial videos for your business. But generally speaking, you want them to show very clear and vivid images no matter what kind of sign they are. Here are some tips to achieve that:

1. Adjust the gray level. Gray level is the brightness of a LED pixel. The value associated with a pixel representing it's lightness from black to white, usually defined as a value from 0 to 255, with 0 being black and 255 being white, which means the higher gray level is, the richer the colors are. Raising the gray level in certain scale can highly improve the image quality showing on the LED sign regardless of what type of LED display you are having. Even in a single color LED sign, high gray level can make the color gradation much richer and the image more tridimensional.

2. Enhance the contrast. Higher contrast means higher color saturation, which leads to a more vivid and clearer visual affect. High contrast will do a lot to improve the clarity, detail performance and gray level of the image. In some texts and videos that have a large black-white contrast, the high contrast LED display will have an advantage on the black-white contrast, definition and completeness. Also the contrast has a large impact on the presentation of motion videos.

3. Use black LEDs if itâ€™s a 3 in 1 SMD display. As you always see, the traditional 3 in 1 SMD use white LEDs but if you want to make your 3 in 1 outdoor LED sign show with much higher contrast images, it would be a good choice to use black LEDs. The effect of this method is actually the same as the second method mentioned above, which is to enhance the contrast. The normal LED display can look unclear and overexposure when itâ€™s viewed from a big viewing angle and using black LEDs can solve this problem easily and make the sign look clear while being viewed from each side.

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Article Keywords:
Outdoor LED Displays, Electronic LED Displays

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