How To Fine-Tune An LCD Display

Typically, an LCD display will have a very good image right out of the box. Additional improvements can be made to the display by adjusting the settings. The ideal tool to use is a grayscale pattern such as the SMPTE pattern (shown below) or equivalent. This will allow the Brightness and Contrast to be set correctly without guessing.

For optimal image quality, set-up your monitor in the following sequence:

1. With a representative image on the screen, use the OSD (On-Screen Display) buttons to have the display "Auto Adjust".   This will set the majority of the adjustments to their optimal level.

2. Set Brightness: With an image that displays Black portions, set the Brightness control to adjust these black portions so they appear black and not gray. Set too low, the whole image will appear too dark; set too high, the image will appear washed out.

3. Next, Set Contrast: With an image that has White portions, set the Contrast so that the whites are bright without becoming over-saturated. There should be some definition between white and slightly darker regions of the image.

4. Once the Brightness and Contrast are set, the color temperature can be set. Choose 9300K for a Cool (more blue) image, 6500K for a Warm (more red) image, or you can select "USER" to create a custom color temperature. Some displays may also offer a color temperature of 7500K.
    Color temperature can be subjective and greatly depends on the desired representation of the image.