Color Calibration Features:

- **On-The-Fly Color Calibration**
  Calibrate your display on the fly to achieve sRGB color.

- **Universal Calibration For All Windows Applications**
  Calibration works for all Windows calibrations. No ICC profiles are required.

- **Profiles**
  Save color profiles for easy access and future use.

- **Patented, Easy-to-Use Calibration Process**
  Unique process calibrates LCDs to sRGB standard.

- **Check for Upgrade**
  Link to www.portrait.com to automatically check for product upgrades.

- **Systems Support**

- **Technical Support**
  Link to www.portrait.com using automatic form for online support.

**Essential LCD Color Calibration**

Color is an important part of your computing experience. Unfortunately, computer peripherals, and especially computer displays, have not delivered accurate and consistent color. The Display Tune® Color Calibration plug-in is a tool that helps you visually calibrate your LCD to full, vibrant color without the need for expensive and difficult to operate hardware meters.

CRTs are the basis for the Microsoft® Windows® standard sRGB color space for graphics and image displays. Ordinary CRT displays, with correct Brightness and Bias settings come fairly close to the sRGB standard, even when uncalibrated. In stark contrast, nearly all LCDs require accurate adjustment of the On-Screen Display (OSD) hardware settings and relatively sophisticated calibration of the graphics card in order to display colors and images with any accuracy. Unlike CRTs, LCDs’ natural tone curves do not closely match gamma curves in shape, let alone the gamma 2.2 standard curve, and they generally have very poor gray balance as well. Their tone curves are naturally very dark overall, roughly equivalent to a gamma 3.0. The Color Calibration plug-in lets you quickly and accurately achieve sRGB color with LCDs.

And with the Color Calibration plug-in, you don’t need supplementary ICC profile-based color management transformations for overall screen color and tonality to be correct, since nearly 100% of colors and images displayed on Windows systems are displayed without color management. The Color Calibration plug-in provides a method of applying full-time, accurate calibration for the absolutely critical function of LCDs displaying graphics and image data accurately.

The Color Calibration plug-in provides a simple, step-based set of visual calibration tools that allow the user to calibrate tonality and gray balance. This is accomplished through very accurate adjustments at six critical, carefully chosen points throughout the tone scale. Unlike all other visual calibration methods, the Color Calibration plug-in extends the reach of its visual targets deep into the highlights and shadows. This gives the Color Calibration plug-in its unique ability to mathematically adjust curves into shape, a process that was never required on CRTs. The Color Calibration plug-in can make even low-quality LCDs emulate calibrated CRTs.

Using your natural ability to discern color and gray tones, the Color Calibration plug-in lets you take all the variables into account in a way that factory calibrations can’t. This includes the effects of the graphics card, your preferred viewing angle and ambient lighting conditions. The “end-user visual calibration” achieved with the Color Calibration plug-in lets you actually know that the display is calibrated, because the visual targets prove that it is or isn’t. Any important color assessment, such as when shopping on the Internet or printing photographs, can be made with more confidence.
What is the Display Tune® Color Calibration plug-in?
The Color Calibration plug-in is an end user oriented color calibration software tool designed to deliver enhanced color accuracy and consistency from computer displays, scanners, printers and all Windows applications. Simple to use, the Color Calibration plug-in delivers an easy method for enhanced color fidelity and allows users to trust and manage the colors communicated between color peripherals in their computer system.

How does the visual calibration work?
1. Sit comfortably in front of your display.
2. Set the White Point, Pitch, and Phase using the auto-setup command in your display’s On Screen Display (OSD).
3. Set the Brightness and Contrast in the first two steps of the Color Calibration plug-in.
4. For each of the six tone steps in the Color Calibration plug-in, adjust the lightness of the inner square to match that of the surrounding lined pattern, using the slider, the up and down buttons on screen, the up and down arrow keys on the keyboard, or the mouse wheel.
5. Also adjust the hue and chroma of the inner square to approximately match that of the surrounding lined pattern by dragging the square around within the rainbow circle until it appears to have about the same color as the lined area. When the movable square blends fairly well, you’re done. It’s all point and click!

And unless you make a subsequent change to any of these six tone steps, the Color Calibration plug-in will automatically calculate and apply the corresponding compensation to the video signal. This assures data being sent to the screen is being displayed correctly. At the end of the process, all of your settings and the information necessary to apply the compensated video signal are saved together in a single setting file. The calibration should not have to be repeated for long periods, but can be performed for a variety of ambient lighting or viewing angle conditions, for example, and recalled at will from a list of saved user-defined settings. The display’s behavior can be quickly and comprehensively modified simply by selecting any saved settings file, which loads all adjustments as previously saved to that file.

What are the advantages of the Color Calibration plug-in?
1. An accurate gamma 2.2 tone curve adjusted at your preferred viewing angle, with your graphics card, and under your ambient lighting conditions.
2. Excellent gray neutrality throughout the tone scale.
3. RGB colors approximating the sRGB standard.
4. All-the-time calibration, not just for color managed applications.
5. Ability to store and retrieve color calibration profiles.
6. Accurate color!