



MONITOR SETTINGS FOR COLORMUNKI™ CALIBRATION

INTRODUCTION

To properly calibrate and profile a monitor, you need to know how to adjust the contrast and brightness. These settings are important for anyone who wants reliable on-screen color, especially those who edit images for print. Since some monitors offer more options than others—and some do not offer contrast controls at all—adjusting these settings can be a confusing task. This document will walk you through the steps to adjust contrast and brightness for a system calibration with ColorMunki™ software and the ColorMunki Photo spectrophotometer. Use it as a companion to the wizard-based steps in the ColorMunki software for a simple and easy to follow calibration process.

BRIGHTNESS & CONTRAST

MONITOR CONTROLS

Many monitors do not offer user control over contrast settings. This is not necessarily a bad thing because it

often means the monitor and calibration software will take care of it without your input. For instance, Apple® Cinema displays, iMacs® and laptops don't offer any easily accessible contrast controls. There is a contrast adjustment in the Universal Access control panel, but it is intended for those with vision problems, not for normal use.

HOW TO SET BRIGHTNESS AND CONTRAST

1. After launching ColorMunki, choose the type of display you are profiling: **LCD**, **laptop** or **projector**. If you are using a CRT, choose **LCD**.
2. Select the **Advanced** profiling mode. The following options will appear:
 - “Optimize the brightness and contrast settings of my display”—Always select this option.
 - “Optimize the luminance level of my display based on my current ambient light conditions”—If you work in a setting where

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the ambient light doesn't vary much, choose this. If you have lots of windows in your office or are calibrating a laptop that will be used under many different lighting conditions, skip this option.

3. In the "Target White Point for display" drop-down, select **D65** for most uses. If you complete the profiling process and your monitor has taken on a color cast, re-profile using the **Native** setting, as some monitors have a native white point that is different than both D65 and D50.
4. If you chose the "Ambient Light Measurement" option, the software will direct you to adjust the ColorMunki Photo spectrophotometer to measure the light near your monitor. After this reading has finished, the software will automatically set the monitor's luminance point.
5. After you place the ColorMunki Photo on the display, you will be asked to adjust the contrast. If you're using an Apple display, this adjustment is not available, so you can skip this step.
6. After the software takes its readings, choose **Next**. Once again you will be presented with an on-screen gauge that shows a green optimal reading area to adjust contrast and brightness.
 - If your monitor has contrast adjustments and the reading is outside of the desired area, adjust the it until the black bar falls in the green tolerance range.
 - If you have a DDC (Direct Digital Control) capable monitor, the ColorMunki software will take control and adjust the contrast and brightness without needing your input. You will know this is the case if the software starts and begins taking measurements without presenting a "Next" button. The software will run to conclusion by adjusting contrast and brightness, then create the profile automatically.
8. If your monitor is not recognized as having DDC capability, a brightness measurement will follow the contrast adjustment screen.

ColorMunki Display Profiling



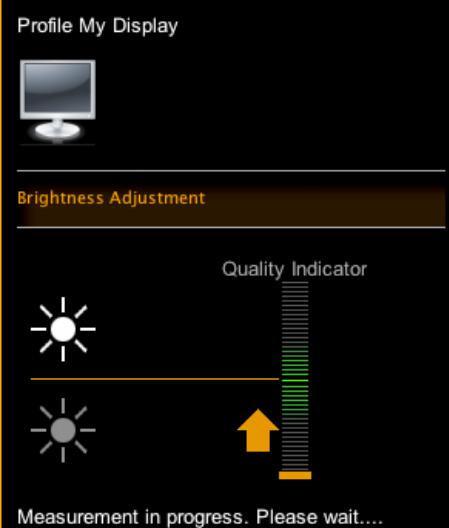
Profile My Display

Contrast

Set the contrast of your display to its maximum (using your display's control panel) and press the "Next" button.

Note - If your display does not have a Contrast control, press "Next" now.

← Back **Next →**



Profile My Display

Brightness Adjustment

Quality Indicator

Measurement in progress. Please wait....

← Back **Next →**

ColorMunki's Contrast and Brightness controls guide you to achieve the best settings on your monitor.

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- After a few initial measurements, the “Brightness Adjustment” gauge will appear. At this point, simply adjust your monitor brightness up or down as necessary until the orange bar is as centered as possible in the green tolerance range.

HOT TIP

If you have an Apple display, the brightness controls are typically on the right edge of the monitor, and Apple laptops have keyboard brightness controls. If your monitor has brightness adjustment knobs or brightness is adjusted with an On Screen Display, make adjustments here until you are in tolerance.

SUMMARY

Monitor brightness and contrast are two very important components of the calibration and profiling process. Optimizing these settings for your display is the first step in ensuring your colors will print correctly, and will display your images with the most accurate color and tonal range possible.

Once you have adjusted the contrast and brightness to the best of your monitor’s abilities, the software will continue the profiling process and automatically save and implement the profile. The next time you profile your monitor, the new profile will write over the old one to keep your system from getting clogged with old monitor profiles.