

Basic screen calibration using the *Calibrate Display Color* feature in Windows 10.

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Background

This instruction describes how to ensure that your screen is roughly calibrated so that the brightness contrast and colours which you see in your image (on your screen and during editing) should be pretty much the same when viewed on any other screen which has been calibrated (all judges should ensure that their screen is calibrated before judging).

The best way to calibrate your screen is to use a calibration device such as a Spyder or Colourmunki, which cost from about \$150. However, the windows feature described here will get you fairly close (and without extra expense).

This feature is available in older versions of windows including 8, 7, and xp, however navigating to find the feature may be different in these older versions.

Instructions

- First of all, find out on your computer how you adjust the brightness and contrast. Some computers do not have easy access to adjust the contrast – if that is the case for your computer, don't worry about the contrast adjustment steps below; just do all of the others and it should still be pretty close. Many computers have the ability to adjust the brightness via the keyboard – this is fine.
- 2. Left or right Click on the Windows icon in the bottom left of screen and select Settings. Click on System, then Display. Scroll down to "Display adapter properties" (or "Advanced display settings" then "Display adapter properties") and click on that.
- 3. In the window that pops up, click on the Color Management Tab (near the top). Then click Color management button.

Adapter Monitor Color Managemen	t 🐝 AMD Catalyst Control Center
Adapter Type	
AMD Mobility Radeon HD 5	570
	Properties
Adapter Information	
Chip Type: AMD Radeon Gra	phics Processor (0x68C7)
DAC Type: Internal DAC(400	IMHz)
Adapter String: AMD Mobility Rad	leon HD 5570
Bios Information: 113-C07603-101	
Total Available Graphics Memory:	2816 MB
Dedicated Video Memory:	1024 MB
System Video Memory:	0 MB
Shared System Memory:	1792 MB
List All Modes	
0	K Cancel Apply

4. You should see this:

🛃 Color Management			×
Devices All Profiles Advanced			
Device: Display: 1. Generic PnP Monitor - AMD Mobility Ra	deon HD 557(0	~
Use my settings for this device		Identify monitors	
Profiles associated with this device:			
Name	File name		
HP TouchSmart_D65_201801081732.icm (default) HP TouchSmart_D65_201801081641.icm HP HP610-1 sRGB display profile with display hardware configuration data derived f	HP TouchSm HP TouchSm HP HP610-1. CalibratedDi	art_D65_2018010817 art_D65_2018010816 icm isplayProfile-1.icc	
Add Remove		Set as Default Profile	
Understanding color management settings		Profiles	
		Clo	se

5. Click on the Advanced Tab (circled in red above), and you should see this:

Device profile:	System default (sRGB IEC61966-2.1)	~
Viewing conditions profile:	System default (WCS profile for sRGB viewing conditions)	~
ICC Rendering Intent to WCS Gamut Ma	pping	
Default rendering intent:	System default (Perceptual)	~
Perceptual (photo images):	System default (Photography)	~
Relative Colorimetric (line art):	System default (Proofing and line art)	~
Absolute Colorimetric (simulate paper):	System default (Proofing - simulate paper/media color)	~
Business Graphics (charts and graphs):	System default (Charts and graphs)	~
Display Calibration		
Calibrate display	Use Windows display calibration	
Reload current calibrations	//	

6. Click on the Calibrate Display button (circled above) and the feature we are looking for should open and look like this:

🛃 Display Color Calibration		_	~
Welcome to Display Color Calibration			
u can improve the color on your display by using Display Color Calibra at colors appear accurately.	ation to mak	æ sure	
get started, move this window onto the display that you want to calib ext.	orate, and th	ien click	
ow do I calibrate my display?			

7. Move through the screens, following the directions as you go. You don't need to spend much time getting it perfect: this is a rough calibration and very small adjustments don't make a great deal of difference. The first is Gamma (don't worry about exactly what this is, just follow the directions – or google it!)

- C >	C Display Color Calibration
Set basic color settings	How to adjust gamma
To get started and set basic color settings for your display, press the menu button for your display. The menu button, usually located in front of your monitor, opens the on-screen display menu. To determine which button opens the on-screen display menu, see the documentation for your display. The specific color settings that you can set depend on your display and its capabilities. If you can, set your display to the factory default color settings. • If necessary, more the position of the on-screen display menu by using the monitor buttons, so the menu doesn't cover the Neta button. If you can't specify these settings, just click Next to continue.	Gamma defines the mathematical relationship between the red, green, and blue color values that are sent to the display and the amount of light that's ultimately emitted from it. When adjusting gamma on the next page, try to get the image to look like the sample image labeled Good gamma below. Gamma too low Good gamma Gamma too low Good gamma To continue, click Next.
Next Cancel	Next Cancel
← Im Display Color Calibration Adjust gamma	x
Reset Move the slider to minimize the visibility	Ity of the small dols in the middle of each circle.

8. The Brightness is probably the most important thing to get right and most people agree that it is better to err on the side of too dark rather than too light, if anything. You should be able to just make out the black X from the background.



9. Contrast is next. If you can't find the contrast control for your computer, just skip this by clicking next.



10. Colour balance is next, but I usually don't need any adjustments for this as I don't find any colour casts. Most modern screens are pretty good.

	- D X - D	×
← 📓 Display Color Calibration	← 📓 Display Color Calibration	
How to adjust color balance	Adjust color balance	
The color balance adjustment determines how shades of gray appear on your display.	Move the red, green, and blue sliders to remove any color cast from the gray bars.	
Move the red, green, and blue sliders on the next page to remove any color cast from the gray bars.		
To continue and adjust the color balance. Too red Too green click Next. Too much red and plue and green	Too much red and green	
	Next Carcel	Cancel

11. That's the end of the calibration. Try clicking between the previous (what you had before) and current (what you adjusted to) calibrations.

	-	I		×
~	Display Color Calibration			
	You've successfully created a new calibration			
	To compare this calibration with the previous one, click Previous calibration and Current calibration.			
	Previous calibration Current calibration			
	If you're happy with this new calibration, click Finish to save and use it.			
	If you want to use the previous calibration, click Cancel.			
	If you click Cancel, any settings that were changed using the display buttons or the on-screen display menu will be kept. These settings can't be automatically restored.			
	Start ClearType Tuner when I click Finish to ensure that text appears correctly (Recommended)			
	Finish		Can	rel
			Com	

End of instruction.