

Calibrite® Scanner ICC Profile Workflow

Requires a supported Calibrite ColorChecker Target:

- Calibrite ColorChecker Classic (24 patch)
- Calibrite ColorChecker Digital SG (140 patch)

Use ColorChecker Digital SG for enhanced benefits when making scanner profiles.

A: ColorChecker Target Capture

- Position Calibrite ColorChecker target on scanner and do a preview scan.
- Crop to target area plus a margin space around the target.
- Switch off any auto correct options and unsharp mask (USM).
- Set to 16 bit and intended resolution.
- Check the preview (or scan if necessary), that the exposure is correct as follows:
 - White patch RGB values are all within the range 220–245
 - Black patch is no lower than 7
 - Mid gray patch, on SG Chart, patch H5 near the middle of target, and the boarder pattern gray (or the gray below the yellow on the classic target) should ideally fall within the RGB range of 128/128/128 +/- 30.
 - The gray individual RGB values should ideally not vary greater than +/- 3 between each channel.
- To achieve the above adjust whichever manual tools are available in your scanning software, such as “Exposure” and “Gamma”, “White/Gray-balance” but avoid applying any “Auto” options.
- Save any adjustments as a preset for applying to future scans (or make a note of the values if presets cannot be saved).
- Scan and save the Target image – checking that the exposure parameters are as expected in the final scan.

B: Create a Scanner Profile

- Launch Calibrite PROFILER
- Select: SCANNER workflow – any supported Calibrite device needs to be connected to use the Scanner workflow.
- Follow the application scanner help text to load and position the target.
- Save the profile.
- Launch (or relaunch) your image editing application so that your new saved scanner profile will be available within the application.

C: Image Scanning and Applying Scanner Profiles

- Scan and save required image(s) using the same settings as used to scan the calibration target.
- Some scanning applications may allow you to set the custom scanner profile in the software so your scanned image files can be saved to automatically include the profile applied.
- Alternatively, open scanned images into your image editing application and go to the “Assign ICC Profile” option. In Photoshop this is in the Edit menu and is called “Assign Profile...” Alternatively if using Photoshop, depending on your settings, you may be prompted when opening the image to assign the profile as part of the open file action.
NOTE: A benefit of opening the image before assigning the profile is that you can then see how the image has initially been captured in comparison to the improvements made by assigning the scanner profile.
- Once you have applied the scanner profile to an image is generally more consistent if, in your image editing software, you then use the “Convert to Profile...” option, to convert the image from the scanner profile colorspace into a standard working colorspace, such as Adobe RGB, P3, or sRGB.