

COLOR checker[®]

PASSPORT



RAW COLOR POWER

Control and Creativity from Capture to Edit

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PASSPORT

ColorChecker Passport is so convenient and portable you'll want to take it with you to every shoot!

ColorChecker Passport combines 3 photographic targets into one pocket size protective case that self-stands to adjust to any scene. Together with the included camera calibration software you get the ultimate in functionality, flexibility and portability.



Creative Enhancement Target – neutralize and create your look with one-click warming & cooling white balance patches; check and evaluate shadow details or highlight clipping; check and control color shifting



Classic Target – industry standard 24 Patch Classic color reference target for creating DNG profiles with included camera calibration software and also for evaluating specific colors



White Balance Target – create custom in-camera white balance for a consistent white point in a set of images, eliminating the need to correct each image later



Camera Calibration Software – includes both a desktop application and an Adobe® Lightroom® Plug-In for creating custom DNG profiles



Portable Protective Case – adjusts to multiple positions to self-stand, providing you the flexibility to place the targets exactly where needed

Why can't I use just any white object?

White balancing on a piece of paper or other gray element in the scene may seem like a simple workaround, but most objects are not actually neutral under all lighting conditions; and they're certainly not consistent. An inaccurate white balance will result in color casts and a lack of consistency between lighting conditions.

WHITE BALANCE TARGET

The ColorChecker White Balance target can be used for in-camera white balancing for both Raw and JPEG photography.

Starting with an accurate white balance ensures the colors you capture are true and provides a point of reference for post-shoot editing. The ColorChecker White Balance Target is an all-new spectrally flat target that provides a neutral reference point across different lighting conditions that you encounter during a photo shoot. Since the target reflects light equally across the visible spectrum, creating an in-camera custom white balance can properly compensate for varying lighting.

You'll be able to:

- eliminate color casts
- improve the color preview on your camera's display so your histograms are more reliable
- make post production color editing faster and easier by eliminating the need to neutralize each image individually



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CREATIVE ENHANCEMENT TARGET

Whether it's a studio shot, a colorful landscape or a multiple scene photo event, you can extend the power of your photo editing software with one-click enhancements in virtually any Raw processing software.

Creatively refine the color of your images with just a few clicks. Add warmth to skin tones. Boost the deep greens or blues in a landscape. Put warmth and depth of film back into your digital photos. Or use as a visual reference for judging, controlling and editing images for shadow details, highlight clipping or color shifts.

Selecting a warming or cooling patch from the middle rows will change the white balance values to the neutral values shown in the preview. Simply click through the patches to view the adjustment, and select the one that provides your optimal look. Then, save the setting and apply it to other images that were shot under that same lighting to create pleasing edits – it's that easy!

When it comes to clipping, the ColorChecker Creative Enhancement target highlights the power of working in Raw. With the gray ramp patches, you'll be able to quickly verify any clipping and ensure that the image has optimal shadow and highlight detail.

The HSL (hue, saturation, lightness) row includes 8 spectrum patches to ensure color fidelity across all hues.



Neutral



Warming Level 2



Neutral



Cooling Level 2



Creative Enhancement Target



HSL (hue, saturation, lightness) patches to check/edit color shifts



Warming Patches for Portraits



Cooling & Warming Patches for Landscapes



Gray ramp to assess shadow details and highlight clipping



CAMERA CALIBRATION SOFTWARE

Build custom DNG profiles with the ColorChecker Classic Target, the industry standard 24-patch ColorChecker. With the included ColorChecker Passport Camera Calibration Application and Lightroom® Plug-In, you can quickly and easily build DNG profiles for Adobe® Imaging solutions including Lightroom®, Photoshop®, Photoshop® Elements, Camera Raw (ACR) and Bridge.

This new advanced profiling technology provides excellent results with just the small 24-patch ColorChecker Classic target, producing DNG profiles that work exceptionally well, even in unusual artificial light sources. Plus, software auto-detection will locate the target automatically. Whether you are shooting with just one camera, or multiple cameras, you'll easily establish an accurate color foundation and maintain control of your colors.

- Camera calibration for Raw shooters enables greater capability to calibrate and correct color
- Accurate color gives a consistent foundation for creative interpretation
- Minimize color differences between cameras and lenses
- Adapt for mixed lighting
- Make color balance match across different scenes

Create Dual-Illuminant Profiles

A very powerful feature of the software is the ability to create dual-illuminant DNG profiles. This type of profile takes into account two different light sources to create a single profile, which can be applied to an even wider variety of lighting conditions. Dual-Illuminant profiles can be made with any two of twenty-one supported illuminants, allowing you to create a profile for just about any kind of lighting condition you may encounter. Dual-illuminant profiles allow you the freedom to move between the represented lighting conditions without switching profiles.

CLASSIC TARGET

Combine the Classic target with included camera calibration software to produce DNG profiles of your camera's response to scene lighting so you get consistent, predictable and repeatable results from image to image and camera to camera.

The Classic Target also provides a visual point of color reference. Photograph the Classic target in the same lighting as your images; then open it in your photo processing software as a reference to help with color correction.

Each of the 24 color patches represents the colors of natural objects, such as sky blue, skin tones and leaf green; and each patch reflects light just like its real world counterpart. Each square is individually colored using a solid tone to produce pure, flat, rich color without dots or mixed tints.

The Classic can help you make global corrections based on accurate information. If you shoot a large number of images that all require the same color correction, you know that editing a few key photos and applying your changes can sometimes change colors you didn't intend to be changed. A shot of the ColorChecker Classic captured under the same lighting as your images will provide a point of reference, so you can see exactly how changes will affect the rest of your colors before you apply them.



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The essential must-have for every photo shoot!

No matter what type of photography you shoot, you'll be able to take advantage of the many benefits, getting you the end-results you desire in a fraction of the time.

JPEG SHOOTERS

If you aren't shooting in Raw format, you'll still gain many great benefits when you include ColorChecker Passport in your workflow.



White Balance Target

- Ensure your JPEG files are captured with the correct white point
- Eliminate the chance of any extreme white balance errors which cannot be corrected later in JPEG workflow
- Save time on post production edits of each individual shot
- Improve preview and accuracy of histogram on the camera



Creative Enhancement Target

- Evaluate and optimize shadow details or highlight clipping with gray ramp patches
- Use as visual reference for color spectrum and color adjustment with HSL (hue, saturation, lightness) patches



Classic Target

- Photograph the Classic target in the same lighting as your images and use as a visual reference to help with color correction



SYSTEM REQUIREMENTS:

Windows[®]

- Microsoft[®] Windows[®] XP 32 or 64 bit (with latest Service Pack installed) or Microsoft[®] Windows Vista[®] 32 or 64 bit (with latest Service Pack installed)
- 512MB RAM
- Intel[®] Pentium[®] 4 or AMD Athlon XP[™] or better CPU
- 200 MB of available disk space
- User must have Administrator rights to install, uninstall the application.
- Monitor resolution of 1024x768 pixels or higher
- Internet connection required for software update

Macintosh

- Mac[®] OS X 10.4.11 or 10.5.x (with the latest update installed)
- 512 MB RAM
- G4 Processor or higher (G5 recommended)
- 350 MB of available disk space
- User must have Administrator rights to install and uninstall the application
- Monitor resolution of 1024x768 pixels or higher
- Internet connection required for software update

Compatible Software Supporting DNG Profiles

- Adobe[®] Lightroom[®] 2.0 or newer
- Adobe[®] Camera Raw 4.5 or newer
- Adobe[®] Photoshop[®] CS3 or newer
- Adobe[®] Photoshop[®] Elements 7 or newer
- Adobe[®] Bridge CS3 or newer

For use in a RAW editor

- Any RAW editor with click custom white balance capability

ColorChecker Passport Physical Specifications

Size: 125mm (H) x 90mm (W) x 9mm (T)

Weight: 80 grams or 3 oz

Humidity range: 85% or less, non-condensing

Temperature range for normal use of the case:

32 – 104 degrees Fahrenheit / 0 – 40 degrees Celsius

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