Camera Raw

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Additional code by Mark Hamburg
Additional code by Zalman Stern
Camera Raw 1.0 – February 2003
What is the Camera Raw Default? And Why Should You Care?
Camera Raw Histogram

Shadow Clipping Indicator On showing both green and blue clipping

Blue channel clipping display

Highlight Clipping Indicator On showing red clipping

Red channel clipping display
Camera Raw Histogram

Highlight & Shadow Clipping

Highlight & Shadow Clipping Fixed
Camera Raw Histogram

Saturation Clipping

Saturation Clipping Fixed
Camera Raw Metadata Readouts

**RGB Readouts**
- R: 143
- G: 155
- B: 145

**EXIF Readouts**
- F Stop: f/7.1
- Shutter Speed: 1/400 s
- ISO: 400
- Lens: 17-85@50 mm

ISO
Camera Raw Panels

Basic

Parametric Curve

Point Curve
Camera Raw Panels

Detail

HSL/Grayscale Color

HSL/Grayscale B&W
Camera Raw Panels

Split Toning

Lens Corrections

Camera Calibration
Camera Raw Panels

Presets

- 1Ds-MII-Daylight
- 1Ds-MII-Tungsten
- Clarity +10
- Clarity +15
- Clarity +20
- Clarity +25
- Clarity +30
- Contrast Boost
- Defringe–All
- Defringe–Highlights
- Rebel–xti–Daylight
- Rebel–xti–Tungsten
- Sharpening–High–Frequency–Detail
- Sharpening–Landscape
- Sharpening–Portrait
- Sharpening–Portrait–female
- Split–Tone–Sepia
- Split–Tone–Warm/Cool
- Vibrance +05
- Vibrance +10
- Vibrance +15

New Presets Dialog

- Name: Untitled
- Subset: All Settings
  - White Balance
  - Exposure
  - Recovery
  - Fill Light
  - Blacks
  - Brightness
  - Contrast
  - Clarity
  - Vibrance
  - Saturation
  - Parametric Curve
  - Point Curve
  - Sharpening
  - Luminance Noise Reduction
  - Color Noise Reduction
  - Grayscale Conversion
  - HSL Adjustments
  - Split Toning
  - Chromatic Aberration
  - Lens Vignetting
  - Camera Calibration

- Auto Settings
  - Apply auto tone adjustments
  - Apply auto grayscale mix
Camera Raw Buttons

Camera Raw Hosted By Bridge

- Open Image
- Cancel
- Done

- Open Copy
- Reset
- Done

Option (Alt)

- Open Object
- Reset
- Done

Smart Object
Camera Raw Buttons

Camera Raw Hosted By Photoshop

- Open Image
- Cancel
- Done

- Open Copy
- Reset
- Done

Option (Alt)

- Open Object
- Reset
- Done

Smart Object
Camera Raw Workflow Options

Workflow Options

- Space: ProPhoto RGB
- Depth: 16 Bits/Channel
- Crop Size: 4822 by 3215 (15.5 MP)
- Resolution: 240 pixels/inch

[Check box] Open in Photoshop as Smart Objects

[OK] [Cancel]
### Camera Raw Workflow Options

#### Color Space

- Adobe RGB (1998)
- ColorMatch RGB
- **ProPhoto RGB**
- sRGB IEC61966-2.1

- **Space:** ProPhoto RGB
- **Depth:** 16 bits/Channel
- **Crop Size:** 4822 by 3215 (15.5 MP)
- **Resolution:** 240 pixels/inch

- [ ] Open in Photoshop as Smart Objects
Camera Raw Workflow Options

Color Space with Grayscale

- Adobe RGB (1998)
- ColorMatch RGB
- ProPhoto RGB
- sRGB IEC61966-2.1
- Gray Gamma 1.8
- Gray Gamma 2.2

Space: Gray Gamma 1.8
Depth: 16 bits/Channel
Crop Size: 4822 by 3215 (15.5 MP)
Resolution: 240 pixels/inch

[ ] Open in Photoshop as Smart Objects
Camera Raw Workflow Options

Workflow Options

Space: ProPhoto RGB

Depth: 16 Bits/Channel

Crop Size: 4822 by 3215 (15.5 MP)

Resolution: 240 pixels/inch

Open in Photoshop as Smart Objects

Bit Depth
Camera Raw Workflow Options

Workflow Options

- Space:
  - 1484 by 989 (1.5 MP)
  - 1979 by 1318 (2.6 MP)
  - 2968 by 1979 (5.9 MP)
  - 3957 by 2639 (10.4 MP)

- Depth:

- Crop Size:
  - 4822 by 3215 (15.5 MP)
  - 5936 by 3957 (23.5 MP)

- Resolution: 240 pixels/inch

- Open in Photoshop as Smart Objects

Crop Size
# Camera Raw Workflow Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Space</td>
<td>ProPhoto RGB</td>
</tr>
<tr>
<td>Depth</td>
<td>16 Bits/Channel</td>
</tr>
<tr>
<td>Crop Size</td>
<td>4822 by 3215 (15.5 MP)</td>
</tr>
<tr>
<td>Resolution</td>
<td>240 pixels/inch</td>
</tr>
</tbody>
</table>

- **Units**: pixels/inch

- **Open in Photoshop as Smart Objects**: unchecked
Camera Raw Workflow Options

Workflow Options

- **Space:** ProPhoto RGB
- **Depth:** 16 Bits/Channel
- **Crop Size:** 4822 by 3215 (15.5 MP)
- **Resolution:** 240 pixels/inch

Open in Photoshop as Smart Objects

Open as Smart Object
Camera Raw Toolbar

- Zoom Tool (Z)
- White Balance Tool (I)
- Crop Tool (C)
- Retouch Tool (B)
- Open Preferences Button (⌘K)
- Rotate Clockwise (R)
- Hand Tool (H)
- Color Sampler Tool (S)
- Straighten Tool (A)
- Red Eye Removal (E)
- Rotate Counterclockwise (L)
Camera Raw Preferences

General
- Save image settings in: Sidecar ".xmp" files
- Apply sharpening to: All images

Default Image Settings
- Apply auto tone adjustments
- Apply auto grayscale mix when converting to grayscale
- Make defaults specific to camera serial number
- Make defaults specific to camera ISO setting

Camera Raw Cache
- Maximum Size: 1.0 GB
- Purge Cache
- Select Location: /Users/scheue/Library/Caches/Adobe Camera Raw/

DNG File Handling
- Ignore sidecar ".xmp" files
- Update embedded JPEG previews: Medium Size

JPEG and TIFF Handling
- Always open JPEG files with settings using Camera Raw
- Always open TIFF files with settings using Camera Raw
Camera Raw Preferences
General

General

Save image settings in: \[Sidecar \text{".xmp"} \text{files}\]
Apply sharpening to: \[All \text{images}\]
Camera Raw Preferences

General

Save image settings in: ✔ Sidecar " .xmp " files

Apply sharpening to: All images
Camera Raw Preferences
General

- **Save image settings in:** Sidecar ".xmp" files
- **Apply sharpening to:** All images
  - Preview images only
Camera Raw Preferences
Default Image Settings

- Apply auto tone adjustments
- Apply auto grayscale mix when converting to grayscale
- Make defaults specific to camera serial number
- Make defaults specific to camera ISO setting
Camera Raw Preferences
Default Image Settings

- Apply auto tone adjustments
- Apply auto grayscale mix when converting to grayscale
- Make defaults specific to camera serial number
- Make defaults specific to camera ISO setting
Camera Raw Preferences
Default Image Settings

- [ ] Apply auto tone adjustments
- [x] Apply auto grayscale mix when converting to grayscale
- [x] Make defaults specific to camera serial number
- [x] Make defaults specific to camera ISO setting
Camera Raw Preferences
Camera Raw Cache

Camera Raw Cache

Maximum Size: 1.0 GB

Purge Cache

Select Location... /Users/schewe/Library/Caches/Adobe Camera Raw/
Camera Raw Preferences

DNG File Handling

- Ignore sidecar "xmp" files
- Update embedded JPEG previews: Medium Size
Camera Raw Preferences
DNG File Handling

- Ignore sidecar "xmp" files
- Update embedded JPEG previews: Medium Size
Camera Raw Preferences
DNG File Handling

- Ignore sidecar "xmp" files
- Update embedded JPEG previews: Medium Size, Full Size
Camera Raw Preferences
JPEG and TIFF Handling

JPEG and TIFF Handling

- Always open JPEG files with settings using Camera Raw
- Always open TIFF files with settings using Camera Raw
Camera Raw
Did You Know?

- Scrubby Sliders
- Double-Click Reset
Camera Raw
Did You Know?

Working Indicator
Camera Raw

Did You Know?

Live Shadow Clipping Preview (showing in blue)

Live Highlight Clipping Preview (showing in red)

Highlight/Shadow Clipping Indicators
Camera Raw
Did You Know?

Camera Raw’s Maximum Pixel Size
Camera Raw Did You Know?

Camera Raw’s Maximum Pixel Size

10,000 pixels

9,999 x 9,999
Camera Raw
Did You Know?

Camera Raw Home Page

www.adobe.com/products/photoshop/cameraraw

Camera Raw is Updated 3-4 Times/Year
Camera Raw
Did You Know?

Camera Raw User to User Forum

Visited by Thomas Knoll
(and Jeff Schewe)
Adobe Photoshop Camera Raw

By Bruce Fraser & Jeff Schewe

Camera Raw

By Bruce Fraser & Jeff Schewe