

# Contents

## Preface

<b>1</b>	<b>Introduction</b>	<b>1-1</b>
1.1	Introduction to RAW files or digital negatives	1-1
1.2	How to use this book; how this book is organized	1-2
1.3	Using PCs and Macs	1-3
1.4	Computer configuration	1-3
1.5	What are RAW files?	1-4
	What are the RAW file advantages?	1-5
	Digital camera artifacts	1-10
1.6	The digital negative/slide	1-11
1.7	Some strategic reasoning	1-12
	Which RAW converter to use	1-13
<b>2</b>	<b>Basic Color Management</b>	<b>2-1</b>
2.1	Understanding different color modes	2-2
	RGB color model	2-3
	LAB color model	2-3
	CMYK color model	2-4
	Grayscale mode	2-5
	Color spaces	2-5
2.2	Understanding color management	2-6
	Why you need to understand color management	2-6
	ICC-profiles	2-7
	What is a color management system?	2-8
	Color working spaces	2-10
	Visualization of color spaces	2-12
	Color space mapping	2-14
	Creating device profiles	2-16
	Camera profiles	2-17
	Printer profiles	2-17
2.3	Profiling your monitor	2-18
	Calibration by eye	2-18
	Hardware based calibration	2-18
	Calibration settings	2-19
	Calibrating and profiling using Eye-One Display 2	2-19

2.4	Photoshop color and monitor profile settings	2-23
2.5	Installing and uninstalling profiles	2-27
2.6	Sanity-check	2-29
2.7	Soft-proofing and gamut warning	2-29
<b>3</b>	<b>Basic RAW workflow</b>	<b>3-1</b>
3.1	Setup the camera for RAW file photographs	3-2
	Set your camera to RAW mode	3-2
	Exposure, Exposure, Exposure	3-2
	Optimize exposure using your camera's histogram	3-3
	"Expose to the right" rule	3-4
	Color channel clipping	3-5
	The "before/live" histogram	3-6
	Correct white balance (WB) for optimal color quality	3-7
	Understand objective and subjective white balance	3-8
	Adjust your camera's sensitivity: selecting the right ISO	3-8
3.2	Camera to computer: enter the digital darkroom	3-9
	Manage your image storage	3-9
	Computer transfer and organizing your photos	3-9
	Renaming	3-10
	Securing your valuable photos: Backup	3-11
3.4	Browse and evaluate your RAW files	3-12
3.5	Essential image corrections	3-14
	White balance (WB)	3-14
	Tonality	3-17
	Exposure, Contrast & Brightness	3-18
	Adaptive tonality controls	3-19
	Color corrections	3-24
3.6	Advanced image corrections	3-24
3.7	Extra workflow support	3-25
3.8	RAW converters and 'good' colors?	3-25

<b>Adobe Camera Raw</b>	<b>4-1</b>
4.1 Quick ACR real-life workflow	4-3
4.2 Browse and evaluate your RAW images with “Bridge”	4-15
4.3 Adobe Camera Raw 3.x user-interface overview	4-18
Workflow options	4-21
Camera Raw’s main image correction controls	4-22
How to final process the images	4-32
Saving and reusing settings	4-34
Recording Adobe Camera Raw settings	4-35
Batch conversion	4-36
Advanced image corrections	4-37
4.4 Extra workflow support	4-38
4.5 RAW files embedded in Photoshop “Smart Objects”	4-40
Creating a Smart Object layer containing a RAW file	4-40
Exporting RAW files from a Smart Object	4-44
<b>5 RawShooter (RSP and RSE)</b>	<b>5-1</b>
5.1 Quick RawShooter real-life workflow	5-2
Browse your RAW files using the RSP RAW file browser	5-3
Tune tonality in RS	5-7
5.2 RawShooter features	5-11
5.3 Inspect and browse your files with RSP	5-13
Deletion workflow	5-18
5.4 Image corrections	5-18
The “Correct” toolbar:	5-18
Setting white balance (WB)	5-19
Exposure and tonality	5-20
Saturation, Hue, Vibrance and Color Balance	5-29
Sharpness and Detail extraction	5-30
Noise reduction	5-32
Batch processing	5-32
Slide show	5-33
5.5 Advanced image corrections	5-34
5.6 Extra workflow support	5-36
Using the RSP Downloader	5-40
Some useful keyboard shortcuts	5-42

<b>6</b>	<b>More RAW Converters</b>	<b>6-1</b>
6.1	Phase One's Capture One DSLR (Capture One)	6-2
	Capture One Setup	6-3
	Capture One RAW file browser	6-5
	Image Processing	6-6
	Gray/White Balance (WB)	6-7
	Exposure	6-8
	Tone Curves	6-8
	Focus and Sharpening	6-9
	Develop tab	6-9
	What's More?	6-10
6.2	Bibble version 4 (B4)	6-11
	Bibble Setup	6-12
	Main features of Bibble 4.x	6-13
	Picture Options	6-15
	Workflow with Bibble 4	6-17
6.3	Canon Digital Photo Professional (DPP)	6-19
	Setup	6-19
	DPP – main features	6-21
	Saving converted files	6-26
6.4	Nikon Capture	6-28
	Setup	6-29
	Main features	6-30
	Advanced RAW	6-30
	White Balance (WB)	6-32
	Save and load settings	6-33
6.5	Iridient Digital: RAW Developer 1.4	6-34
	Input Tab	6-35
	B&W Tab	6-36
	Curves	6-37
	Adjustment Tab	6-37
	Sharpen/Noise Removal Tab	6-38
	Output Tab	6-38
	Batch Settings	6-39
	Extra features	6-39
	Conclusion	6-40

<b>7</b>	<b>Apple's Aperture</b>	<b>7-1</b>
7.1	Aperture is an integrated application	7-2
7.2	Aperture's file formats	7-3
7.3	New concepts in Aperture	7-4
7.4	Aperture Setup	7-7
7.5	Workflow	7-9
	Image adjustments	7-10
	Workspace adaption	7-12
7.6	Structuring your images	7-13
7.7	Printing images	7-14
7.8	Exporting images	7-15
7.9	Searching	7-16
7.10	Conclusion	7-18
<b>8</b>	<b>Adobe Lightroom</b>	<b>8-1</b>
8.1	Lightroom is an integrated application	8-2
	Supported image formats	8-4
	Setting up Lightroom	8-4
8.2	Photo workflow in Lightroom	8-5
	Photo download and import	8-5
	Photo organization	8-7
8.3	Photo editing – Develop mode	8-11
	Develop	8-12
8.4	Slideshow	8-17
8.5	Printing	8-19
8.6	Image organization once more	8-20
8.7	More Lightroom features	8-21
8.7	First conclusion	8-23

<b>9</b>	<b>Perfecting Images</b>	<b>9-1</b>
9.1	Do you really need to bother with this?	9-1
9.2	The art of sharpening	9-3
	USM (Unsharp Mask)	9-4
	How Photoshop “Unsharp Mask” works	9-4
	The two step approach	9-7
	Photoshop CS2: Smarter Sharpen	9-8
	Other Sharpening Tools	9-8
9.3	Noise reduction	9-9
	Photoshop CS2: Reduce Noise	9-10
	Noise is in the shadows	9-10
	Other Useful noise removal filters	9-11
9.4	Reduce chromatic aberration (CA) and purple fringing	9-11
	Heal chromatic aberration (CA)	9-11
	Photoshop CS2: Lens Correction	9-13
	Heal purple fringing	9-13
9.5	Distortion	9-17
	Profile-based corrections	9-17
	Photoshop CS2: Lens Correction	9-20
9.6	Vignetting	9-21
9.7	Correcting tilt and perspective	9-22
	Rotation (correcting tilt)	9-22
	Perspective corrections	9-22
9.8	Removing dust spots	9-24
	Patch tool	9-26
	Using Selection with the Healing Brush	9-27
<b>10</b>	<b>Batch Processing techniques for RAW files</b>	<b>10-1</b>
10.1	Basic batch processing pattern	10-2
10.2	Batch Processing with Adobe Camera Raw	10-5
10.3	Smooth Batch Processing	10-13
10.4	Batch Processing with Capture One Pro	10-14
10.4	Batch Processing with RawShooter	10-16
6.3	Creating proof prints with RSP and CS2	10-19
<b>11</b>	<b>DNG – Digital Negative Format</b>	<b>11-1</b>
11.1	DNG – its potential	11-1
11.2	Usage of the Adobe DNG Converter	11-5
11.3	Advantages and disadvantages of converting to DNG	11-8

<b>12</b>	<b>Metadata</b>	<b>12-1</b>
12.1	Metadata for Photographs	12-1
12.2	Metadata usage in Adobe Camera Raw and Bridge	12-5
12.3	Retrieving files by searching for metadata	12-9
<b>13</b>	<b>Profiling and calibrating for your RAW Converter</b>	<b>13-1</b>
13.1	The problem with camera profiles	13-1
13.2	Camera profiling using Eye-One Photo and ProfileMaker	13-3
13.3	Camera profiling using InCamera	13-8
13.4	Shooting for a neutral gray	13-10
13.5	Calibrating Adobe Camera Raw	13-11
<b>14</b>	<b>Creating B&amp;W photos from color images</b>	<b>14-1</b>
14.1	Turn color images into Black&White	14-1
	B & W workflow with several RAW converters	14-3
	Color conversion techniques	14-3
14.2	B & W with Adobe Camera Raw	14-4
14.3	B & W with Capture One DSLR	14-7
14.4	B & W with Raw Shooter	14-12
14.5	B&W images with RAW Developer	14-13
14.6	B&W workflow with Aperture	14-14
<b>A</b>	<b>Glossary /Abbreviations</b>	
<b>B</b>	<b>Resources</b>	
B.1	Recommended Books	B-1
B.2	Useful resources in the Internet	B-2
<b>C</b>	<b>Index</b>	<b>C-1</b>

