



How Digital Photography Works (2nd Edition)

Ron White, Timothy Edward Downs

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A full-color, illustrated adventure into the high-tech wonders inside your digital camera by the author/illustrator team that created the bestselling *How Computers Work*.

With clear and simple explanations that say, “You, too, can understand this,” and brilliant, full-color illustrations, *How Digital Photography Works, Second Edition*, gives you detailed information on the hidden workings of digital cameras, professional picture-taking techniques, and even photo-editing software. Some of the topics covered in this groundbreaking book include:

- How Digital Viewfinders Frame Your Pictures
- How Twin Lens Cameras and Tilt-and-Shift Lenses Change the Rules
- How Cameras Focus on Moving Targets
- How Exposure Systems Balance Aperture and Shutter
- How Electronic Flashes Create a Burst of Light
- How Studio Lighting Creates a Perfect Lighting Environment
- How Color Calibration Makes What You See on the Screen Match What You See on Paper
- How Your Camera’s Microprocessor Manipulates Images
- How Photoshop Expands a Photographer’s Artistry

Introduction

Part 1: Getting to Know Digital Cameras

Chapter 1 The Workings of a Digital Camera

Chapter 2 Inside Digital Video Cameras

Part 2: How Digital Cameras Capture Images

Chapter 3 How Lenses Work

Chapter 4 How Light Plays Tricks on Perception

Chapter 5 How Digital Exposure Sifts, Measures, and Slices Light

Chapter 6 How Technology Lets There Be Light

Chapter 7 How Light Becomes Data

Chapter 8 How New Tech Changes Photography

Part 3: How the Digital Darkroom Works

Chapter 9 How Software Changes Pixels by the Numbers

Chapter 10 How Digital Retouching Rescues Family Heirlooms

Chapter 11 How the Digital Darkroom Makes Good Photos into Great Fantasies

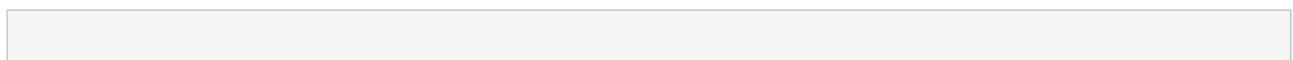
Part 4: How Digital Print-Making Works


Chapter 12 How Computers and Printers Create Photographs

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