

Hitachi Digital Camera User Manual

An introduction to color in three-dimensional image processing and the emerging area of multi-spectral image processing The importance of color information in digital image processing is greater than ever. However, the transition from scalar to vector-valued image functions has not yet been

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generally covered in most textbooks. Now, Digital Color Image Processing fills this pressing need with a detailed introduction to this important topic. In four comprehensive sections, this book covers: The fundamentals and requirements for color image processing from a vector-valued viewpoint Techniques for preprocessing color images Three-dimensional scene analysis using color information, as well as the emerging

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*area of multi-spectral
imaging Applications of
color image processing,
presented via the
examination of two case
studies In addition to
introducing readers to
important new
technologies in the
field, Digital Color
Image Processing also
contains novel topics
such as: techniques for
improving three-
dimensional
reconstruction, three-
dimensional computer
vision, and emerging
areas of safety and*

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security applications in luggage inspection and video surveillance of high-security facilities. Complete with full-color illustrations and two applications chapters, Digital Color Image Processing is the only book that covers the breadth of the subject under one convenient cover. It is written at a level that is accessible for first- and second-year graduate students in electrical and computer engineering

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and computer science courses, and that is also appropriate for researchers who wish to extend their knowledge in the area of color image processing.

A comprehensive and practical analysis and overview of the imaging chain through acquisition, processing and display
The Handbook of Digital Imaging provides a coherent overview of the imaging science amalgam, focusing on the capture, storage and display of

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images. The volumes are arranged thematically to provide a seamless analysis of the imaging chain from source (image acquisition) to destination (image print/display). The coverage is planned to have a very practical orientation to provide a comprehensive source of information for practicing engineers designing and developing modern digital imaging systems. The content will be drawn from all aspects of digital

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imaging including optics, sensors, quality, control, colour encoding and decoding, compression, projection and display. • Contains approximately 50, highly illustrated articles (ranging from 20-40 pages), printed in full colour throughout Comprehensive 3-volume set, also available on Wiley Online Library. • Over 50 Contributors, with contributors from Europe, US and Asia. Contributors are both

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*and from academia and
industry*The 3 volumes
will be organized
thematically for
enhanced

usability:Volume 1:

*Image Capture and
Storage• Image Capture*

and Storage Volume 2:

Image Display and

Reproduction• Image

Display and Projection•

Hardcopy Technology•

Halftoning and Physical

Evaluation• Models for

Halftone

ReproductionVolume 3:

Imaging System

Applications• Media

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*Imaging • Remote Imaging •
Medical and Forensic
Imaging* Ideal for
engineers and designers
in the dynamic global
imaging and display
industries

Popular Mechanics
inspires, instructs and
influences readers to
help them master the
modern world. Whether
it's practical DIY home-
improvement tips,
gadgets and digital
technology, information
on the newest cars or
the latest breakthroughs
in science -- PM is the

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*ultimate guide to our
high-tech lifestyle.
Digital Imaging, Theory
and Applications,
History, and Science
The Directory of Video,
Multimedia & Audio-
visual Products
The Innovation in
Computing Companion
JEE.*

PHOTOVIDEOi

*Provides information on how to
upgrade, maintain, and
troubleshoot the hardware of
personal computers, discussing
the differences among them
as well as their various
configuration options.*

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Maximum PC is the magazine that every computer fanatic, PC gamer or content creator must read. Each and every issue is packed with punishing product reviews, insightful and innovative how-to stories and the illuminating technical articles that enthusiasts crave. Includes the history and historical processes of photography, contemporary applications, and the new and evolving digital technologies.

JEE, Journal of Electronic Engineering
Digital Color Image Processing
Hitachi Review
FDI in China

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Upgrading and Repairing PCs

Singapore's leading tech magazine gives its readers the power to decide with its informative articles and in-depth reviews.

8051 Microcontroller: Internals, Instructions, Programming and Interfacing through simple language, excellent graphical annotations and a large variety of solved examples. This book includes internal architecture of 8051, instructions with examples

The Directory of Video,
Multimedia & Audio-visual
Products PC Mag

Digital Sub-Editing and Design
The Hardware/Software

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Interface, Third Edition

PC Mag

NASA Tech Briefs

AEI

Plunkett's InfoTech Industry Almanac presents a complete analysis of the technology business, including the convergence of hardware, software, entertainment and telecommunications. This market research tool includes our analysis of the major trends affecting the industry, from the soaring need for memory, to supercomputing, open source systems such as Linux, cloud computing and the role of nanotechnology in computers. In addition, we provide

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major statistical tables covering the industry, from computer sector revenues to broadband subscribers to semiconductor industry production. No other source provides this book's easy-to-understand comparisons of growth, expenditures, technologies, imports/exports, corporations, research and other vital subjects. The corporate profile section provides in-depth, one-page profiles on each of the top 500 InfoTech companies. We have used our massive databases to provide you with unique, objective analysis of the largest and most exciting companies in:

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Computer Hardware, Computer Software, Internet Services, E-Commerce, Networking, Semiconductors, Memory, Storage, Information Management and Data Processing. We've been working harder than ever to gather data on all the latest trends in information technology. Our research effort includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies. Purchasers of the printed book or PDF version may receive a free CD-ROM database of the corporate profiles, enabling export of vital corporate data for

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mail merge and other uses. This excellent book covers editing in the digital age, demonstrating the tools needed for effective text editing. Learn how to write powerful headlines and captions, and how to edit body text quickly and cleanly. It also concentrates on design in the digital environment, introducing typography and the related issues of readability and legibility. The skills of picture editing are explored, including image selection, cropping, manipulation and the ethics involved. These core skills and methods are then applied to the World

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Wide Web. Recent research into how people navigate Web pages is considered, and recommends ways to write more effectively for the online medium. The first section concentrates on editing in the digital age, demonstrating the tools needed for effective text editing. Dr Quinn shows how to write powerful headlines and captions, and how to edit body text quickly and cleanly. The middle section concentrates on design in the digital environment. Chapter five introduces typography and the related issues of readability and legibility. Chapter six covers the principles of

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design and how they can be applied to print and electronic publications. Chapter seven looks at the skills of picture editing, including image selection, cropping, manipulation and the ethics involved. Chapter eight investigates other forms of visual presentation such as diagrams, logos, maps and cartoons. In the final section, these core skills and methods are applied to the World Wide Web. Chapter nine considers recent research into how people navigate Web pages, and recommends ways to write more effectively for the online medium. Chapter ten examines how the principles

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of print design can (and cannot) be applied to Web pages.

This encyclopedic reference provides a concise and engaging overview of the groundbreaking inventions and conceptual innovations that have shaped the field of computing, and the technology that runs the modern world. Each alphabetically-ordered entry presents a brief account of a pivotal innovation and the great minds behind it, selected from a wide range of diverse topics. Topics and features: Describes the development of Babbage's computing machines, Leibniz's binary arithmetic,

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Boole's symbolic logic, and Von Neumann architecture
Reviews a range of historical analog and digital computers, significant mainframes and minicomputers, and pioneering home and personal computers Discusses a selection of programming languages and operating systems, along with key concepts in software engineering and commercial computing Examines the invention of the transistor, the integrated circuit, and the microprocessor Relates the history of such developments in personal computing as the mouse, the GUI, Atari video games, and

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Microsoft Office Surveys innovations in communications, covering mobile phones, WiFi, the Internet and World Wide Web, e-commerce, smartphones, social media, and GPS Presents coverage of topics on artificial intelligence, the ATM, digital photography and digital music, robotics, and Wikipedia Contains self-test quizzes and a helpful glossary This enjoyable compendium will appeal to the general reader curious about the intellectual milestones that led to the digital age, as well as to the student of computer science seeking a primer on the history of their field.

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Dr. Gerard O'Regan is a CMMI software process improvement consultant with research interests including software quality and software process improvement, mathematical approaches to software quality, and the history of computing. He is the author of such Springer titles as World of Computing, Concise Guide to Formal Methods, Concise Guide to Software Engineering, and Guide to Discrete Mathematics. A Compendium of Select, Pivotal Inventions
Absolute Beginner's Guide to Tablet PCs
Computer Organization and Design, Revised Printing, Third Edition

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Light and Video Microscopy
Plunkett's Outsourcing &
Offshoring Industry Almanac

The purpose of this book is to provide the most comprehensive, easy-to-use, and informative guide on light microscopy. Light and Video Microscopy will prepare the reader for the accurate interpretation of an image and understanding of the living cell. With the presentation of geometrical optics, it will assist the reader in understanding image formation and light movement within the microscope. It also provides an explanation of the basic modes of light microscopy and the components of modern electronic imaging systems and guides the reader in determining the physicochemical information of living and developing cells, which influence interpretation.

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Brings together mathematics, physics, and biology to provide a broad and deep understanding of the light microscope Clearly develops all ideas from historical and logical foundations Laboratory exercises included to assist the reader with practical applications Microscope discussions include: bright field microscope, dark field microscope, oblique illumination, phase-contrast microscope, photomicrography, fluorescence microscope, polarization microscope, interference microscope, differential interference microscope, and modulation contrast microscope

Market research guide to the outsourcing and offshoring industry ?
??
????????????????? a tool for strategic planning, competitive intelligence,

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employment searches or financial research. Contains trends, statistical tables, and an industry glossary.

Over 300 one page profiles of Outsourcing & Offshoring Industry Firms - includes addresses, phone numbers, executive names.

A local Singaporean magazine dedicated to photography and videography.

The Independent Guide to IBM-standard Personal Computing
Asia Electronics Industry
Computer Organization and Design
PC Magazine

Journal of Electronic Engineering

This book examines teachers' use of the major instructional technologies over the last century - from the days of silent film, radio, and slide shows through to the modern interactive whiteboard and the Web.

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The book explores the reasons why so few teachers have used these technologies and why, even in today's digital world, the most commonly used classroom tools are the pen, paper, and chalkboard. The book provides decision-makers with an invaluable insight into the million dollar question: What is required to get teachers using the appropriate instructional technology as a normal part of everyday teaching? Without question, student learning is enhanced by adopting these new technologies. Until now, research on why the majority of teachers use only the most basic tools in the classroom has been scarce. The Use of Instructional Technology in Schools examines this phenomenon and, most importantly, identifies what is required to achieve teachers'

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universal acceptance of instructional technologies.

The Complete Guide to Digital Cameras will appeal to anyone who has recently purchased or is considering an investment in a digital camera. Sections include:

introduction to digital cameras, tips on use, available options, how to transfer images from camera to computer, image manipulation along with model comparisons and index of currently available cameras.

Together the book and CD-ROM will answer questions you have about digital cameras, enable you to make intelligent buying decisions, and help you use your camera to its full potential. No camera purchase is complete without this informative guide.

What ' s New in the Third Edition,

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Revised Printing The same great book gets better! This revised printing features all of the original content along with these additional features:

- Appendix A (Assemblers, Linkers, and the SPIM Simulator) has been moved from the CD-ROM into the printed book
 - Corrections and bug fixes
- Third Edition features New pedagogical features •

Understanding Program Performance

- Analyzes key performance issues from the programmer ' s perspective

- Check Yourself Questions - Helps students assess their understanding of key points of a section •

Computers In the Real World -

Illustrates the diversity of applications of computing technology beyond traditional desktop and servers • For

More Practice - Provides students with additional problems they can

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tackle • In More Depth - Presents new information and challenging exercises for the advanced student

New reference features •

Highlighted glossary terms and definitions appear on the book page, as bold-faced entries in the index, and as a separate and searchable reference on the CD. • A complete index of the material in the book and on the CD appears in the printed index and the CD includes a fully searchable version of the same index.

• Historical Perspectives and Further Readings have been updated and expanded to include the history of software R&D. • CD-Library provides materials collected from the web which directly support the text. In addition to thoroughly updating every aspect of the text to reflect the most current computing technology,

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the third edition • Uses standard 32-bit MIPS 32 as the primary teaching ISA. • Presents the assembler-to-HLL translations in both C and Java. • Highlights the latest developments in architecture in Real Stuff sections: - Intel IA-32 - Power PC 604 - Google 's PC cluster - Pentium P4 - SPEC CPU2000 benchmark suite for processors - SPEC Web99 benchmark for web servers - EEMBC benchmark for embedded systems - AMD Opteron memory hierarchy - AMD vs. IA-64 New support for distinct course goals Many of the adopters who have used our book throughout its two editions are refining their courses with a greater hardware or software focus. We have provided new material to support these course goals: New material to support a Hardware Focus • Using

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logic design conventions • Designing with hardware description languages • Advanced pipelining • Designing with FPGAs • HDL simulators and tutorials • Xilinx CAD tools New material to support a Software Focus • How compilers work • How to optimize compilers • How to implement object oriented languages • MIPS simulator and tutorial • History sections on programming languages, compilers, operating systems and databases On the CD • NEW: Search function to search for content on both the CD-ROM and the printed text • CD-Bars: Full length sections that are introduced in the book and presented on the CD • CD-Appendixes: Appendixes B-D • CD-Library: Materials collected from the web which directly support the text • CD-

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Exercises: For More Practice provides exercises and solutions for self-study

- In More Depth presents new information and challenging exercises for the advanced or curious student
- Glossary: Terms that are defined in the text are collected in this searchable reference
- Further Reading: References are organized by the chapter they support
- Software: HDL simulators, MIPS simulators, and FPGA design tools
- Tutorials: SPIM, Verilog, and VHDL
- Additional Support: Processor Models, Labs, Homeworks, Index covering the book and CD contents

Instructor Support

First International Symposium, HUC'99, Karlsruhe, Germany, September 27-29, 1999, Proceedings

HWM

The Hardware/Software Interface

Japan Electronics Buyers' Guide

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By the early 21st century, the FDI (Foreign Direct Investment) sector had carved out a major niche in the Chinese economy and exerted a remarkable impact on the nation's economic growth, industrial restructuring and its degree of integration with the global economy. The major role of the FDI sector manifests itself in many aspects, such as serving as a source of funds, improving investment efficiency, boosting output, introducing advanced technology and research capacities, ameliorating the industrial structure, expanding exports, upgrading the export commodity mix, and promoting economic restructuring. All these are described and analysed in great detail in this book. The last few chapters of

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the book feature the author's prognostications of the key areas where FDI is to be solicited and the salient features of what China will do in this respect. FDI will continue its massive flow into the Chinese manufacturing industry and play an active role in turning China into a global manufacturing centre for a number of industries. The FDI inflow in the service industry will surge in a sustained fashion, thereby raising its efficiency and improving the services offered. In the last section of the book the author presents her idea about the emphasis and trends of the Chinese government when adapting its policies governing foreign investment to an increasingly open economy, and ponders what administrative policies

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and measures will be taken in this regard.

A technical history of television covers significant developments from 1942 to 2000, including television during World War II, the change from helical to high band technology, and the rise of electronic journalism.

This best selling text on computer organization has been thoroughly updated to reflect the newest technologies. Examples highlight the latest processor designs, benchmarking standards, languages and tools. As with previous editions, a MIPS processor is the core used to present the fundamentals of hardware technologies at work in a computer system. The book presents an entire MIPS instruction set—instruction by

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instruction—the fundamentals of assembly language, computer arithmetic, pipelining, memory hierarchies and I/O. A new aspect of the third edition is the explicit connection between program performance and CPU performance. The authors show how hardware and software components--such as the specific algorithm, programming language, compiler, ISA and processor implementation--impact program performance. Throughout the book a new feature focusing on program performance describes how to search for bottlenecks and improve performance in various parts of the system. The book digs deeper into the hardware/software interface, presenting a complete view of the

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function of the programming language and compiler--crucial for understanding computer organization. A CD provides a toolkit of simulators and compilers along with tutorials for using them. For instructor resources click on the grey "companion site" button found on the right side of this page. This new edition represents a major revision. New to this edition: *

- * Entire Text has been updated to reflect new technology
- * 70% new exercises.
- * Includes a CD loaded with software, projects and exercises to support courses using a number of tools
- * A new interior design presents defined terms in the margin for quick reference
- * A new feature, "Understanding Program Performance" focuses on performance from the programmer's

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perspective * Two sets of exercises and solutions, "For More Practice" and "In More Depth," are included on the CD

* "Check Yourself" questions help students check their understanding of major concepts * "Computers In the Real World" feature illustrates the diversity of uses for information technology * More detail below...

Contributions to Growth,
Restructuring, and Competitiveness
Popular Mechanics

Handheld and Ubiquitous Computing
The Use of Instructional Technology in
Schools

Lessons to be Learned

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis

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and practical solutions help you make better buying decisions and get more from technology.

Discusses tasks that can be performed with the Tablet PC, peripherals that can be used to control it, and how it can be used in conjunction with Microsoft Office applications.

Truly personal handheld and wearable technologies should be small and unobtrusive and allow access to information and computing most of the time and in most circumstance.

Complimentary, environment-based technologies make artifacts of our surrounding world computationally accessible and facilitate use of everyday environments as a ubiquitous computing interface. The International Symposium on Handheld and Ubiquitous Computing, held for the first time in September 1999, was initiated to investigate links and

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synergies in these developments, and to relate advances in personal technologies to those in environment-based technologies. The HUC 99 Symposium was organised by the University of Karlsruhe, in particular by the Telecooperation Office (TecO) of the Institute for Telematics, in close collaboration with ZKM Karlsruhe, which generously hosted the event in its truly inspiring Center for Arts and Media Technology. The symposium was supported by the Association of Computing Machinery (ACM) and the German Computer Society (Gesellschaft für Informatik, GI) and held in cooperation with a number of special interest groups of these scientific societies. HUC 99 attracted a large number of paper submissions, from which the international programme committee selected 23 high-quality contributions for presentation at the symposium and for inclusion in these

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proceedings. In addition, posters were solicited to provide an outlet for novel ideas and late-breaking results; selected posters are also included with these proceedings. The technical programme was further complemented by four invited keynote addresses, and two panel sessions.

The Focal Encyclopedia of Photography

The Video Guide

The Only Comprehensive Guide to

InfoTech Companies And Trends

Maximum PC

Complete Guide to Digital Cameras