

1 4 Inch Vga Cmos Digital Image Sensor

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Smart CMOS Image Sensors and Applications

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Smart CMOS Image Sensors and Applications CMOS Analog and Mixed-Signal Circuit Design

Sensor technologies play a large part in modern life, as they are present in things like security systems, digital cameras, smartphones, and motion sensors. While these devices are always evolving, research is being done to further develop this technology to help detect and analyze threats, perform in-depth inspections, and perform tracking services. Optoelectronics in Machine Vision-Based Theories and Applications provides innovative insights on theories and applications of optoelectronics in machine vision-based systems. It also covers topics such as applications of unmanned aerial vehicle, autonomous and mobile robots, medical scanning, industrial

applications, agriculture, and structural health monitoring. This publication is a vital reference source for engineers, technology developers, academicians, researchers, and advanced-level students seeking emerging research on sensor technologies and machine vision.

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Revised and expanded for this new edition, Smart CMOS Image Sensors and Applications, Second Edition is the only book available devoted to smart CMOS image sensors and applications. The book describes the fundamentals of CMOS image sensors and optoelectronic device physics, and introduces typical CMOS image sensor structures, such as the active pixel

sensor (APS). Also included are the functions and materials of smart CMOS image sensors and present examples of smart imaging. Various applications of smart CMOS image sensors are also discussed. Several appendices supply a range of information on constants, illuminance, MOSFET characteristics, and optical resolution. Expansion of smart materials, smart imaging and applications, including biotechnology and optical wireless communication, are included. Features

- Covers the fundamentals and applications including smart materials, smart imaging, and various applications
- Includes comprehensive references
- Discusses a wide variety of applications of smart CMOS image sensors including biotechnology and optical wireless communication
- Revised and expanded to include the state of the art of smart image sensors

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The acquisition and interpretation of images is a central capability in almost all scientific and technological domains. In particular, the acquisition of electromagnetic radiation, in the form of visible light, UV, infrared, X-ray, etc. is of enormous practical importance. The ultimate sensitivity in electronic imaging is the detection of individual photons. With this book, the first comprehensive review of all aspects of single-photon electronic imaging has been created. Topics include theoretical basics, semiconductor fabrication, single-photon detection principles, imager design and applications of different spectral domains. Today, the solid-state fabrication capabilities for several types of image sensors has advanced to a point, where uncooled single-photon electronic imaging will soon become a consumer product. This book is giving a specialist's view from different domains to the forthcoming "single-photon imaging" revolution. The various aspects of single-photon imaging are treated by internationally renowned, leading scientists and technologists who have all pioneered their respective fields.

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Optoelectronics Materials and Devices follows the Optoelectronics Books II and III published in 2011 and 2013, as part of the InTech collection of international works on optoelectronics. Accordingly, as with the first two books of the collection, this book covers recent achievements by specialists around the world. The growing number of countries participating in this endeavor as well as joint participation of the US and Moldova scientists in this edition testifies to the unifying effect of science. An interested reader will find in the book the description of properties and applications employing organic and inorganic materials, as well as the methods of fabrication and analysis of operation and regions of application of modern optoelectronic devices.

Popular Photography IGI Global

CompTIA A+ 220-701 and 220-702 Exam Cram, Fifth Edition, is the perfect study guide to help you pass CompTIA's 220-701 and 220-702 versions of the A+ exams. It provides coverage and practice questions for every exam topic. The book contains an extensive set of practice questions, including 250 printed questions in three practice exams, while the CD-ROM test engine provides real-time practice and feedback with an additional 200 questions. This is the eBook version of the print title. Access to

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- Understand PC components, including motherboards, processors, memory, power, storage, audio, video, and I/O devices
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- Install and configure Windows 7, Windows Vista, and other Windows operating systems
- Use Windows utilities to troubleshoot and fix operating system problems
- Understand essential networking technologies, devices, protocols, cabling, and connections
- Set up small office/home office networks, including Internet and Wi-Fi connections
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- Secure computers and networks, identify security problems, and eliminate viruses and malware
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- Perform essential preventive maintenance
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Optoelectronics in Machine Vision-Based Theories and Applications CRC Press

The Flip Mino and MinoHD are the best-selling family of affordable and simple-to-use digital camcorders in the U.S. Since its launch in 2007, Flip Video has sold over 1.5 million camcorders. The Flip MinoHD is the world's smallest high definition camcorder at just over three oz. The MinoHD records up to 60 minutes of HD video and comes along with FlipShare software --this software allows Flip owners to plug the camcorder's signature flip-out USB arm into any computer for easy drag-and-drop video organizing, editing and sharing on YouTube, MySpace, AOL Video or via email. Loaded with plenty of tips and techniques, the Flip Mino Pocket Guide shows readers how to effectively capture video and organize and edit the footage for optimal playback. All Flip models are covered including Flip Mino, Flip MinoHD, Flip Ultra, and Flip Video.

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CMOS Analog and Mixed-Signal Circuit Design CRC Press

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Sensor technologies play a large part in modern life as they are present in security systems, digital cameras, smartphones, and motion sensors. While these devices are always evolving, research is being done to further develop this technology to help detect and analyze threats, perform in-depth inspections, and perform tracking services. Developing and Applying Optoelectronics in Machine Vision evaluates emergent research

and theoretical concepts in scanning devices and 3D reconstruction technologies being used to measure their environment. Examining the development of the utilization of machine vision practices and research, optoelectronic devices, and sensor technologies, this book is ideally suited for academics, researchers, students, engineers, and technology developers.

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PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. [Image Sensors and Signal Processing for Digital Still Cameras](#)
This book describes the newest implementations of integrated photodiodes fabricated in nanometer standard CMOS technologies. It also includes the required fundamentals, the state-of-the-art, and the design of high-performance laser drivers, transimpedance amplifiers, equalizers, and limiting amplifiers fabricated in nanometer CMOS technologies. This book shows the newest results for the performance of integrated optical receivers, laser drivers, modulator drivers and optical sensors in nanometer standard CMOS technologies. Nanometer CMOS

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technologies rapidly advanced, enabling the implementation of integrated optical receivers for high data rates of several Giga-bits per second and of high-pixel count optical imagers and sensors. In particular, low cost silicon CMOS optoelectronic integrated circuits became very attractive because they can be extensively applied to short-distance optical communications, such as local area network, chip-to-chip and board-to-board interconnects as well as to imaging and medical sensors.

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