

CHARLES S. SWARTZ

Understanding DIGITAL CINEMA

A Professional Handbook



Understanding Digital Cinema Understanding Digital Cinema

Charles S. Swartz

Understanding Digital Cinema Understanding Digital Cinema:

Digital Cinema Brian McKernan, 2005-04-30 The first complete overview of digital cinema technology clearly detailing how each phase of the moviemaking process shooting postproduction delivery and exhibition are changed by digital technology With its huge cost saving potential digital cinema is the biggest thing to happen to the movies since sound Includes digital Cinematography how to photograph and shoot in digital and how it s different from film plus Nonlinear Editing software basic techniques cost savings Understanding Digital Cinema Charles S. Swartz, 2005 UNDERSTANDING DIGITAL CINEMA A PROFESSIONAL HANDBOOK is a comprehensive resource on all aspects of finishing distributing and displaying film digitally For technical professionals as well as non technical decision makers the book is a detailed exploration of every component of the process from mastering to theater management An overview of digital cinema system requirements Post production work flow Color in digital cinema The digital cinema mastering process Fundamentals of compression Security Basics of audio Digital distribution Digital projection technology Theater systems The international perspective Views from Europe Asia and Latin America A realistic assessment of the future of digital cinema With contributions by Richard Crudo President American Society of Cinematographers Leon Silverman Executive Vice President Laser Pacific Media Corporation Charles Poynton Color Scientist Chris Carey Senior Vice President Studio New Technology The Walt Disney Studios Bob Lambert Corporate Senior Vice President New Technology New Media The Walt Disney Company Bill Kinder Pixar Animation Studios Glenn Kennel DLP Cinema Peter Symes Manager Advanced Technology Thomson Broadcast Media Solutions Robert Schumann President Cinea Inc A Subsidiary of Dolby Labs David Gray Vice President Production Services Dolby Laboratories Inc Darcy Antonellis Executive Vice President Distribution and Technology Operations Warner Bros Technical Operations Inc and Senior Vice President Worldwide Anti Piracy Operations Warner Bros Entertainment Inc Matt Cowan Principal and Founder Entertainment Technology Consultants Loren Nielsen Principal and Founder Entertainment Technology Consultants Michael Karagosian Partner Karagosian MacCalla Partners KMP Peter Wilson Vice President Display Technologies Snell and Wilcox Ltd Patrick Von Sychowski Senior Analyst Screen Digest Wendy Aylsworth Vice President of Technology Warner Bros Technical Operations Inc The European Digital Cinema Report Elisabetta Brunella, Martin Kanzler, European Audiovisual Observatory, 2011 Accompanied by Addendum full digital screen data 2011 3 p **Digital Cinematography** David Stump, 2014-03-21 First published in 2014 With the shift from film to digital a new view of the future of cinematography has emerged Today s successful cinematographer must be equal parts artist technician and business person The cinematographer needs to master the arts of lighting composition framing and other aesthetic considerations as well as the technology of digital cameras recorders and workflows and must know how to choose the right tools within their budget to get the job done David Stump's Digital Cinematography focusses primarily on the tools and technology of the trade looking at how digital cameras work the ramifications of choosing one camera versus

another and how those choices help creative cinematographers to tell a story This book empowers you to both correctly choose the right camera and workflow for your project from today s incredibly varied options as well as understand the ins and outs of implementing those options Stump sheds a light on the confusing advantages and disadvantages of shooting theatrical features using digital technology and what it can or can t do Topics covered include Detailed coverage of Arriflex Blackmagic Canon Ikonoskop Panasonic Panavision Phantom Red Silicon Imaging Sony and Weisscam digital motion picture cameras Coverage of a wide variety of lenses including Angenieux Canon Cooke Fujinon Hawk Leica Panavision Red Schneider Sony UnigOptics Vantage and Zeiss Coverage of recorders displays and look management tools Exposure theory tips learn how to correctly expose digital cameras Focusing tips learn how to focus digital cameras correctly Checklists to help design digital workflows Practical tips on preparation prepare for shooting a digital motion picture like a professional Camera set up and operation color management digital intermediates 3D stereo cinematography future trends and much more If you aspire to be a successful cinematographer in this new digital age or if you already are a working cinematographer in need of a resource to help you stay on top of your game this is a must read book The Filmmaker's Handbook Steven Ascher, Edward Pincus, 2012-11-27 The authoritative guide to producing directing shooting editing and distributing your video or film Whether you aspire to be a great filmmaker yourself or are looking for movie gifts this comprehensive guide to filmmaking is the first step in turning a hobby into a career Widely acknowledged as the bible of video and film production and used in courses around the world The Filmmaker's Handbook is now updated with the latest advances in HD and digital formats For students and teachers professionals and novices this indispensable handbook covers all aspects of movie making Techniques for making dramatic features documentaries corporate broadcast and experimental videos and films Shooting with DSLRs video film and digital cinema cameras In depth coverage of lenses lighting sound recording editing and mixing Understanding HDR RAW Log 4K UHD and other formats The business aspects of funding and producing your project Getting your movie shown in theaters on television streaming services and online The EDCF Guide to Digital Cinema Production Lars Svanberg, 2013 A professional introduction to the end to end process of digital filmmaking The EDCF Guide to Digital Cinema Production sheds light on the ongoing and confusing transition from analog to digital technology in film production In addition to a complete analysis of technical concerns this text deals with a number of issues where European and Hollywood priorities differ It adds fuel to the discussion on Photo Chemical Fundamentalism and the future of traditional film based cinematography With special emphasis on new HD production techniques for the big cinema screen this guide is the one and only resource available from a European perspective The EDCF Guide to Digital Cinema Production provides film professionals and decisions makers in European cinema with an excellent basis for discussions on how to handle the transition from analog to digital technology Look no further for Several production case studies among them Ingmar Bergman's last film Saraband 2003 and Lars von Trier's Dogville 2003 Surveys of HD Systems

Cameras and The 37 MFAO on HD Production Expert reports on Audio Recording for HD and the Digital Intermediate Process Detailed European initiatives in Digital Cinema An up to date survey of the problematic standards situation for Digital Cinema A comprehensive look at archiving the Achilles Heel of digital production The pros and cons of producing feature films digitally a unique and professional view of the agony and ecstasy Editor in Chief Lasse Svanberg is a founding member of EDCF He was DoP on 14 feature films 1966 81 founded TM Technology Man Magazine at the Swedish Film Institute in 1968 and was its Chief Editor until 1998 He was elected Fellow of BKSTS 1979 Fellow of SMPTE 1995 and granted Professor's title by the Swedish Government 2002 He is the author of six books on the history and possible future of film video and television The European Digital Digital Cinema Forum EDCF was constituted in June 2001 as joint Swedish British French effort to establish a European forum for discussions information exchange and industrial activities in the field of Digital Cinema This project was initiated because digital production digital distribution and digital exhibition of film is the most radical technical change facing the film industry since sound film was introduced The EDCF Guide to Digital Cinema Production Lars Svanberg, 2013-06-26 A professional introduction to the end to end process of digital filmmaking The EDCF Guide to Digital Cinema Production sheds light on the ongoing and confusing transition from analog to digital technology in film production In addition to a complete analysis of technical concerns this text deals with a number of issues where European and Hollywood priorities differ It adds fuel to the discussion on Photo Chemical Fundamentalism and the future of traditional film based cinematography With special emphasis on new HD production techniques for the big cinema screen this guide is the one and only resource available from a European perspective The EDCF Guide to Digital Cinema Production provides film professionals and decisions makers in European cinema with an excellent basis for discussions on how to handle the transition from analog to digital technology Look no further for Several production case studies among them Ingmar Bergman's last film Saraband 2003 and Lars von Trier's Dogville 2003 Surveys of HD Systems Cameras and The 37 MFAQ on HD Production Expert reports on Audio Recording for HD and the Digital Intermediate Process Detailed European initiatives in Digital Cinema An up to date survey of the problematic standards situation for Digital Cinema A comprehensive look at archiving the Achilles Heel of digital production The pros and cons of producing feature films digitally a unique and professional view of the agony and ecstacy Editor in Chief Lasse Svanberg is a founding member of EDCF He was DoP on 14 feature films 1966 81 founded TM Technology Man Magazine at the Swedish Film Institute in 1968 and was its Chief Editor until 1998 He was elected Fellow of BKSTS 1979 Fellow of SMPTE 1995 and granted Professor's title by the Swedish Government 2002 He is the author of six books on the history and possible future of film video and television The European Digital Digital Cinema Forum EDCF was constituted in June 2001 as joint Swedish British French effort to establish a European forum for discussions information exchange and industrial activities in the field of Digital Cinema This project was initiated because digital production digital distribution and digital exhibition of film is the most radical technical change

facing the film industry since sound film was introduced Digital Filmmaking Thomas Ohanian, Natalie Phillips, 2013-04-03 Digital Filmmaking has been called the bible for professional filmmakers in the digital age It details all of the procedural creative and technical aspects of pre production production and post production within a digital filmmaking environment It examines the new digital methods and techniques that are redefining the filmmaking process and how the evolution into digital filmmaking can be used to achieve greater creative flexibility as well as cost and time savings The second edition includes updates and new information including four new chapters that examine key topics like digital television and high definition television making films using digital video 24 P and universal mastering and digital film projection Digital Filmmaking provides a clear overview of the traditional filmmaking process then goes on to illuminate the ways in which new methods can accomplish old tasks It explains vital concepts including digitization compression digital compositing nonlinear editing and on set digital production and relates traditional film production and editing processes to those of digital techniques Various filmmakers discuss their use of digital techniques to enhance the creative process in the Industry Viewpoints sections in each chapter The Death & Rebirth of Cinema: Mastering the Art of Cinematography in the Digital Cinema Age Harry Mathias, 2015-12-15 Simply put Harry Mathias has done it again The Death it is for anyone who cares about telling dramatic stories visually to film audiences Film directors producers production designers art directors editors colorists and film critics are all concerned with communicating cinematic images effectively to a theatre audience Often the issue today is not how can this be done effectively with digital cinema but how can it be done in spite of all this new technology In this book Mathias boldly sets out the plan to reach that cinematography of the future What is important to cinema is image quality and the art of cinematography and that is why the major skills required are the same whether a Director of Photography is using film or digital cinema This book is about making images the right way regardless of the camera technology being used Cinema is after all technology in the service of art not the other way around Culture: Understanding New Media Creeber, Glen, Martin, Royston, 2008-12-01 From Facebook to the iPhone from YouTube to Wikipedia from Grand Auto Theft to Second Life this book explores media s important issues and debates It covers topics such as digital television digital cinema game culture digital democracy the World Wide Web digital news online social networking music multimedia and virtual communities Digital Cinema Stephen Prince, 2019-01-18 Digital Cinema considers how new technologies have revolutionized the medium while investigating the continuities that might remain from filmmaking s analog era In the process it raises provocative questions about the status of realism in a pixel generated digital medium whose scenes often defy the laws of physics It also considers what these changes might bode for the future of cinema How will digital works be preserved and shared And will the emergence of virtual reality finally consign cinema to obsolescence Stephen Prince offers a clear concise account of how digital cinema both extends longstanding traditions of filmmaking and challenges some fundamental assumptions about film It is essential reading for anyone

interested in understanding how movies are shot produced distributed and consumed in the twenty first century

Understanding Media in the Digital Age Everette E. Dennis, Melvin Lawrence DeFleur, 2010 Written by two of the field s most eminent experts this exciting new introduction to mass media makes connections between communication research and the reality of the media industry Understanding Media in the Digital Age shows readers how to navigate the world of traditional and new media while fostering an understanding of mass communication theory history active research findings and professional experience Digital Photography QuickSteps Doug Sahlin, 2004-12-28 We know a picture is worth a thousand words so we went heavy on pictures and light on words in this easy to use guide Color screenshots and brief instructions show you how to take great looking pictures with your digital camera Follow along and learn to set up your shot like a pro get the lighting right photograph people landscapes and action shots edit and enhance your digital images print high quality photos share your photos online and much more Each chapter s How to list and color coded tabs make it easy to flip straight to the tasks you need to do Get the book that helps you get the most out of your digital camera in no time

The Digital Filmmaking Handbook Ben Long, Sonja Schenk, 2006 Accompanying DVD ROM includes project files film clips video tutorials and essays and demo versions of Adobe After Effects Adobe Photoshop Adobe Premiere Pro for Windows Adobe Audition and Adobe Encore DVD The Filmmaker's Guide to Digital Imaging Blain Brown, 2014-08-21 It s a whole new world for cinematographers camera assistants and postproduction artists New equipment new methods and new technologies have to be learned and mastered New roles such as that of the DIT Digital Imaging Technician Digital Loader and Data Manager are integral to today s motion picture production process Take your mastery of these new tools techniques and roles to the next level with this cutting edge roadmap from esteemed author and filmmaker Blain Brown The Filmmaker s Guide to Digital Imaging covers both the theory and the practice featuring full color in depth coverage of essential terminology technology and industry standard best practices Brown covers new industry wide production standards such as ASC CDL and the ACES workflow Interviews with professional cinematographers and DITs working on Hollywood productions equip you with knowledge that is essential if you want to work in today s motion picture industry whether as a cinematographer DIT Digital Loader Data Manager camera assistant editor or VFX artist Topics include Digital sensors and cameras The structure of digital images Waveform monitors vectorscopes and test charts Using linear gamma and log encoded video files Exposure techniques for HD and UltraHD Understanding digital color Codecs and file formats The DIT cart Downloading ingesting and managing video files Workflow from camera to DIT cart to post Using metadata and timecode The companion website www focalpress com cw brown features additional material including demonstrations and interviews with experienced DITs and cinematographers **New Digital Cinema** Holly Willis, 2005 This introduction to contemporary digital cinema tracks its intersection with video art music video animation print design and live club events to create an avant garde for the new millennium It begins by investigating digital cinema and its contribution to innovations in

the feature film format examining animation and live action hybrids the gritty aesthetic of the Dogme 95 filmmakers the explosions of frames within frames and the evolution of the ambient narrative film This study then looks at the creation of new genres and moving image experiences as what we know as cinema enters new venues and formats American Book Publishing Record, 2006 Digital Filmmaking for Beginners A Practical Guide to Video Production Michael K. Hughes, 2012-06-22 Discover how to create professional quality digital videos faster than you can say lights camera action Digital video cameras are everywhere even on our phones But cameras don't make great movies filmmakers do Written by a seasoned pro with 40 years of teaching experience Digital Filmmaking for Beginners is your fully illustrated introduction to all technical aspects of digital filmmaking Featuring clear concise instruction accompanied by online video demonstrations this comprehensive guide covers the best methods and techniques to plan and script projects set up lighting microphones and cameras and shoot edit and apply postproduction effects and other finishing touches Whether you re an amateur film buff or an aspiring professional videographer this is the source for everything you need to bring your ideas from the page to the screen Coverage includes Best practices to ensure smooth operations in all project phases from planning to post production Recommendations on selecting and purchasing cameras filming gear and the best editing and effects software to fit your budget and needs Advice on planning shooting editing and other technical elements Fully illustrated tutorials on composition framing and other visual storytelling techniques Exclusive bonus online content including finished video demonstrations of key filmmaking techniques and informative articles From Light to Byte Markos Hadjioannou, 2012 Cinema has been undergoing a profound technological shift celluloid film is being replaced by digital media The author asks what is different in the way digital movies depict the world and engage with the individual and how we might best address the technological shift within media archaeologies **Understanding Cinematography** Brian Hall, 2015-07-31 Cinematography is the art and craft of visualizing and recording the moving image The cinematographer therefore has to use their technical and creative skills to photographically capture the mood of the film and the vision of the director Done properly they add the magic and depth to a film giving it a defining edge This practical book explains the principles behind cinematography as well as the skills of the cinematographer Having described the equipment it looks at how to interpret the script and advises on how to find a visual style Written by a respected cinematographer it also explains the roles of the camera crew and the importance of working as a team Fully illustrated with 128 colour photographs

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