CCD Astroimaging Information
From Observational Astronomy Web Site by David Haworth
http://www.stargazing.net/david/

CCD Astroimaging Books

- *A Practical Guide to CCD Astronomy*, Patrick Martinez and Alain Klotz, 243 pages
  - A guide to choosing and using CCD cameras for amateur astronomers
- *Amateur Telescope Making*, Stephen F. Tonkin
  - Chapter 14 is on building and using a Cookbook CCD Camera by Al Kelly, 14 pages
  - 12 chapters by different authors about their CCD experiences.
- *Astronomical Equipment for Amateurs*, Martin Mobberley
  - Chapter 8 is on electronic imaging, 43 pages
- *Astrophotography for the Amateur*, 2nd Ed., Michael A. Covington
  - Chapter 12 is on Computer Image Enhancement, 26 pages & Chapter 13 is on CCD Imaging, 16 pages
  - An intermediate to advanced understanding of CCD camera design, operation and imaging processing.
- *The CCD Camera Cookbook*, Richard Berry, Veikko Kanto & John Munger, 176 pages
  - This book shows you how to build your own CCD camera.
- *Choosing and Using a CCD Camera*, Richard Berry, 96 pages
  - Book includes Quikpix software for PCs
- *Deep Space CCD Atlas: North (264 pages) and South* books by John Vickers P.O.B. 1292 Duxbury, MA 02331
  - A good reference of CCD images to verify your objects
- *Electronic Imaging in Astronomy - Detectors and Instrumentation*, Ian S. McLean, 472 pages
  - CCDs and other imaging devices used in professional observatories
  - Covers the fundamental requirements for obtaining good CCD images.
  - A very good book on image processing & it includes *Astronomical Image Processing for Windows* (AIP4WIN)
  - Good intermediate introduction to CCD imaging.
- *Introduction to Astronomical Image Processing*, Richard Berry, 96 pages
  - A beginners’ guide to CCD image enhancement for PCs and basics on CCD imaging processing, includes
  - Astronomical Image Processing (AIP245) software
- *The New CCD Astronomy*, Ron Wodaski, 476 pages
  - A very good book to start learning about CCD astronomy
- *Splendors of the Universe: A Practical Guide to Photographing the Night Sky*, Terence Dickinson, Jack Newton, Terrence Dickinson
  - Covers various aspects of astrophotography including CCD imaging
  - Part 4: More Power to You, 17 pages
- *Video Astronomy*, Steve Massey, Thomas A. Dobbins & Eric J. Douglass, 200 pages
  - A beginners’ guide to using video

Book Stores

### Commercial CCD & Video Cameras for Astroimaging

<table>
<thead>
<tr>
<th>Company</th>
<th>URL</th>
<th>Cameras</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adirondack Video Astronomy</td>
<td><a href="http://www.astrovid.com/">http://www.astrovid.com/</a></td>
<td>Astrovid 2000, Neptune 100, Planetcam, Color Pro, Color Pro C</td>
<td>Video cameras</td>
</tr>
<tr>
<td>Apogee Instruments</td>
<td><a href="http://www.ccd.com/">http://www.ccd.com/</a></td>
<td>AP Series</td>
<td>CCD cameras</td>
</tr>
<tr>
<td>Finger Lakes Instrumentation</td>
<td><a href="http://www.fli-cam.com/">http://www.fli-cam.com/</a></td>
<td>MaxCam, IMG Series</td>
<td>CCD cameras</td>
</tr>
<tr>
<td>Meade Instruments</td>
<td><a href="http://www.meade.com/">http://www.meade.com/</a></td>
<td>Pictor Series: 201XT, 208XT, 216XT, 416XTE, 1616XTE</td>
<td>CCD cameras</td>
</tr>
<tr>
<td>Santa Barbara Instrument Group (SBIG)</td>
<td><a href="http://www.sbig.com">http://www.sbig.com</a></td>
<td>STV, ST237A, ST5C, ST7E, ST8E, ST9, ST10</td>
<td>CCD &amp; video rate cameras</td>
</tr>
<tr>
<td>Starlight Xpress</td>
<td><a href="http://www.starlightxpress-usa.com/">http://www.starlightxpress-usa.com/</a></td>
<td>MX516, HX516, MX916, HX916, MX5C, MX7C, STAR200</td>
<td>CCD cameras</td>
</tr>
</tbody>
</table>

### Build Your Own CCD Camera for Astroimaging

<table>
<thead>
<tr>
<th>Camera</th>
<th>URL</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audine</td>
<td><a href="http://www.nsea.com/audine.html">http://www.nsea.com/audine.html</a></td>
<td>French AUDE Association design, uses KAF-0400 CCD IC</td>
</tr>
<tr>
<td>Cookbook CB245 &amp; CB211</td>
<td><a href="http://www.wvi.com/~rberry/cookbook/cookbook.htm">http://www.wvi.com/~rberry/cookbook/cookbook.htm</a></td>
<td>CB245 is very popular, uses TI-245</td>
</tr>
<tr>
<td>Genesis (Audine clone)</td>
<td><a href="http://www.genesis16.net">http://www.genesis16.net</a></td>
<td>Canada/USA version of the Audine CCD camera uses KAF-0401e/-1601e</td>
</tr>
</tbody>
</table>

### Imaging Processing & Control Software for Astroimaging

<table>
<thead>
<tr>
<th>Software</th>
<th>Source</th>
<th>URL</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro2.0</td>
<td>MSB Software</td>
<td><a href="http://www.msb-astroart.com/">http://www.msb-astroart.com/</a></td>
<td>Image processing &amp; camera control</td>
</tr>
<tr>
<td>AstroPIX: CB245, Multi245 &amp; Qcolor</td>
<td>Richard Berry</td>
<td><a href="http://www.wvi.com/~rberry/astropix/astropix.htm">http://www.wvi.com/~rberry/astropix/astropix.htm</a></td>
<td>Image processing for the Cookbook CCD cameras</td>
</tr>
<tr>
<td>AstroStack 2</td>
<td>Robert J. Stekelenburg</td>
<td><a href="http://www.astrostack.com/">http://www.astrostack.com/</a></td>
<td>Stacking images</td>
</tr>
<tr>
<td>CCDSoft</td>
<td>Software Bisque</td>
<td><a href="http://www.bisque.com/">http://www.bisque.com/</a></td>
<td>Image processing &amp; camera control</td>
</tr>
<tr>
<td>ImagePlus</td>
<td>MLUnsold Digital Imaging</td>
<td><a href="http://www.mlunsold.com">http://www.mlunsold.com</a></td>
<td>Image processing</td>
</tr>
<tr>
<td>IRAF</td>
<td>IRAF Programming Group &amp; NOAO</td>
<td><a href="http://iraf.noao.edu/">http://iraf.noao.edu/</a></td>
<td>Free image processing for UNIX &amp; LINUX</td>
</tr>
<tr>
<td>Local Adaptive Unsharp Masking (LAUM)</td>
<td>Balthasar Indermuehle</td>
<td><a href="http://www.inside.net/plugin">http://www.inside.net/plugin</a></td>
<td>Plugin for MIRA, Paint Shop Pro &amp; Photoshop</td>
</tr>
<tr>
<td>MaxIm DL</td>
<td>Diffraction Limited</td>
<td><a href="http://www.cyanogen.com">http://www.cyanogen.com</a></td>
<td>Image processing &amp; camera control</td>
</tr>
<tr>
<td>MIRA Pro &amp; MIRA AP</td>
<td>Axiom Research</td>
<td><a href="http://www.axres.com/">http://www.axres.com/</a></td>
<td>Image processing &amp; camera control</td>
</tr>
<tr>
<td>QMiPS32</td>
<td>Christian Buil</td>
<td><a href="http://www.astrosurf.com/qm32/">http://www.astrosurf.com/qm32/</a></td>
<td>Image processing</td>
</tr>
<tr>
<td>StellalImage3</td>
<td>AstroArts</td>
<td><a href="http://www.stellaerts.co.jp/index.html">http://www.stellaerts.co.jp/index.html</a></td>
<td>Image processing</td>
</tr>
<tr>
<td>RegiStar</td>
<td>Auriga Imaging</td>
<td><a href="http://aurigaimageing.com">http://aurigaimageing.com</a></td>
<td>Registration software</td>
</tr>
<tr>
<td>Registax</td>
<td>Cor Berrevoets</td>
<td><a href="http://aberrator.astronomy.net/registax/">http://aberrator.astronomy.net/registax/</a></td>
<td>Registration software</td>
</tr>
<tr>
<td>PictorView</td>
<td>Meade Instruments</td>
<td><a href="http://www.meade.com/">http://www.meade.com/</a></td>
<td>Image processing &amp; Pictor camera control</td>
</tr>
<tr>
<td>SuperFix &amp; MegaFix</td>
<td>Bruce Johnston Computing</td>
<td><a href="http://members.aol.com/BJohns7764/">http://members.aol.com/BJohns7764/</a></td>
<td>Image processing</td>
</tr>
<tr>
<td>Win245</td>
<td>Intricate Micro Systems</td>
<td><a href="http://www.intricate-ms.com/">http://www.intricate-ms.com/</a></td>
<td>Cookbook CB245 control</td>
</tr>
</tbody>
</table>
## Photo Editing Software Commonly Used for Astroimaging

<table>
<thead>
<tr>
<th>Software</th>
<th>Source</th>
<th>URL</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paint Shop Pro</td>
<td>JASC</td>
<td><a href="http://www.jasc.com">http://www.jasc.com</a></td>
<td>Graphics program</td>
</tr>
<tr>
<td>Photoshop</td>
<td>Adobe</td>
<td><a href="http://www.adobe.com">http://www.adobe.com</a></td>
<td>High end graphics program</td>
</tr>
<tr>
<td>Picture Window</td>
<td>Digital Light &amp; Color</td>
<td><a href="http://www.dl-c.com">http://www.dl-c.com</a></td>
<td>Full 16 bit editing, many application notes on web site</td>
</tr>
</tbody>
</table>

### CCD Astroimaging Accessories

- Flip mirrors & optical filters
- Optec, Inc., http://www.optecinc.com
- Telecompressor lens for CCD cameras, PC-controllable filter slides/filter wheels and pre-viewer equipment
- High end CCD IC manufacturer

### CCD Astronomy Magazine

- CCD Astronomy was published from spring 1994 to winter 1997 with four issues per year.
- Obtain the back issues of CCD Astronomy from Sky Publishing Corp., http://skyandtelescope.com/
  - Especially summer 1995 for the article Starting Out Right by Douglas George.
  - This is a must to read article for anyone starting in CCD imaging.

### CCD Astroimaging Magazine Articles

- Amateur Telescope Making Journal, This magazine is not being published in any more.
  - Issue #14, The "What Next" Crisis in CCD Imaging by Richard Berry
  - Issue #13, Telescopes for CCD Imaging (Revisited) by Richard Berry
  - Issue #12, Noise in CCD Cameras by Richard Berry
  - Issue #11, CCD Imaging In Color by Richard Berry
  - Issue #8, Imaging on a Mountaintop - Telescopes for CCD Imaging Part IV by Richard Berry
  - Issue #7, Telescopes for CCD Imaging Part III by Richard Berry
  - Issue #6, Telescopes for CCD Imaging Part II by Richard Berry
  - Issue #5, Telescopes for CCD Imaging by Richard Berry
  - 1999 5th Edition, From Darkroom to Digital
  - 2002, September, Capture the Sky from Kitt Peak
  - 2002, July, Over the Rainbow
  - 2002, May, Catch an Extrasolar Planet
  - 2002, March, Trichannel Astrophotography
  - 2002, March, Imaging from the ‘Burgs
  - 2002, February, Catching the Light Digitally Enhancing Your Astrophotos
  - 2001, February, Sharpen Your Images
  - 2001, January, Sunsational Photography
  - 2000, September, Exploring the Digital Darkroom
  - 2000, April, In Cyber Color
  - 2000, March, How to Record the Digital Sky
  - 2000, February, Capture the Sky on a CCD
  - 1999 September, Adaptive Optics Meet CCDs
  - 1998 April, CCD Cameras Get Savvy, ST-7 & ST-8
  - 1997 February, In Search of Faint Galaxies
  - 1996 December, Piece-by-Piece Astrophotography
  - 1996 March, Beyond the Visible with CCDs
  - 1995 September, Tune Up Your Telescope for CCD
  - 1995 February, Catching Comets with a CCD
  - 1994 September, Seeing & Believing (Don Parker)
  - 1994 August, Working in the Digital Darkroom
  - 1993 October, Over the Edge
• 1993 April, The Digital Darkroom, "Printing" the Image
• 1993 March, The Digital Darkroom, "Developing" the Image
• 1992 February, Celestial Seeing: Three Imaging Technologies
• 1991 August, Snapping the Planets Electronically
  • 2002 March, Amateur Astronomical Spectroscopy
  • 2000 March, At the Sharp end of Amateur Technology
• 1999 May, Recording an Eclipse on Video
• 1999 March, The Digital Age
• 1998 December, Finding the Position
• 1998 September, A CCD Overview
• 1998 June, CCD Sky: Supernova Patrol
• 1998 May, Ultimate Observing, Tom Puckett Observatory
• 1998 March, The Celestron Fastar SCT
• 1998 March, CCD Sky, General Tips
• 1998 January, Observations from Portugal, Pedro Re CCD setup
• 1997 December, CCD Sky: Processing Images
• 1997 November, An Eyepiece Camera - MX5
• 1997 September, CCD Sky: Finding Faint Objects
• 1997 June, CCDs - The Next Quantum Leap
• 1997 March, CCD Sky, Celestron Pixcel 255 Camera
• 1997 March, CD-ROM CCD Images
• 1996 December, Planetary Imager (Don Parker)
• 1996 September, CCD Time Machines
• 1996 June, Terry Platt Interview (inventor of the Starlight Xpress CCD cameras)
• 1995 October, From Camera and Film to CCD and Disk
• 1995 September, Stars in CCD Color
• 1995 June, By the Light of a Pixelled Moon
• 1995 April, Incredible Skies Captured by CCD
  • 2000 September/October Astro-Imaging With a Commercial Digital Camera
  • 2002 November, Planning an Astro-Imaging Expedition
  • 2002 October, Deep-Sky Imaging with Digital Cameras
  • 2002 September, Focusing a CCD Camera
  • 2002 July, Measuring Double Stars with Video
  • 2002 April, Improving Astrophotos with Photoshop’s Curves
  • 2002 February, Wide-Field Imaging with CCD Cameras
  • 2001 December, Thoughts on Super-Resolution Planetary Imaging
  • 2001 November, Two Ultrasensitive CCD Cameras
  • 2001 November, Imaging the Sky from the Suburbs
  • 2001 October, A Trio for Minor-Planet Observers
  • 2001 September, Fixing Vignetting in Astrophotos
  • 2001 August, The Astrovid Color PlanetCam
  • 2001 August, Astro Imaging with Digital Cameras
  • 2001 July, High-Resolution Composite Color Imaging with Films
  • 2001 July, Color CCD Imaging with Luminance Layering
  • 2001 May, Automated Meter Observing
  • 2001 January, Combining Exposures with Layer Masks
  • 2001 January, STV: Digital Imaging for the Masses?
  • 2000 December, Backyard Science: The IAPPP and the Amateur Astronomer
  • 2000 November, Color Planetary Imaging for Beginners
  • 2000 August, Automatic Asteroid Hunting
  • 2000 July, Getting the Most from a CCD Spectrograph
  • 2000 May, Backyard Spectroscopy
  • 2000 February, A Place for Astro Imagers
  • 2000 January, Thoughts of High-Resolution Imaging
• 1999 August, A First Look: SBIG’s Enhanced ST-7E CCD Camera
• 1999 August, Video of the Stars (Astrovid 2000)
• 1999 July, Under One Roof (MaxIm DL)
• 1999 June, Expanding the View
• 1999 May, Going to the Limit
• 1999 March, Warming Up to Digital Imaging
• 1999 March, Sentinel of the Sky
• 1999 February, Building a Fiber-Optic Spectrograph
• 1998 December, True-Color CCD Imaging
• 1998 November, Astrophotography with a Twist, Digital Image Processing
• 1998 November, Better Resolution Through Technology, SBIG AO-7
• 1998 July, Digital Desktop Darkroom
• 1998 June, QuickCam Astronomy
• 1998 May, Limiting Magnitudes for CCDs
• 1998 February, The Starlight Xpress MX5
• 1998 February, CCDs, Small Scopes, and the Urban Amateur
• 1997 December, Measuring the Sky with CCDs
• 1997 October, Visiting Grove Creek Observatory
• 1997 October, Test Report: Celestron's PixCel 255 CCD Camera
• 1997 September, Test Report: Meade's Pictor 208XT and 216XT
• 1997 August, Test Report: Meade's Pictor 201XT Autoguider
• 1997 August, A CCD Camera Buzzword Primer
• 1997 July, Digitally Enhance Your Astrophotos
• 1997 June, Of Pixel Size and Focal Reducers
• 1997 May, A Do-It-Yourselfer's Primer for Digital Deep-Sky Imaging
• 1997 January, Amateurs and the CCD Revolution
• 1996 July, Test Report: SBIG’s ST-7 Camera
• 1995 August, Backyard Astronomy: Guiding for Sky Photography
• 1994 April, Image Processing in Astronomy
• 1993 April, An Astrophotographer’s Dream Home (Jack Newton)
• 1993 February, The Limiting Magnitude of a CCD Camera
• 1991 March, Test Report: An advanced CCD imaging camera for amateurs (Lynxx-PC Plus)
• 1990 October, Camcorder Assist for Planetary Observers
• 1990 September, Test Report: A Versatile CCD for Amateurs (ST-4)

Sky & Space Magazine, Australia Magazine +61 2 9369 3344
• 1997 June, Technical Tips - LunaCam I and II
• 1997 February, Test Report: SBIG ST-7 by Ted Dobosz

• Telescopes & Camcorder, A Match Made in Heaven

• 1998 June, Off-The –Shelf Software Provides Astronomy Researchers with Deblurred Images

Back issues of Observatory Techniques Magazine, (605) 226-1078, Email: otm@midco.net. This magazine is not being published in any more. Issues 1 - 23 were published and had information on CCD imaging.

CCD Astroimaging Video Tapes
• Oct. 1995 Imaging the Sky conference and other CCD videos, STV Press & Video, Tom Cleveland (800) 493-3005
  http://www.thinkvideo.com/astronomy.html
  Try to obtain the ST-4 tape if you are just starting to use the ST-4.

CCD Astroimaging Web Articles
• Astronomy magazine articles online, http://www.astronomy.com look under Features, Hobby, Photographing the Sky
• Apogee CCD University, http://www.ccd.com/ccdu.html
• Image Processing in Astronomy Education http://www.phy.duke.edu/~kolena/talks/aapt99.html
  A talk presented at the January 1999 meeting of the American Association of Physics Teachers Anaheim, CA
• PixelVision http://www.pv-inc.com/tutorial/tutorial.htm
How CCDs Challenge Your Telescope, Refractor or Reflector, Tune Up Your Drive, etc.

- Sky Publishing Corp. CCD Astronomy articles are online at http://skyandtelescope.com/howto/imaging/
- SITe CCD tutorial at http://www.site-inc.com/tutorial.htm
- U. of Virginia

CCD Astroimaging Conferences and Presentations
- AstroImage conferences by the Orange County Astronomers, http://www.chapman.edu/oca/special.html

CCD Astroimaging Computer CD-ROMs
  - Includes *FOSTER CCD Imaging* electronic book.
  - Before and after processed images
  - SkyPro CCD astronomy software demo (V2.04) with over 1,000 sample images taken with a wide range of optical instruments.
- *The Ultimate CCD Collection*, Images by Jack Newton & Don Parker
  - SkyPro CCD astronomy software demo (V2.04) with over 300 color images.
  - Images are provided in 24-bit TIFF, JPEG and 8-bit bitmap files.
  - http://www.bisque.com/

CCD Astroimaging Email List Servers
- Yahoo! Groups Top>Science>Astronomy has many groups on CCD cameras & image processing software
  - http://dir.groups.yahoo.com/dir/Science/Astronomy
- CCD list send “subscribe ccd” to Majordomo@listserv.wwa.com

CCD Astroimaging Images on the Web (Also check Astroimaging Astronomer’s Web Sites below)
- CCD Images of Messier Objects, http://zebu.uoregon.edu/messier.html
  - ST-4, ST-5, ST-6B and ST-8E images

CCD Astroimaging Astronomer’s Web Sites
- Bartels, Mel http://www.efn.org/~mbartels/
  - Hale Research camera with SITe 502AB MPP camera images
- Berry, Richard http://www.wvi.com/~rberry/
  - Author of many books, articles & software programs.
  - Co-author of *The Handbook of Astronomical Image Processing*
  - Cookbook CB245 camera information & images
- Boltwood, Paul http://ottawa.rasc.ca/pictures/pboltwood/pboltwood.html
  - Meade LX200 and 416XT techniques and images
- Burnell, James http://www.jburnell.com/
  - Co-author of *The Handbook of Astronomical Image Processing*
  - Cookbook CB245 camera images, AIP4WIN imaging processing software
- Carrico, Tom http://www.ccdtom.com/
  - SBIG ST-7E camera images
- Catterall, Adrian Modern Observatory http://www.observatory.demon.co.uk/
  - Hale Eac512 & SBIG ST-8E camera images
- Cidadao, Antonio http://www.astrosurf.com/cidadao/
• Lunar & planetary CCD imaging
• Cole, Michael The Urban Imager http://home.earthlink.net/~urbanimager
  • SBIG ST-7 camera images
• Cook, Lew CCD Photometry http://www.geocities.com/lcoo/
• Girard, Jim http://www.teleport.com/~argo/
  • SBIG ST-7 camera images
• Goldman, Don http://www.astrodon.com/index.html
• Graham, Glenn Imaging Web Page, http://home1.gte.net/res0jwg1/astronomy
  • SBIG STV & Meade Pictor 216xt camera images
• Haworth, David http://www.stargazing.net/david/
  • Fastar SBIG ST-237, Nikon Coolpix 990 & Cookbook CB245 camera images
• Hoot, John http://www.chapman.edu/oca/ai99/hoot.htm
  • 1999 AstroImage’99 talk on acquiring time-lapse CCD images and creating animated GIFs
• Johnson, Wayne http://www.chapman.edu/oca/benet/mrgalaxy.htm
  • Web site devoted to Supernova searching, which features a number of CCD images of galaxies and SNe.
• Kelly, Al http://www.ghg.net/akelly
  • Cookbook CB245 camera images
• Kenyon, Dave http://www.vfr.net/~drdkccd/
  • SBIG ST-7 camera images and CCD articles
• Krajci, Tom http://members.3lefties.com/krajcit/
  • Photometry, bias frame analysis & images
• Lodriguss, Jerry http://www.astropix.com/index.html
  • Film images and digital imaging techniques articles
• Luse, Dennis http://www.stargazing.net/david/DennisLuse/index.htm
  • SBIG ST-7 camera images & tips for imaging with the LX200-ST7
• MacQuarrie, Jeff http://members.aol.com/tchphysics/index.htm
  • Cookbook CB245 camera images
• Mais, Dale http://members.cts.com/cafe/m/mais/
  • Spectroscopy, ST-8
• McLaughlin, William http://willmclaughlin.astrodigitals.com/
  • Author of the Astronomy Magazine article In Search of Faint Galaxies.
  • Many types of CCD cameras, images & imaging articles
• Mobile Astronomical Society http://hometown.aol.com/RMOLLISE/index.html
  • Astrovideography
• Okano, Kunihiko http://www.asahi-net.or.jp/~rt6k-okn
  • SBIG ST-7E camera images, DDP image processing techniques and images
• Polakis, Tom http://www.psiaz.com/polakis/
  • SBIG ST-7 camera images & articles
• Puckett, Tim http://www.cometwatch.com
  • Apogee AP7 camera images
• Stephens Robert http://home.earthlink.net/~rdstephens/default.htm
  • SBIG ST-7 camera images
• Tucker, Roy http://gpobs.home.mindspring.com/gpobs.htm
  • Moving Object and Transient Event Search System (MOTESS)
• Vanhoeck, Luc http://ourworld.compuserve.com/homepages/Luc_Vanhoeck/
  • SBIG ST-8 camera images
• Vaughn, Chuck http://www.aa6g.org/astro.html
  • Astrophotography
• Wallis, Brad http://www.frazmtn.com/~bwallis
  • SBIG ST-7 camera images
• Weichel, Steen http://home.worldonline.dk/~jsrsw/index.htm
  • Comparison of the general properties of CCD-cameras for astronomical use & Cookbook CB245 camera images
• West, Rob http://members.aol.com/wmti/ccd.html
  • Cookbook CB245 camera images
• Wodaski, Ron http://www.wodaski.com/wodaski/default.asp
  • ST-8E, many articles, reviews & images
• Wong, Alison http://home.earthlink.net/~alsonwong/index.htm
• Astrophotography with a ST-4 autoguider
• Wisniewski, Jan http://www.freeyellow.com/members7/jwisn
• Cookbook CB245 images & CCD mosaics
• Zerbe, Craig High Resolution Video Imaging http://www.astroimaging.com/

CCD Observing
• New Mexico Skies Guest Observatory, http://www.nmskies.com
• Nightly and Advanced Observing Program at Kitt Peak, the National Optical Astronomy Observatory (NOAO)
  • http://www.noao.edu/outreach/aop
• Observatory, Bed & breakfast, Jack Newton, http://www.jacknewton.com
• Chiefland, FL & Osoyoos, BC, Canada
• Skywatcher's Inn, Bed & breakfast, Arizona http://www.communiverse.com/skywatcher

Astroimaging with Standard Digital Cameras
• Digital camera T-mount adapters are available from CKC Power, http://www.ckcpower.com/ and Scopetronix
• Bryan, http://webpages.charter.net/bbiggers/DCExperiments/index.html, has an extensive web site on Nikon Coolpix
Coolpix 950 digital camera includes star fields, Moon, M13, Orion, Jupiter, Saturn and Mars. He describes setups, hot
pixels and dark frames.
• Cannon, Denny, http://home.hiwaay.net/~drcannon/cp950/, has lots of information on the Coolpix 950. He describes
  making a homemade C-8 mount bracket to hold the Coolpix 950 and making a cable release bracket for the Coolpix 950.
  His Mars, Venus, Moon, Jupiter, Orion, M13, M57, M11, M22, etc. images were taken with a Celestron SP C-8 with
  Coolpix 950.
• Haworth, David, http://www.stargazing.net/david/Nikon990/index.html, images of the Sun and Moon with a Nikon
  Coolpix 990 and Orion Short Tube 80mm Refractor.
• Hergert, Don, http://home.att.net/~dhergert/astro950.html, describes astrophotography with the Coolpix 950 using a
  Tasco 900mm/4.5” 450x reflector telescope. He describes building an eyepiece/adapter for the Coolpix 950. His images
  include Jupiter, Moon, Saturn and the Sun.
• Lonestardigital.com, http://www.lonestardigital.com/coolpix950.htm, Online Digital Photography Magazine, has lots of
  information on the Coolpix 950 and 990 and includes a Moon image with Coolpix 950 using a CKC Power Spotting
  Scope.
• McKee, Bret, http://www.imaging-resource.com/ARTS/ASTRO/ASTRO.HTM, has a nice one-web page overview article
  on Digital Camera Astrophotography.
• Salzgeber, Philipp, http://www.salzgeber.at/astro/moon/aristarchus2.html, has a Moon image taken with 5.1” Newton
  telescope with a Coolpix 950 digital camera.

List of Astronomy Lists
• Brad Wallis and Robert Provin  ASTRO IMAGING LINKS PAGE  http://voltaire.csun.edu/links.html
• Mel Bartels's list of links, http://www.efn.org/~mmbartels/aa/aa.html

QuickCam
• QuickCam and Unconventional Imaging Astronomy Group, http://www.astrabloo.demoon.co.uk/QCUIAG/
• Yahoo Groups QuickCam and Unconventional Imaging Astronomy Group, http://groups.yahoo.com/group/QCUIAG
• Cidadao, Antonio, Logitech grayscale QuickCam http://www.astrosurf.com/cidadao/quickcam.htm
• QuickCam Vesta Pro Camera, http://members.tripod.com/rjemtd/Astronomy.htm
• Pippin, Mark, Intel PC Camera, http://personal.lig.bellsouth.net/lig/g/p/gpippin/astrophotography.htm