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# Astrophotography

Thierry Legault



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### Astrophotography Thierry Legault

Today's photographic equipment allows amateurs to take pictures of the stars that far surpass images taken just a few decades ago by even the largest observatories-and this book will teach you how.

Author and world-renowned astrophotographer Thierry Legault teaches the art and techniques of astrophotography: from simple camera-on-tripod night-scene imaging of constellations, star trails, eclipses, artificial satellites, and polar auroras to more intensive astrophotography using specialized equipment for lunar, planetary, solar, and deep-sky imaging. Legault shares advice on equipment and guides you through techniques to capture and process your images to achieve spectacular results.

*Astrophotography* provides the most thorough treatment of the topic available. This large-format, richly illustrated book is intended for all sky enthusiasts-newcomers and veterans alike.

Learn how to:

- Select the most useful equipment: cameras, adapters, filters, focal reducers/extenders, field correctors, and guide telescopes
- Set up your camera (digital, video, or CCD) and your lens or telescope for optimal results
- Plan your observing sessions
- Mount the camera on your telescope and focus it for razor-sharp images
- Polar-align your equatorial mount and improve tracking for pin-point star images
- Make celestial time-lapse videos
- Calculate the shooting parameters: focal length and ratio, field of view, exposure time, etc.
- Combine multiples exposures to reveal faint galaxies, nebulae details, elusive planetary structures, and tiny lunar craters
- Adjust contrast, brightness, light curves, and colors
- Postprocess your images to fix defects such as vignetting, dust shadows, hot pixels, uneven background, and noise
- Identify problems with your images and improve your results

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