

# Guide to Digital Panoramic Photography

compiled by William Haun, [whaun.com](http://whaun.com)

## Tips for Shooting a Panorama

- Watch out for moving subjects
- Overlap images at least 25%
- Use in camera help if available
- Shoot in Manual mode – fixed focus and manual exposure
- Do not use a polarizing filter
- Shooting with your back to the sun provides best results
- Use a tripod for smooth panning and keeping your shots level
- Keep pivot point fixed when turning - for best results pivot on lens' nodal point

## About Panoramic Photography

- [A Brief History of Panoramic Photography](#) – Library of Congress
- [Panoramic Photography - Wikipedia](#)
- [Timeline of Panoramic Cameras](#) – by Bill McBride

## Famous Panoramic Photographers

- [George Barnard](#), Civil War Photographer
- [John R. Connon](#) (1862-1931)
- [George R. Lawrence](#) (1869-1938)
- [Frederick W. Brehm](#) (1871-1950)
- [Miles F. Weaver](#) (1879-1932)
- [Selected Panoramic Photographs](#) from the Library of Congress
- [Recreating the 1906 San Francisco Earthquake Panorama](#) in 2006

## Software

- Freebies
  - Camera Bundled Software like [Canon PhotoStitch](#)
  - [Windows Live Photo Gallery](#)
  - [Hugin](#)
  - [PanoTools](#)
- \$\$\$
  - [Photoshop CS](#) (\$700) & [Photoshop Elements](#) (\$100)
  - [ArcSoft Panorama Maker](#) (\$40)
  - [Autodesk Stitcher](#) (\$350)

## Hardware

- [Nodal Ninja](#) (\$230+)
- [Gigapan](#) (\$379)
- [Spinning-top Camera](#) (concept)
- [Triops](#)
- [Giroptic 360](#) (\$999)

## Sample Panoramic Images by [William Haun](#)

[Piedmont National Wildlife Refuge](#) (360 degree HDR, QTVR)

[Leepa-Rattner Museum of Art](#) (Interactive virtual tour)

[Farm in Northern Ghana](#)

[Bissa Village in Northern Ghana](#)

[Ringling Brothers Circus](#)

[Stephen C. Foster State Park](#)

[Reed Bingham State Park](#)

[Sweetwater Creek State Park](#)

[General Coffee State Park](#)

[Little Ocmulgee State Park](#)

[George L. Smith State Park](#)

[Macon Farmers Market](#)

[Red Top Mountain State Park](#) (HDR panorama)

[Panola Mountain State Park](#)

[Le Petit Prince](#) (pano planet)

[Trey's Room](#) (360 degree QTVR)