Tethered Photography or Remote Photography

Why and How

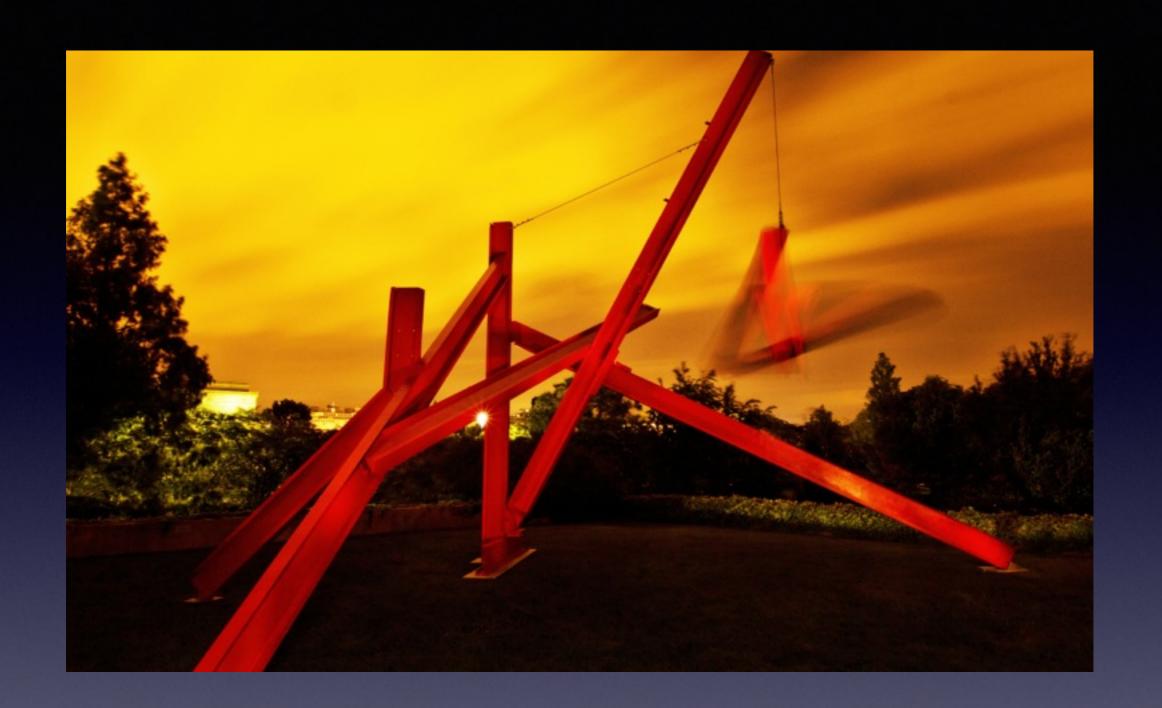
Tethered Shooting

- Connecting your camera to a computer or computer like device
- Viewing on a larger screen
- Recording images to off camera memory
- Remote control



Why

You or client want to see images on a large screen as you are shooting, i.e., portrait, fashion, product, ...



Why

Camera is remote, i.e., on a tall tripod



Why

Shooting wildlife or candid scenes and you can't or shouldn't be with the camera

How - Three Techniques

- Basic Camera wired to computer
- Wifi In camera router to phone, pad or computer
- Remote Router Camera wired to remote router to phone, pad or computer

Basic

- DSLR with remote capability
- Cable (may want an extension cord)
- Computer with monitor (I use a laptop)
- Software
 - Manufacturer supplied (I use Canon EOS Utility, apparently Nikon charges for Camera Control Pro 2)
 - Lightroom (other 3rd party software)

Basic +/-'s

- Simple to implement
- Images stored at capture
- Distance limited by wires
- Images stored in camera and/or computer
- Average speed

Camera Router

- Some cameras have a built-in WIFI capability, such as the Canon 6D
- Computer with monitor (I use a laptop or iPhone)
- Canon EOS utility available for Phones and Pads
- Software
 - Manufacturer supplied (such as Canon EOS Utility)

Camera Router +/-'s

- No additional hardware
- Uses up camera resources
- Canon is difficult to set-up per session
- Images stored in camera and/or computer
- SLOW

Remote Router

- DSLR
- Cable to Router
- Battery powered remote Router (I use a TP-Link Portable 3G/4G Wireless N Router TL-MR3040 with DSLR Controller firmware)
- iPad (or equivalent, I use a Samsung Galaxy Tab3, Android based)
- Software
 - DSLR Controller (for Canon)
 - qDSLR Dashboard (for Nikon, Canon and others)
 - CamRanger (for Nikon or Canon)

Remote Router +/-'s

- Fully featured software
- Flexible
- More difficult to implement
- Easy session set-up
- Requires more parts and pieces
- Images stored in camera

What's Next

- Multiple cameras
- Remote control vehicles, ground based and air based
- Internet based remote

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Demonstration

- Basic with EOS Utility
- Basic with Lightroom 5
- Remote Router / Samsung Pad

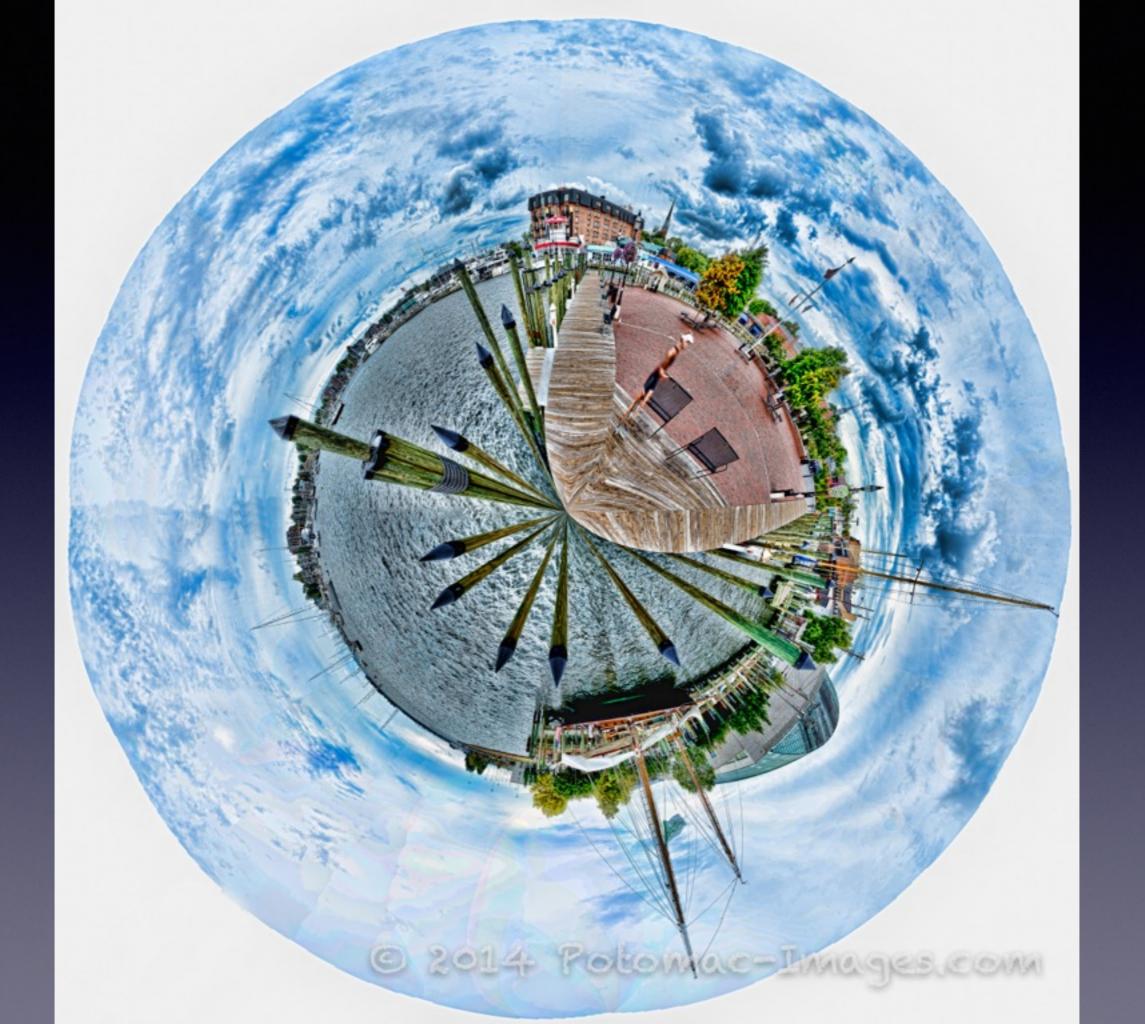


Making a Planet

or,
Playing with 360 degree Panoramas







Planet Steps

- Shoot 360 degree panorama (20-25 images)
- Standardize color and exposure in ACR or LR with synchronize
- Merge with Photoshop Photomerge from LR
- Crop image and clip sides to match end to end
- Resize to 8000 by 8000 pixels
- Rotate image 180 degrees, otherwise you get a "tunnel"
- Wrap using "Filter/Distort/Polar Coordinates"
- Clean up using Crop, Stamp, Filters, etc.

