

# 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
- ...

# Demonstration

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





# Making a Planet

or,

Playing with 360 degree Panoramas





© 2014 PotomacImages.com





© 2014 Potomac-Images.com





© 2014 Potomac-Images.com



# 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.



© 2014 Potomac-Images.com





© 2014 Potomac-Images.com





© 2014 Potomac-Images.com





© 2014 Potomac-Images.com





© 2014 Potomac-Images.com





© 2014 Potomac-Images.com