

# All About Lenses

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# Wide Angle Lenses

- Typically wider than 35mm
- Most widely used to capture more of the scene



\* full frame equivalent



# Did you know?

- They also allow you to get closer to your subject? (Not same as Macro)
- When shooting at night, wider lens allow you to shoot with longer shutter duration before stars stop being points (500 rule)





# Did you know?

- Can make large objects look really small
- Can cause distortion on the edges





# Telephoto Lenses

- Typically 70mm and longer
- Most widely used to get closer to far away objects
- Portrait lens





# Did you know?

- Can be used to create wide scene high mega pixel panoramas
- They can make objects far from each other look closer (Compression)



Full res is 31,664 x 8029 (254 MP)



About 1 1/2 miles away



# Did you know?

- They can be used to blur backgrounds (Bokeh)
- Isolate subject





# Specialty Lenses

Tilt - Shift



Distorsion control

Macro/Micro



Macro = 1:1 magnification



# Specialty Lenses

Fisheye



Purposefully distorted

Big aperture glass



Aperture larger than F2.8



# Common lens terms

- APS-C, micro 4/3
- Image vibration reduction (VR, IS, OSS, OIS) vs in body
- Prime vs Zoom
- Variable vs fixed aperture
- Holy Trinity
- Lens hood
- Lens foot



# "Walk around" lenses

- Typically a larger focal length range (24-300, 18-200, 24-105 etc)
- Often times has variable aperture (ie f4.5-5.6)
- Give up some quality and or speed for range



Sigma 24-105 F4



# How do I choose what to take?

- I almost always take my standard zoom (24-70, 24-120)
- "What do I need to bring to get the shot I'm looking for" or something different than what others have taken.
- Do I need a specialty lens?
- How many lenses can I, do I, or should I take?
- Am I traveling or walking a long way to get to destination? (Weight or space a factor?)
- Is weather a factor?
- Do I want to use filters?



# Do you need to buy another lens?

- Biggest thing to ask yourself is what shots are you currently not able to get that you want to?
- Are you looking for wider or longer focal length, faster aperture, lighter weight, or better quality?
- Prime vs zoom
- Specialty lens



- Remember you "date your camera body but marry your lens"



Questions?