

Flash Photography 101



August 22, 2015

Agenda

- ❖ **9:00 - 9:45 - Presentation**

- ❖ Introduction to Flash Photography

- ❖ TTL vs Manual

- ❖ Flash Sync Modes

- ❖ Elements of Light

- ❖ Light Modifiers

- ❖ **9:45 - 12:30 - Hands On Demo**

- ❖ Flash On Camera

- ❖ Off Camera Flash

- ❖ **12:30 - 1:00 - Questions & General Discussion**

Introduction to Flash Photography

- ❖ What is Flash Photography
- ❖ When to Use Flash Photography
- ❖ Types of Flash Units
 - ❖ small
 - ❖ large
 - ❖ specialty

TTL vs Manual

- ❖ Through The Lens (ETTL, iTTL, PTTL, etc.)
 - ❖ metering and amount of flash output is determined by the camera
 - ❖ use when the distance between the subject and flash varies

TTL vs Manual (cont.)

❖ Manual

- ❖ you control the amount of flash output
- ❖ use when the distance between the subject and flash does not change

Flash Sync Modes

- ❖ Normal Flash Sync
 - ❖ is camera specific, usually a shutter speed up to 1/200 - 1/250 sec
- ❖ High Speed Sync*
- ❖ 1st and 2nd Curtain Sync*

* Will cover in a future class

Elements of Light

- ❖ Direction
- ❖ Intensity or Brightness
- ❖ Quality
- ❖ Color

Elements of Light (cont.)

Direction

- ❖ Determines where shadows fall
- ❖ Can be used to add or remove texture
- ❖ Light directly in front of subject will produce a “flat image”

Elements of Light (cont.)

Intensity or Brightness

- ❖ Amount of light
- ❖ Will effect your camera settings more than any other element of light

Elements of Light (cont.)

Quality

- ❖ Determined by:
 - ❖ size of the light source
 - ❖ distance from subject

Elements of Light (cont.)

Quality (cont.)

- ❖ Small light sources produce harsh light
 - ❖ the sun is a small light source because of its distance from earth

Elements of Light (cont.)

Quality (cont.)

- ❖ Large light sources produce soft light
 - ❖ overcast day the entire sky is the light source...very large soft light

Elements of Light (cont.)

Color

- ❖ Camera color output is based on the Kelvin Scale
- ❖ We are not going to jump into this today except to show you the effect of bouncing your flash off of a colored surface

Light Modifiers

- ❖ Anything that can be used to change one or more of the Elements of Light
 - ❖ reflectors - change the direction of the light
 - ❖ diffusers - change the size of the light source
 - ❖ gels - change the color of the light

Light Modifiers (cont.)

- ❖ Today we will use
 - ❖ reflectors
 - ❖ diffusers
 - ❖ and a technique called bouncing the light which combines both changing the direction and diffusing the light source

Hands On Demo

- ❖ On Camera Flash

- ❖ we will use TTL mode today

Then we will take a short break

- ❖ Off Camera Flash

- ❖ we will discuss equipment needed
 - ❖ we will venture into manual mode

Off Camera Flash Connections

- ❖ PC Sync Cord
- ❖ IR Transmitter/Receiver
- ❖ Radio Transmitter/Receiver
- ❖ Manufacturer Lighting System - i.e., Canon and Nikon have technology built into the flash units that can trigger other flash units