

DAY 18

Manual Camera Settings Primer

An instructional template + content exercise

MANUAL CAMERA SETTINGS PRIMER: BASICS 1

This reference card introduces the fundamental tradeoffs of basic camera controls. If your image is too bright or dark, adjust one of the controls in the indicated direction.

LESS AVAILABLE LIGHT

Use bigger apertures, long shutter, higher ISO to get the shot.

MORE AVAILABLE LIGHT

Use small apertures, short shutter, lower ISO for sharper images.



light sensitivity range of human eye

too little light = black range of DSLR too much light = white

A camera can capture only a limited range of light. You can move the range to match location conditions.

OBSERVE CONDITIONS

Your eye can effortlessly handle the entire range of lighting conditions shown in the images to the left. Your camera can not, because it has limited light capturing range. Your manual camera settings can optimize how that range is used, resulting in a "well exposed" image.

LOWER SENSITIVITY TO LIGHT
for bright locations

ISO	ISO	ISO	ISO	ISO
100	200	400	800	1600

Highest quality. Fewer compromises needed to capture enough light to register an image.

HIGHER SENSITIVITY
for dark locations

Noisy images although shooting with low light becomes possible, images may be extremely noisy.

SET CAMERA SENSITIVITY

Start by matching your ISO setting to available light. Outside, use lower ISOs. Inside, use higher ones. Be aware that high ISO setting can produce noisy results depending on your camera.

BIGGER APERTURE FOR LIGHT INTAKE!

brighter + more light per second



shallow depth of field blurry foreground/background compared to focused subject

SMALLER APERTURE

less light per second + darker

greater depth of field sharper foreground/background compared to focused subject

SET APERTURE & SHUTTER

By controlling how fast light comes into the camera (aperture) and how long to capture (shutter), we strive to balance a full range of lights and darks with the subjects sharply in focus.

Compromise is part of photography. A larger aperture captures more light, but can make focus too soft. A longer shutter captures more light too, but camera shake will cause blurriness.

If a sharp image is not your goal, then these effects can be used artistically.

SHORTER SHUTTER DURATION

darker + less time to capture

LONGER SHUTTER

more time to capture + brighter



shorter light captured versus time

exposure time measured in fractions of a second: 1/500

shutter setting usually units the fraction/sec: 500

Photography Manual Primer

Shasha Hu



Photography Manual Primer:

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