

A digital photography book that truly starts at the beginning.

The No Nonsense Guide To Digital Photography

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The No Nonsense Guide To Digital Photography

2007 E-Published

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PREFACE

This e-book is purposely formatted so you can cut it to a 5 ¾" by 8" size and it will fit in most camera bags or backpacks. I suggest you either three-hole punch it and put in a ring-binder or take it to a print shop and have it spiral bound either along the left-hand side or the top. Be sure to laminate both the front and back cover to add rigidity to the covers.

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No Nonsense Guide To Digital Photography

Introduction

My goal for *The No Nonsense Guide To Digital Photography* e-book is to make it easier for non-professional photographers using



digital cameras to understand how to use this wonderful technology. Most user manuals packed with cameras are not user-friendly - frankly people just give up trying to decipher what the manual is trying to tell them. This e-book lays out in clear understandable terms and language what the manuals don't or can't do.

I would use this feature if I were going to take some photos hand-holding the camera in a cathedral or museum or some other place not allowing the use of a flash.

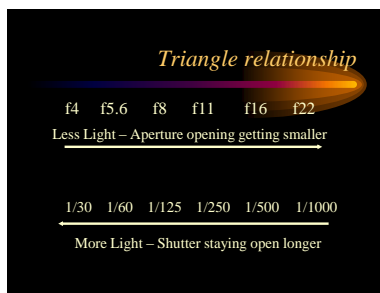
With the ISO set at 100, aperture at f8 and shutter speed at 1/20th second, I probably would not get a good photo in focus due to the slow shutter speed. But by changing the ISO to 400, I now have enough shutter speed to handhold the camera. Now some would say, why don't I kick up the shutter speed. I could do that, but then I would have to compensate by also adjusting the aperture to keep the exposure correct. By adjusting just the ISO, I let the camera pick the correct shutter speed for me.

Aperture/Shutter Speed relationship

Now I want to discuss the inter-relationship between aperture and shutter speed.

With my camera set on program mode, the camera will select the aperture and shutter speed based on the information it receives coming into the camera. This information is known as the exposure settings.

Let's say the camera selected f8 at 1/125th second for a scene we are about to photograph. These aperture and shutter speed settings will give me an acceptable exposure.



However, I want more of the scene in focus than what f8 gives me, so I stop down the aperture two stops to f16. By doing this I created a smaller opening for the light to come in and record the scene on the camera's sensor. The resulting photo will be too dark.

To compensate for this I have to slow down my shutter speed by two stops down to 1/30th second.

Now with my aperture set at f16 and my shutter speed set at 1/30th second, the same amount of light will come into the sensor as it would with my settings at f8 and 1/125th second.

Think of it as water flowing through a pipe. If I let the water flow through a set size pipe for a set number of seconds, I will have X number of gallons.

However, if I reduce the diameter of the pipe and assuming the water is flowing at the same gallons per minute setting as before, to get the same amount of water through the pipe, I will have to let it flow longer. It is the same concept only done with light instead of water.

Resolution

Resolution typically refers to the quality of the photo. The settings can vary from just a couple to choose from to a selection of many. Picking a resolution depends on what you intend to do with the photos.

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