

Aperture



<- Less light through the lens. More depth-of-field.
More light through the lens. Less DOF->

Shutter Speed



<- Less light through the shutter. Faster action
More light through the shutter. Slower action.
1/200 typical max. flash sync.

ISO



Higher ISO values will create
more noise or digital grain.

Picture Control with Exposure Settings

Depth-of-Field Control Using only aperture value

1/500 f2.8 ISO 400 Less DOF (Your lens may not go to this value.)
1/125 f5.6 ISO 400 More DOF less action
1/60 f8 ISO 400 More DOF less action

Action Control using only ISO and shutter speed recommendations

1/60 f5.6 ISO 400 Minimal action
1/125 f5.6 ISO 800 More action - **Walking person**
1/250 f5.6 ISO 1600 More action
1/500 f5.6 ISO 3200 More action - **Running person**
1/1000 f5.6 ISO 6400 More action - **Minimal for bird in flight**
1/2000 f5.6 ISO 12800 More action - **Minimal moving vehicle**

Always remember that the minimal shutter speed is at least the same as the focal length.

Exposure Triangle: These are all the same exposure. If your exposure is good then adjusting one item needs a corresponding change.

1/60 f5.6 ISO 400	1/250 <u>f11</u> ISO <u>6400</u>	1/ <u>500</u> f8 ISO 6400
1/ <u>125</u> f5.6 ISO <u>800</u>	1/ <u>500</u> f8 ISO <u>6400</u>	1/ <u>325</u> f8 ISO <u>4000</u>
1/ <u>250</u> f5.6 ISO <u>1600</u>	1/ <u>250</u> f8 ISO <u>3200</u>	1/ <u>500</u> <u>f10</u> ISO <u>10,000</u>
1/250 <u>f8</u> ISO <u>3200</u>	1/250 <u>f11</u> ISO <u>6400</u>	1/500 <u>f6.3</u> ISO <u>4000</u>

The last three show using 1/3 increments which is the camera default.