

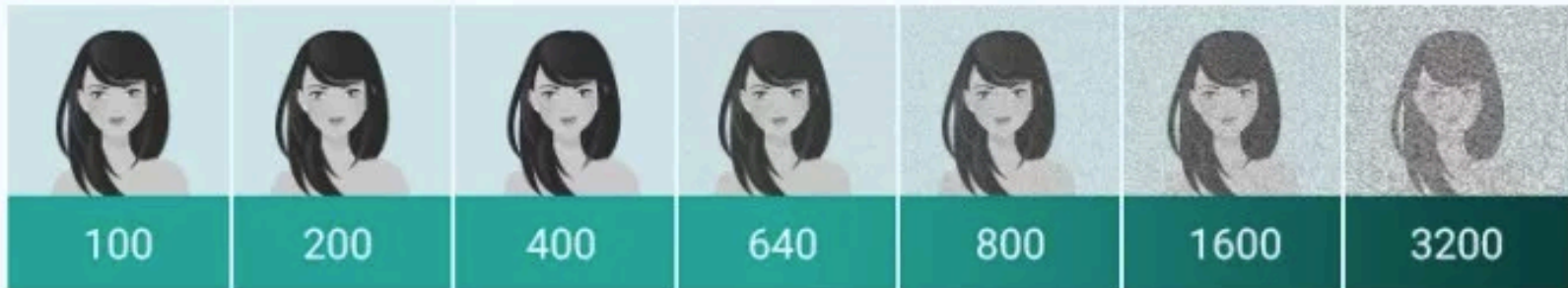
ISO



Kmetz



17strevdav



LESS NOISE, CRISPER IMAGE

MORE NOISE, SCRUFFY IMAGE

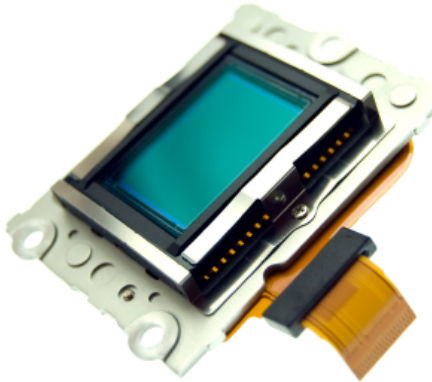
100	200	400	800	1600	3200	6400
Sunny day			Dawn	Dawn		Night
Outdoors			Twilight	Twilight		Astro
		Med. motion	Sports	Sports		Low light

Darker


Lighter

ISO: Sensitivity of Sensor:

Photons -> electrons -> adjust gain (ISO)



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WHEN TO INCREASE YOUR ISO

When all other exposure options have run out you can increase the ISO, or sensitivity

STRONG LIGHT PRODUCES A STRONG SIGNAL THAT DOESN'T NEED TO BE AMPLIFIED

STRONG SUNLIGHT

This doesn't need amplifying, so the ISO can be left at its lowest setting




Bright light produces a strong signal

The image gets the strong signal it needs and shows little or no noise

LOW LIGHT PRODUCES A WEAKER SIGNAL AND AMPLIFYING IT WILL ALSO AMPLIFY THE NOISE

WEAK CANDLELIGHT

The ISO has to be increased to produce a strong enough signal for the image



The signal from a very dim light source is very weak

This also amplifies the background noise in the image, which is why high-ISO shots are noisy

Matt Golowcznski, Digital Camera World

Prepared by T. Riseman