equal to zoom n mm

Hand shake!

Exposure time (a.k.a. shutter speed):

The time the shutter is open

Dancing pig, all at ISO 100. Light overcast.















0.5 sec at f / 32

1/8 sec at f / 32

1/15 sec at f / 32

1/25 sec at f / 32

1/50 sec at f / 32

	Bulb or timer	15s 10s	5s 1s	1/25s 1/50s	1/100 1/250	1/500s 1/1000s	1/2000s 1/8000s
		Night		Outdoors			Sports
	Light painting	Blurry shots		Family shots			Action shots
	Star streaks	Low light		Sunny days			Wildlife
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Ray tracing with spaghetti.

Same aperture. Pretend exposure times of 1/100 s and 1/50 s; 1 stop apart. (Really 0.0000000000043 s and 0.000000000085 s!) The longer spaghetti/ exposure time will make twice as bright a photo.



Ordinary photo. 1/80 s at f/5.6, ISO 3200

T. Riseman



Short time: Freeze motion

1/200 s at f/25, ISO 1000, TTL Flash 28-105mm lens, with +4 diopter filter

Star Trails, Fireworks and Light Painting: Adjusting time changes
length of streaks not local brightness!



1 s at f/11, ISO 200

Motion blur from long time



1/500 s, 1/30 s, and 1/4 s.

Nevit Dilmen

r. Riseman