



iPHOTOGRAPHY COURSE

500 Rule Cheat Sheet Resource

The 500 Rule equation

$$\frac{\text{Focal Length} \times \text{*Crop Factor}}{500}$$

500

= The longest possible exposure time before stars blur.

**Crop factor does not need to be taken into consideration if your camera is full frame or using 35mm film.*

Lens Focal Length

Crop Factor

	15mm	18mm	35mm	50mm	85mm	100mm
0.5	66 sec	55 sec	28 sec	20 sec	11 sec	10 sec
0.8	41 sec	34 sec	17 sec	12 sec	7 sec	6 sec
1.0	33 sec	27 sec	14 sec	10 sec	5 sec	5 sec
1.3	25 sec	21 sec	10 sec	8 sec	4 sec	3 sec
1.5	22 sec	18 sec	9 sec	7 sec	3 sec	3 sec
1.6	20 sec	17 sec	8 sec	6 sec	3 sec	3 sec
1.8	18 sec	15 sec	7 sec	5 sec	2 sec	2 sec
2.7	12 sec	10 sec	5 sec	4 sec	2 sec	1 sec
3.9	8 sec	7 sec	4 sec	3 sec	1 sec	1 sec
4.5	7 sec	6 sec	3 sec	2 sec	1 sec	1 sec
5.6	5 sec	5 sec	2 sec	1 sec	1 sec	1/80 th

***All timings are in seconds and are rounded down to the nearest second to avoid blur.*