

ND Filter Calculator

No filter	1/4000s	1/2000s	1/1000s	1/500s	1/250s	1/125s	1/60s	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	No filter
1 stop	1/2000s	1/1000s	1/500s	1/250s	1/125s	1/60s	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	ND2
2 stop	1/1000s	1/500s	1/250s	1/125s	1/60s	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	ND4
3 stop	1/500s	1/250s	1/125s	1/60s	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	ND8
4 stop	1/250s	1/125s	1/60s	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	ND16
5 stop	1/125s	1/60s	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	ND32
6 stop	1/60s	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	ND64
7 stop	1/30s	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	64min	ND128
8 stop	1/15s	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	64min	128min	ND256
9 stop	1/8s	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	64min	128min	256min	ND512
10 stop	1/4s	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	64min	128min	256min	512min	ND1024
11 stop	1/2s	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	64min	128min	256min	512min	1024min	ND2048
12 stop	1s	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	64min	128min	256min	512min	1024min	2048min	ND4096
13 stop	2s	4s	8s	15s	30s	1min	2min	4min	8min	16min	32min	64min	128min	256min	512min	1024min	2048min	4096min	ND8192

The top row contains exposure times without a filter.

Based upon the correct exposure without a filter, calculate the long exposure by choosing the number of stops on the left of the chart and move to the right to find the corresponding exposure time below the unfiltered exposure.