

10 X NEUTRAL DENSITY CONVERSION CHART FOR B&W 110

WITHOUT FILTER	2 Secs	1.6 Secs	1.3 Secs	1 Sec	0.8 Sec	0.6 Sec	0.5 Sec	0.4 Sec	0.3 Sec	1/4 Sec	1/5 Sec	1/6 Sec
10X FILTER	32 Mins	26 mins 40 Secs	21 Mins 20 Secs	16 Mins	13 Mins 20 Secs	10 Mins 40 Secs	8 Mins	6 Mins 40 Secs	5 Mins 20 Secs	4 Mins	3 Mins 20 Secs	2 Mins 40 Secs
WITHOUT FILTER	1/8 Sec	1/10 Sec	1/13 Sec	1/15 Sec	1/20 Sec	1/25 Sec	1/30 Sec	1/40 Sec	1/50 Sec	1/60 Sec	1/80 Sec	1/100 Sec
10X FILTER	2 Mins	1Min 40Secs	1Min 20Secs	1 Min	50 Secs	40 Secs	30 Secs	25 Secs	20 Secs	15 Secs	13 Secs	10 Secs
WITHOUT FILTER	1/125 Sec	1/160 Sec	1/200 Sec	1/250 Sec	1/320 Sec	1/400 Sec	1/500 Sec	1/640 Sec	1/800 Sec	1/1000 Sec	1/1250 Sec	1/1600 Sec
10X FILTER	8 Secs	6 Secs	5 Secs	4 Secs	3.2 Secs	2.5 Secs	2 Secs	1.6 Secs	1.3 Secs	1 Sec	0.8 Sec	0.6 Sec
WITHOUT FILTER	1/2000 Sec	1/2500 Sec	1/3200 Sec	1/4000 Sec	1/5000 Sec	1/6400 Sec	1/8000 Sec					
10X FILTER	0.5 Sec	0.4 Sec	0.3 Sec	1/4 Sec	1/5 Sec	1/6 Sec	1/8 Sec					

6 X NEUTRAL DENSITY CONVERSION CHART FOR B&W 106

WITHOUT FILTER	30 Secs	25 Secs	20 Secs	15 Secs	13 Secs	10 Secs	8 Secs	6 Secs	5 Secs	4 Secs	3.2 Secs	2.5 Secs
6X FILTER	32 Mins	26 mins 40 Secs	21 Mins 20 Secs	16 Mins	13 Mins 20 Secs	10 Mins 40 Secs	8 Mins	6 Mins 40 Secs	5 Mins 20 Secs	4 Mins	3 Mins 20 Secs	2 Mins 40 Secs
WITHOUT FILTER	2 Secs	1.6 Secs	1.3 Secs	1 Sec	0.8 Sec	0.6 Sec	0.5 Sec	0.4 Sec	0.3 Sec	1/4 Sec	1/5 Sec	1/6 Sec
6X FILTER	2 Mins	1Min 40Secs	1Min 20Secs	1 Min	50 Secs	40 Secs	30 Secs	25 Secs	20 Secs	15 Secs	13 Secs	10 Secs
WITHOUT FILTER	1/8 Sec	1/10 Sec	1/13 Sec	1/15 Sec	1/20 Sec	1/25 Sec	1/30 Sec	1/40 Sec	1/50 Sec	1/60 Sec	1/80 Sec	1/100 Sec
6X FILTER	8 Secs	6 Secs	5 Secs	4 Secs	3.2 Secs	2.5 Secs	2 Secs	1.6 Secs	1.3 Secs	1 Sec	0.8 Sec	0.6 Sec
WITHOUT FILTER	1/125 Sec	1/160 Sec	1/200 Sec	1/250 Sec	1/320 Sec	1/400 Sec	1/500 Sec	1/640 Sec	1/800 Sec	1/1000 Sec	1/1250 Sec	1/1600 Sec
6X FILTER	0.5 Sec	0.4 Sec	0.3 Sec	1/4 Sec	1/5 Sec	1/6 Sec	1/8 Sec	1/10 Sec	1/13 Sec	1/15 Sec	1/20 Sec	1/25 Sec

How to use this chart

1. Achieve the correct exposure for the subject without the filter in place and take a note of the exposure settings.
2. Set the camera to Manual Exposure and dial in the settings for the correct exposure without the filter.
3. look for your **WITHOUT FILTER** shutter speed on the chart and your new exposure time is directly underneath it on the line below.
4. If the shutter speed time exceeds the time that you camera can achieve on the **MANUAL** setting, change to the **BULB** setting and dial in your chosen Aperture.

For Example: If your **WITHOUT FILTER** shutter speed is **1/30 Sec** and you wanted to use the **10X Filter**

- (a) Look on the **10X chart** on the **WITHOUT FILTER** row, for **1/30 Sec**
- (b) The shutter Speed directly underneath this on the **10X FILTER** filter row is **30 Secs**
- (c) Dial into your camera, your new shutter speed of **30 Secs**