

INFORMATION
for
Landscape photography

Photographers Ephemeris www.photoephemeris.com/tpe

Hyperfocal Distance Chart Attached

Long Exposure chart for use with Filters Attached

Lee Filters www.leefilters.com for Graduated and ND filters, see my note on time chart long exposure using Lee slider Ten stop

Lee sell the kit for attaching filters i.e. O Ring and filter holder.

B&W Filters - Neutral Density filters - ND 106 & ND110

B&W Filters - Polariser Filter

Morco Ltd - Lee and B&W Filters www.morco.uk.com

NIK Collection - Silver efex pro 2 - Viveza/ Colour efex pro.

It is possible Silver efex may now be free. I paid for mine.

Fotospeed Paper Based in Corsham www.fotospeed.com

Ginn's Framing 35, Parsonage Street, Dursley (Mounts)

Research www.flickr.com photo website and Google Earth.

“Inspiring Professionals” The Landscape photographer's guide to using filters. It can be purchased from Lee filters approx £12.

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HYPERFOCAL DISTANCE CHART

for 50% to infinity in
METRES

METRES	f2.8	f4	f5.6	f8	f11	f16	f22
16 mm	3.0	2.1	1.5	1.1	0.8	0.6	0.4
24mm	6.8	4.8	3.4	2.4	1.7	1.2	0.9
28mm	9.3	6.6	4.6	3.3	2.3	1.6	1.2
35mm	14.5	10.2	7.3	5.1	3.6	2.5	1.8
50mm	29.5	20.9	14.8	10.5	7.4	5.2	3.7
80mm	75.5	53.4	37.8	26.7	18.5	13.4	9.5
100mm	117.0	83.4	59.0	41.8	29.6	21.0	14.8
135mm	215.0	152	108	76	54	38	27
200mm	472	334	236	167	118	84	59

The closest distance at which a lens can be focused while keeping objects at infinity sharp.
ie. The maximum depth of field for a given combination of focal length and aperture. When the lens is focused at this distance, all objects at distances from half the hyper focal distance out to infinity will be acceptably sharp.

Test using live view and zoom in and check depth of field.

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LONG EXPOSURE TIMES FOR NEUTRAL DENSITY FILTERS (ND)

Initial shot On Aperture Priority EXPOSURE	ND 110 10 stop	ND 106 6 stop	ND 103 3 stop
1/100	10 Sec	0.64 Sec	0.08 Sec
1/80	12.5	0.80	0.10
1/60	16.6	1.06	0.13
1/50	20.0	1.28	0.16
1/40	25.0	1.60	0.20
1/30	33.0	1.92	0.26
1/25	40.0	2.56	0.32
1/20	50.0	3.20	0.40
1/15	66.0	4.30	0.53
1/13	77.0	4.92	0.61
1/10	100.0	6.40	0.80
1/8	125.0	8.00	1.00
1/6	166.0	10.60	1.33
1/5	200.0	12.80	1.60
1/4	250.0	16.00	2.00
1/3	333.0	21.30	2.66
1/2.5	400.0	25.60	3.20
1/2	500.0	32.00	4.00
1/1.6	625.0	40.00	5.00
1/1.3	769.0	49.30	6.15
1/1	1000.0	64.00	8.00

If Polariser Filter and Graduated filters are attached this will extend the exposure time.

Filters are expensive. The ones I use most are Lee 0.9s soft Graduated filter, B&W Neutral Density ND 106, and a B&W Polariser. On a dull day the ND106 with a polariser on f14 or f16 could give a reasonable long exposure say 30sec depending on conditions.

B & W ND110 . I use quite often and is great for creative clouds and interesting water effects. It is fun to use as the end result is a SURPRISE!!

I use B&W for ND filters because they screw on. It is possible light leakage could occur with LEE'S slide in Big Stopper. This ten stop must be placed next to the lens

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