

For anybody not familiar with it, the hyperfocal distance is the closest distance at which you can focus the lens and still have objects at infinity appear to be sharp. Focus any closer and the mountain will look fuzzy.

It turns out that if you focus at the hyperfocal distance, then things in the foreground will also appear sharp starting at half the hyperfocal distance. If the hyperfocal distance is 10 feet and you focus at 10 feet, then everything from 5 feet to infinity will appear sharp.

The hyperfocal distance depends on the focal length of the lens and the size of the aperture. That's enough combinations that a table is useful. What I like to do is

1. compose the picture
2. note how far it is to the closest thing that has to be sharp
3. note on the camera the focal length I used for the composition
4. look in the table to find the hyperfocal distance (twice what you found in step 2) and also the required aperture
5. focus at the hyperfocal distance and set the aperture.
6. shoot the picture.

When I can, I'll reduce the aperture a stop or two just to be on the safe side (I don't always estimate the distance correctly.) That is, if the table calls for $f/8$, I'll make it $f/11$ if I can. You can't always do that—maybe there's a tree or flower moving with the wind and you need the fastest shutter speed possible. But if it's all rocks from here to infinity, I say crank it down a stop.

Even if I'm not going to use the chart and just set the aperture to $f/32$, I still focus at twice the distance to the closest thing that has to be sharp. I just swing the camera around to something twice as far away, let it autofocus, switch to manual so it won't refocus when I take the picture, and swing the camera back. This maximizes the chances of having everything sharp.

In feet		Focal length, mm																	
close focus point	at	24	28	32	36	40	45	50	60	80	100	150	200	300	350	400	450	500	
2	4	19	27																
3	6	13	19	22	32														
4	8	9.5	13	19	22	27													
5	10	8	11	13	19	22	27												
6	12	6.7	9.5	11	16	19	22	32											
7	14	5.6	8	11	13	16	19	27											
8	16	4.5	6.7	9.5	11	13	19	22	32										
9	18	4.5	6.7	8	9.5	13	16	19	27										
10	20	4	5.6	6.7	9.5	11	13	19	27										
11	22	4	4.5	6.7	8	9.5	13	16	22										
12	24	3.5	4.5	5.6	8	9.5	11	16	22										
13	26	3.5	4.5	5.6	6.7	9.5	11	13	19										
14	28	2.8	4	5.6	6.7	8	9.5	13	19	32									
15	30	2.8	4	4.5	6.7	8	9.5	11	16	32									
20	40	2	2.8	4	4.5	5.6	6.7	9.5	13	22									
25	50	1.8	2.5	2.8	4	4.5	5.6	6.7	9.5	19	27								
30	60	1.4	2	2.5	2.8	4	4.5	5.6	8	16	22								
40	80		1.4	2	2.5	2.8	3.5	4.5	6.7	11	19								
50	100		1.2	1.4	2	2.5	2.8	3.5	4.5	9.5	13	32							
75	150				1.2	1.4	2	2.5	3.5	5.6	9.5	22							
100	200					1.2	1.4	1.8	2.8	4.5	6.7	16	27						
150	300							1.2	1.8	2.8	4.5	11	19						
200	400								1.4	2.5	3.5	8	13	32					
300	600									1.4	2.5	5.6	9.5	22	27				
350	700									1.4	2	4.5	8	19	27	32			
400	800									1.2	1.8	4	6.7	16	22	27			
450	900										1.8	3.5	6.7	13	19	27	32		
500	1000										1.4	3.5	5.6	13	19	22	27		

Impossible. f/32 is too large.

Anything f/1 or smaller will work

To make it smaller to carry, use this:

In feet																		
Close	focus																	
point	at	24	28	32	36	40	45	50	60	80	100	150	200	300	350	400	450	
2	4	19	27															
3	6	13	19	22	32													
4	8	9.5	13	19	22	27												
5	10	8	11	13	19	22	27											
6	12	6.7	9.5	11	16	19	22	32										
7	14	5.6	8	11	13	16	19	27										
8	16	4.5	6.7	9.5	11	13	19	22	32									
9	18	4.5	6.7	8	9.5	13	16	19	27									
10	20	4	5.6	6.7	9.5	11	13	19	27									
11	22	4	4.5	6.7	8	9.5	13	16	22									
12	24	3.5	4.5	5.6	8	9.5	11	16	22									
13	26	3.5	4.5	5.6	6.7	9.5	11	13	19									
14	28	2.8	4	5.6	6.7	8	9.5	13	19	32								
15	30	2.8	4	4.5	6.7	8	9.5	11	16	32								
Impossible. f/32 is too large.																		
In feet																		
Close	focus																	
point	at	24	28	32	36	40	45	50	60	80	100	150	200	300	350	400	450	
20	40	2	2.8	4	4.5	5.6	6.7	9.5	13	22								
25	50	1.8	2.5	2.8	4	4.5	5.6	6.7	9.5	19	27							
30	60	1.4	2	2.5	2.8	4	4.5	5.6	8	16	22							
40	80		1.4	2	2.5	2.8	3.5	4.5	6.7	11	19							
50	100		1.2	1.4	2	2.5	2.8	3.5	4.5	9.5	13	32						
75	150			1.2	1.4	2	2.5	3.5	5.6	9.5	22							
100	200				1.2	1.4	1.8	2.8	4.5	6.7	16	27						
150	300							1.2	1.8	2.8	4.5	11	19					
200	400								1.4	2.5	3.5	8	13	32				
300	600									1.4	2.5	5.6	9.5	22	27			
350	700									1.4	2	4.5	8	19	27	32		
400	800									1.2	1.8	4	6.7	16	22	27		
450	900										1.8	3.5	6.7	13	19	27	32	
500	1000											1.4	3.5	5.6	13	19	22	27
Anything f/1 or smaller will work																		

Print it, cut it out, cut along the line between the top and bottom sections, use double sided tape to tape the sections back to back, laminate. Fits in your pocket but I like your idea of attaching it to the tripod better.