



BOLEX TECHNICAL BULLETIN

PAILLARD Incorporated, 100 Sixth Avenue, New York 13, New York

Charts for 12.5 and 13 mm Standard Lenses

FIELD SIZES

Distance to Subject, Feet	Width ft. in.	Height ft. in.
3/4	3	2 1/4
1	4 1/4	3
1 1/4	5	3 3/4
1 1/2	6	4 1/2
2	8 1/2	6 1/4
2 1/2	10 3/4	8
3	1	9 1/2
4	1 5	1 2
6	2 2	1 7
12	4 4	3 2
60	21	15 6
Infinity		

FIXED FOCUS SETTING

f/0.9	30'
1.5	18'
1.8	14'
2.8	10'
4	7'
5.6	5'
8	3 1/2'
11	2 1/2'
16	2'
22	1 1/2'

When the scale on a focusing mount lens is set to this distance (hyperfocal distance), the depth of field extends from half this distance to infinity.

MINIMUM FILMING DISTANCES FOR FIXED FOCUS LENSES

Fixed focus lenses render sharp pictures from infinity down to the following distances:

f/1.9	8'
2.5	6 1/2'
4	4 3/4'
5.6	3 1/2'
8	2 3/4'
11	2'
16	1 1/2'
22	1 1/4'

These minimum distances are engraved in orange or some lenses.

DISTANCES ARE ALWAYS MEASURED FROM THE FILM PLANE.

DEPTH OF FIELD

Distance to Subject, Feet	f/0.9		f/1.5		f/1.8 f/1.9 f/2		f/2.5 f/2.8		f/4		f/5.6		f/8		f/11		f/16	
	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
3/4	8 3/4"	9 1/4"	8 1/2"	9 1/2"	8 1/2"	9 1/2"	8 1/2"	10"	8"	10"	8"	11"	7"	1'	7"	1' 1"	6"	1' 4"
1	11 1/2"	12 1/2"	11 1/2"	1' 1"	11"	1' 1"	1' 1"	1' 1"	1' 10"	1' 2"	10"	1' 3"	9"	1' 5"	8"	1' 8"	8"	2' 6"
1 1/4	14 1/2"	15 1/2"	1' 2"	1' 4"	1' 2"	1' 4"	1' 1"	1' 5"	1'	1' 6"	1'	1' 8"	11"	2'	10"	2' 7"	9"	5' 3"
1 1/2	1' 5"	1' 7"	1' 5"	1' 8"	1' 4"	1' 8 1/2"	1' 3"	1' 9"	1' 2"	1' 11"	1' 1"	2' 2"	1'	3' 3"	11"	4'	10"	16'
2	1' 10"	2' 2"	1' 9"	2' 3"	1' 9"	2' 4"	1' 8"	2' 6"	1' 6"	2' 10"	1' 5"	3' 6"	1' 3"	5'	1' 1"	12'	11"	Inf.
2 1/2	2' 3"	2' 9"	2' 2"	2' 11"	2' 1"	3' 1"	2'	3' 5"	1' 9"	4'	1' 7"	5' 4"	1' 5"	10'	1' 3"	Inf.	1'	Inf.
3	2' 9"	3' 4"	2' 9"	3' 7"	2' 5"	3' 11"	2' 3"	4' 5"	2'	5' 6"	1' 9"	8' 3"	1' 6"	33'	1' 4"	Inf.	1' 1"	Inf.
4	3' 6"	4' 8"	3' 3"	5' 2"	3'	5' 8"	2' 9"	7'	2' 6"	10'	2' 2"	27'	1' 8"	Inf.	1' 6"	Inf.	1' 2"	Inf.
6	5'	7' 7"	4' 6"	9'	4' 1"	11'	3' 9"	16'	3' 3"	66'	2' 7"	Inf.	2' 1"	Inf.	1' 8"	Inf.	1' 4"	Inf.
12	8' 6"	20'	7'	38'	6' 3"	120'	5' 3"	Inf.	4' 3"	Inf.	3' 5"	Inf.	2' 7"	Inf.	2'	Inf.	1' 5"	Inf.
60	20' 6"	Inf.	13' 6"	Inf.	11'	Inf.	8' 2"	Inf.	6'	Inf.	4' 4"	Inf.	3' 1"	Inf.	2' 4"	Inf.	1' 7"	Inf.
Inf.	30' 6"	Inf.	17'	Inf.	13'	Inf.	9' 6"	Inf.	6' 7"	Inf.	4' 8"	Inf.	3' 4"	Inf.	2' 5"	Inf.	1' 8"	Inf.

This table is based on a circle of confusion of 1/1250".