

OPTIMO 56 - 152

DEPTH-OF-FIELD TABLES
DISTANCE IN METERS

Angénieux®






DEPTH-OF-FIELD TABLES

F = 56 - 152 mm

The depth of field tables are provided for informational purposes only and are estimated with a circle of confusion of 0.025mm (1/1000inch). The width of the sharpness zone grows proportionally with the focus distance and aperture and it is inversely proportional to the focal length. In practice the depth of field limits can only be defined accurately by performing screen tests in true shooting conditions.



TABLES DE PROFONDEUR DE CHAMP
F 56 - 152 mm

Les tables de profondeur de champs sont fournies à titre indicatif pour un cercle de confusion moyen de 0,025mm (1/1000inch)

La profondeur de champ augmente proportionnellement avec la distance de mise au point ainsi qu'avec le diaphragme et est inversement proportionnelle à la focale.

Dans la pratique, seuls des essais filmés dans des conditions de tournage vous permettront de définir les bornes de cette profondeur de champ avec un maximum de précision

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		8.376	6.08	4.358	3.256	2.273	1.676
25 m	Far	∞	∞	∞	∞	∞	∞
	Near	12.526	10.463	8.477	6.725	5.212	3.966
10 m	Far	16.574	22.612	47.913	∞	∞	∞
	Near	7.199	6.482	5.677	4.85	4.027	3.254
5 m	Far	6.176	6.829	8.063	10.82	21.575	∞
	Near	4.213	3.966	3.661	3.311	2.919	2.505
4 m	Far	4.702	5.063	5.696	6.914	10.049	30.314
	Near	3.489	3.321	3.108	2.857	2.566	2.246
3 m	Far	3.364	3.538	3.825	4.318	5.318	8.074
	Near	2.712	2.613	2.484	2.326	2.135	1.915
2 m	Far	2.144	2.208	2.309	2.467	2.741	3.277
	Near	1.876	1.832	1.771	1.695	1.598	1.479

F = 56 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		8.376	6.08	4.358	3.256	2.273	1.676
1,5 m	Far	1.574	1.605	1.654	1.728	1.848	2.058
	Near	1.434	1.41	1.376	1.333	1.276	1.204
1,2 m	Far	1.243	1.261	1.289	1.33	1.394	1.501
	Near	1.161	1.146	1.125	1.098	1.062	1.015
1 m	Far	1.027	1.039	1.056	1.081	1.12	1.182
	Near	0.974	0.965	0.951	0.933	0.909	0.877
0,8 m	Far	0.815	0.822	0.831	0.845	0.865	0.897
	Near	0.786	0.78	0.772	0.762	0.747	0.728
0,63 m	Far	0.638	0.641	0.646	0.652	0.662	0.678
	Near	0.622	0.62	0.615	0.61	0.602	0.592

F = 56 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		11.06	8.012	5.726	4.262	2.957	2.164
25 m	Far	71.596	288.232	∞	∞	∞	∞
	Near	15.225	13.185	11.067	9.061	7.214	5.605
10 m	Far	13.408	15.545	20.207	34.897	∞	∞
	Near	7.995	7.407	6.703	5.927	5.094	4.252
5 m	Far	5.695	6.033	6.601	7.605	9.757	16.639
	Near	4.462	4.28	4.044	3.759	3.418	3.031
4 m	Far	4.423	4.62	4.939	5.468	6.473	8.852
	Near	3.655	3.534	3.375	3.178	2.935	2.65
3 m	Far	3.223	3.323	3.479	3.724	4.148	4.975
	Near	2.808	2.738	2.645	2.526	2.375	2.191
2 m	Far	2.09	2.128	2.187	2.274	2.415	2.653
	Near	1.918	1.888	1.846	1.791	1.719	1.627

F = 70 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		11.06	8.012	5.726	4.262	2.957	2.164
1,5 m	Far	1.546	1.566	1.595	1.638	1.704	1.81
	Near	1.457	1.44	1.418	1.387	1.347	1.293
1,2 m	Far	1.227	1.239	1.255	1.28	1.316	1.374
	Near	1.174	1.164	1.15	1.132	1.107	1.073
1 m	Far	1.017	1.025	1.035	1.05	1.073	1.108
	Near	0.983	0.977	0.968	0.956	0.939	0.916
0,8 m	Far	0.81	0.814	0.82	0.828	0.84	0.859
	Near	0.791	0.787	0.782	0.775	0.765	0.752
0,63 m	Far	0.635	0.637	0.64	0.644	0.65	0.659
	Near	0.625	0.623	0.621	0.617	0.612	0.605

F = 70 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		17.177	12.415	8.844	6.557	4.518	3.279
25 m	Far	41.151	55.613	112.899	∞	∞	∞
	Near	18.001	16.199	14.17	12.08	9.99	8.024
10 m	Far	11.811	12.739	14.37	17.506	25.564	77.247
	Near	8.681	8.249	7.701	7.053	6.301	5.475
5 m	Far	5.397	5.576	5.855	6.296	7.065	8.59
	Near	4.66	4.537	4.373	4.164	3.9	3.579
4 m	Far	4.245	4.352	4.517	4.77	5.189	5.948
	Near	3.784	3.704	3.596	3.456	3.276	3.05
3 m	Far	3.131	3.187	3.271	3.397	3.597	3.933
	Near	2.881	2.836	2.774	2.693	2.586	2.448
2 m	Far	2.053	2.076	2.109	2.156	2.23	2.345
	Near	1.95	1.931	1.904	1.868	1.819	1.754

F = 90 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		17.177	12.415	8.844	6.557	4.518	3.279
1,5 m	Far	1.528	1.539	1.556	1.58	1.616	1.671
	Near	1.474	1.463	1.449	1.429	1.403	1.367
1,2 m	Far	1.216	1.223	1.233	1.247	1.267	1.299
	Near	1.184	1.178	1.169	1.158	1.141	1.119
1 m	Far	1.01	1.015	1.021	1.03	1.043	1.062
	Near	0.99	0.986	0.98	0.973	0.962	0.947
0,8 m	Far	0.806	0.808	0.812	0.817	0.824	0.834
	Near	0.794	0.792	0.789	0.784	0.778	0.77
0,63 m	Far	0.633	0.634	0.636	0.638	0.642	0.647
	Near	0.627	0.626	0.624	0.622	0.619	0.614

F = 90 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		31.853	22.98	16.325	12.063	8.265	5.957
25 m	Far	33.876	39.537	52.058	93.399	∞	∞
	Near	19.84	18.329	16.531	14.555	12.442	10.316
10 m	Far	11.14	11.677	12.547	14.006	16.826	23.756
	Near	9.078	8.755	8.333	7.811	7.172	6.426
5 m	Far	5.258	5.37	5.54	5.796	6.21	6.926
	Near	4.767	4.68	4.562	4.407	4.204	3.946
4 m	Far	4.16	4.229	4.331	4.483	4.721	5.114
	Near	3.853	3.797	3.72	3.618	3.483	3.307
3 m	Far	3.086	3.122	3.176	3.254	3.373	3.562
	Near	2.919	2.888	2.845	2.787	2.709	2.605
2 m	Far	2.035	2.05	2.071	2.102	2.147	2.217
	Near	1.966	1.953	1.934	1.909	1.875	1.828

F = 110 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		31.853	22.98	16.325	12.063	8.265	5.957
1,5 m	Far	1.518	1.526	1.537	1.552	1.575	1.61
	Near	1.482	1.475	1.465	1.452	1.433	1.408
1,2 m	Far	1.211	1.215	1.222	1.231	1.244	1.264
	Near	1.189	1.185	1.179	1.171	1.16	1.144
1 m	Far	1.007	1.01	1.014	1.02	1.028	1.04
	Near	0.993	0.991	0.987	0.981	0.974	0.964
0,8 m	Far	0.804	0.805	0.808	0.811	0.816	0.822
	Near	0.796	0.795	0.792	0.79	0.785	0.779
0,63 m	Far	0.632	0.633	0.634	0.636	0.638	0.641
	Near	0.628	0.627	0.626	0.625	0.622	0.619

F = 110 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		42.566	30.695	21.79	16.086	11.004	7.915
25 m	Far	30.763	33.917	39.782	52.448	96.821	∞
	Near	21.076	19.831	18.287	16.508	14.501	12.363
10 m	Far	10.79	11.144	11.698	12.569	14.079	17.041
	Near	9.322	9.076	8.746	8.327	7.795	7.147
5 m	Far	5.182	5.259	5.375	5.544	5.808	6.238
	Near	4.831	4.767	4.678	4.56	4.402	4.195
4 m	Far	4.113	4.161	4.231	4.333	4.49	4.737
	Near	3.893	3.852	3.795	3.719	3.615	3.477
3 m	Far	3.061	3.086	3.124	3.177	3.257	3.381
	Near	2.942	2.919	2.887	2.844	2.785	2.705
2 m	Far	2.025	2.035	2.05	2.072	2.103	2.15
	Near	1.976	1.966	1.953	1.934	1.909	1.873

F = 130 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		42.566	30.695	21.79	16.086	11.004	7.915
1,5 m	Far	1.513	1.518	1.526	1.537	1.553	1.577
	Near	1.487	1.482	1.475	1.465	1.452	1.432
1,2 m	Far	1.208	1.211	1.215	1.222	1.231	1.245
	Near	1.192	1.189	1.185	1.179	1.171	1.16
1 m	Far	1.005	1.007	1.01	1.014	1.02	1.029
	Near	0.995	0.993	0.99	0.987	0.981	0.974
0,8 m	Far	0.803	0.804	0.806	0.808	0.811	0.816
	Near	0.797	0.796	0.795	0.792	0.789	0.785
0,63 m	Far	0.631	0.632	0.633	0.634	0.636	0.638
	Near	0.629	0.628	0.627	0.626	0.625	0.622

F = 130 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		55.438	39.962	28.352	20.917	14.293	10.268
25 m	Far	29.348	31.175	34.714	41.253	56.587	122.283
	Near	21.79	20.893	19.58	18.01	16.166	14.11
10 m	Far	10.614	10.839	11.227	11.819	12.788	14.508
	Near	9.456	9.287	9.024	8.684	8.241	7.683
5 m	Far	5.143	5.193	5.277	5.399	5.585	5.877
	Near	4.866	4.822	4.753	4.661	4.535	4.367
4 m	Far	4.089	4.12	4.172	4.246	4.358	4.53
	Near	3.915	3.888	3.844	3.784	3.702	3.592
3 m	Far	3.048	3.065	3.092	3.131	3.19	3.278
	Near	2.954	2.938	2.914	2.881	2.835	2.772
2 m	Far	2.02	2.027	2.038	2.053	2.077	2.111
	Near	1.981	1.974	1.964	1.95	1.93	1.903

F = 152 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		55.438	39.962	28.352	20.917	14.293	10.268
1,5 m	Far	1.51	1.514	1.52	1.528	1.54	1.557
	Near	1.49	1.487	1.481	1.474	1.463	1.448
1,2 m	Far	1.206	1.208	1.212	1.216	1.223	1.233
	Near	1.194	1.192	1.189	1.184	1.178	1.169
1 m	Far	1.004	1.005	1.007	1.01	1.015	1.021
	Near	0.996	0.995	0.993	0.99	0.986	0.98
0,8 m	Far	0.802	0.803	0.804	0.806	0.808	0.812
	Near	0.798	0.797	0.796	0.794	0.792	0.789
0,63 m	Far	0.631	0.632	0.632	0.633	0.634	0.636
	Near	0.629	0.629	0.628	0.627	0.626	0.624

F = 152 mm