

OPTIMO 28 - 76

DEPTH-OF-FIELD TABLES
DISTANCE IN METERS

angénieux®



DEPTH-OF-FIELD TABLES

ZOOM 35 mm → F = 28 - 76 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

ZOOM 35 mm → F = 28 - 76 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 2.6	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		12.048	8.376	6.08	4.358	3.256	2.273	1.676
25 m	Far	∞	∞	∞	∞	∞	∞	∞
	Near	8.295	6.414	5.007	3.804	2.955	2.138	1.611
10 m	Far	53.386	∞	∞	∞	∞	∞	∞
	Near	5.589	4.683	3.899	3.141	2.548	1.926	1.494
5 m	Far	8.226	11.673	25.108	∞	∞	∞	∞
	Near	3.621	3.23	2.848	2.434	2.072	1.652	1.333
4 m	Far	5.781	7.261	10.787	39.807	∞	∞	∞
	Near	3.078	2.796	2.51	2.187	1.895	1.543	1.264
3 m	Far	3.867	4.456	5.531	8.675	30.738	∞	∞
	Near	2.463	2.284	2.095	1.871	1.659	1.389	1.164
2 m	Far	2.327	2.515	2.803	3.387	4.593	13.531	∞
	Near	1.76	1.671	1.573	1.451	1.327	1.157	1.004

F = 28 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		12.048	8.376	6.08	4.358	3.256	2.273	1.676
1,5 m	Far	1.664	1.752	1.878	2.106	2.485	3.731	11.143
	Near	1.368	1.318	1.26	1.184	1.105	0.991	0.883
1,2 m	Far	1.296	1.345	1.413	1.529	1.705	2.168	3.386
	Near	1.119	1.087	1.05	1	0.946	0.866	0.787
1 m	Far	1.061	1.091	1.133	1.201	1.299	1.53	2.002
	Near	0.947	0.925	0.9	0.865	0.827	0.769	0.709
0,8 m	Far	0.834	0.851	0.873	0.909	0.958	1.064	1.245
	Near	0.769	0.756	0.741	0.72	0.696	0.658	0.618
0,61 m	Far	0.626	0.634	0.644	0.66	0.681	0.723	0.787
	Near	0.595	0.588	0.58	0.569	0.557	0.536	0.513

F = 28 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		15.934	11.06	8.012	5.726	4.262	2.957	2.164
25 m	Far	∞	∞	∞	∞	∞	∞	∞
	Near	9.813	7.741	6.13	4.711	3.683	2.676	2.016
10 m	Far	26.324	102.589	∞	∞	∞	∞	∞
	Near	6.225	5.337	4.533	3.721	3.06	2.342	1.828
5 m	Far	7.135	8.857	12.783	37.851	∞	∞	∞
	Near	3.868	3.517	3.16	2.755	2.386	1.938	1.582
4 m	Far	5.23	6.081	7.668	12.572	63.69	∞	∞
	Near	3.252	3.004	2.744	2.438	2.149	1.784	1.482
3 m	Far	3.619	3.994	4.601	5.952	9.421	∞	∞
	Near	2.57	2.417	2.25	2.046	1.844	1.575	1.341
2 m	Far	2.24	2.369	2.557	2.901	3.488	5.55	24.536
	Near	1.81	1.737	1.654	1.547	1.435	1.276	1.125

F = 32 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		15.934	11.06	8.012	5.726	4.262	2.957	2.164
1,5 m	Far	1.622	1.685	1.771	1.919	2.142	2.723	4.218
	Near	1.397	1.356	1.308	1.244	1.175	1.071	0.969
1,22 m	Far	1.272	1.307	1.355	1.434	1.547	1.806	2.313
	Near	1.137	1.111	1.081	1.04	0.994	0.923	0.85
1 m	Far	1.046	1.068	1.098	1.145	1.211	1.352	1.596
	Near	0.959	0.942	0.921	0.893	0.861	0.811	0.757
0,8 m	Far	0.826	0.838	0.855	0.88	0.914	0.983	1.091
	Near	0.776	0.766	0.754	0.736	0.717	0.685	0.65
0,61 m	Far	0.622	0.628	0.636	0.647	0.662	0.692	0.734
	Near	0.598	0.593	0.587	0.578	0.568	0.551	0.532

F = 32 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		24.789	17.177	12.415	8.844	6.557	4.518	3.279
25 m	Far	∞	∞	∞	∞	∞	∞	∞
	Near	12.533	10.264	8.372	6.599	5.251	3.871	2.934
10 m	Far	16.538	23.485	50.223	∞	∞	∞	∞
	Near	7.196	6.4	5.624	4.779	4.042	3.186	2.533
5 m	Far	6.179	6.917	8.15	11.086	20.11	∞	∞
	Near	4.208	3.932	3.635	3.273	2.921	2.459	2.062
4 m	Far	4.705	5.113	5.744	7.034	9.763	33.043	∞
	Near	3.485	3.297	3.088	2.828	2.565	2.207	1.887
3 m	Far	3.367	3.565	3.851	4.372	5.257	8.315	33.116
	Near	2.709	2.597	2.469	2.305	2.132	1.885	1.653
2 m	Far	2.147	2.22	2.321	2.489	2.735	3.334	4.64
	Near	1.874	1.823	1.763	1.682	1.593	1.459	1.323

F = 40 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		24.789	17.177	12.415	8.844	6.557	4.518	3.279
1,5 m	Far	1.576	1.613	1.662	1.74	1.85	2.087	2.498
	Near	1.432	1.404	1.37	1.324	1.271	1.189	1.103
1,2 m	Far	1.245	1.266	1.294	1.338	1.398	1.519	1.711
	Near	1.159	1.141	1.12	1.091	1.058	1.004	0.945
1 m	Far	1.029	1.042	1.06	1.087	1.123	1.195	1.302
	Near	0.973	0.962	0.948	0.928	0.905	0.868	0.826
0,8 m	Far	0.816	0.824	0.834	0.849	0.868	0.906	0.959
	Near	0.784	0.778	0.769	0.758	0.744	0.721	0.695
0,61 m	Far	0.618	0.621	0.626	0.633	0.642	0.659	0.682
	Near	0.602	0.599	0.595	0.589	0.582	0.57	0.556

F = 40 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		46.022	31.853	22.98	16.325	12.063	8.265	5.957
25 m	Far	53.427	109.38	∞	∞	∞	∞	∞
	Near	16.361	14.181	12.15	10.045	8.292	6.343	4.919
10 m	Far	12.633	14.331	17.262	24.751	53.461	∞	∞
	Near	8.286	7.699	7.071	6.316	5.588	4.646	3.847
5 m	Far	5.559	5.854	6.274	7.019	8.228	11.92	27.722
	Near	4.546	4.37	4.167	3.901	3.62	3.212	2.821
4 m	Far	4.343	4.518	4.759	5.168	5.782	7.354	11.233
	Near	3.709	3.593	3.457	3.275	3.078	2.783	2.489
3 m	Far	3.183	3.273	3.394	3.59	3.867	4.49	5.643
	Near	2.838	2.771	2.692	2.584	2.463	2.276	2.08
2 m	Far	2.075	2.11	2.157	2.23	2.327	2.525	2.83
	Near	1.931	1.902	1.866	1.817	1.76	1.667	1.566

F = 55 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		46.022	31.853	22.98	16.325	12.063	8.265	5.957
1,5 m	Far	1.539	1.557	1.581	1.617	1.664	1.757	1.889
	Near	1.463	1.447	1.428	1.401	1.368	1.315	1.255
1,2 m	Far	1.223	1.234	1.248	1.269	1.296	1.347	1.419
	Near	1.178	1.168	1.156	1.139	1.119	1.086	1.047
1 m	Far	1.015	1.022	1.031	1.044	1.061	1.093	1.136
	Near	0.986	0.979	0.971	0.96	0.947	0.924	0.898
0,8 m	Far	0.809	0.812	0.817	0.825	0.834	0.852	0.875
	Near	0.792	0.788	0.783	0.777	0.769	0.756	0.74
0,61 m	Far	0.614	0.616	0.618	0.622	0.626	0.635	0.645
	Near	0.606	0.604	0.602	0.599	0.595	0.588	0.58

F = 55 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		61.488	42.566	30.695	21.79	16.086	11.004	7.915
25 m	Far	40.373	55.74	107.437	∞	∞	∞	∞
	Near	18.134	16.16	14.216	12.084	10.212	8.019	6.336
10 m	Far	11.753	12.756	14.297	17.405	23.796	69.68	∞
	Near	8.708	8.235	7.709	7.048	6.38	5.465	4.642
5 m	Far	5.388	5.582	5.848	6.292	6.942	8.522	11.966
	Near	4.666	4.531	4.373	4.159	3.925	3.57	3.211
4 m	Far	4.24	4.357	4.515	4.77	5.127	5.924	7.372
	Near	3.787	3.699	3.595	3.452	3.292	3.042	2.782
3 m	Far	3.129	3.19	3.271	3.399	3.571	3.928	4.496
	Near	2.882	2.832	2.773	2.689	2.594	2.441	2.275
2 m	Far	2.053	2.078	2.11	2.159	2.223	2.347	2.526
	Near	1.95	1.929	1.902	1.865	1.821	1.749	1.667

F = 65 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		61.488	42.566	30.695	21.79	16.086	11.004	7.915
1,5 m	Far	1.528	1.54	1.557	1.582	1.614	1.674	1.757
	Near	1.473	1.462	1.448	1.427	1.403	1.362	1.315
1,2 m	Far	1.217	1.224	1.234	1.248	1.267	1.301	1.348
	Near	1.184	1.177	1.168	1.156	1.141	1.116	1.086
1 m	Far	1.011	1.016	1.022	1.031	1.043	1.064	1.093
	Near	0.99	0.985	0.979	0.971	0.961	0.944	0.924
0,8 m	Far	0.806	0.809	0.812	0.818	0.824	0.836	0.852
	Near	0.794	0.791	0.788	0.783	0.778	0.768	0.755
0,61 m	Far	0.613	0.614	0.616	0.618	0.622	0.627	0.635
	Near	0.607	0.606	0.604	0.602	0.599	0.594	0.588

F = 65 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		78.049	55.438	39.962	28.352	20.917	14.293	10.268
25 m	Far	35.377	42.646	58.897	134.661	∞	∞	∞
	Near	19.35	17.717	15.92	13.857	11.961	9.631	7.758
10 m	Far	11.298	11.934	12.911	14.684	17.682	27.866	102.02
	Near	8.974	8.613	8.174	7.605	7.007	6.153	5.345
5 m	Far	5.294	5.424	5.61	5.91	6.326	7.24	8.853
	Near	4.738	4.639	4.513	4.34	4.145	3.841	3.52
4 m	Far	4.182	4.262	4.374	4.55	4.789	5.285	6.079
	Near	3.834	3.77	3.687	3.573	3.442	3.233	3.007
3 m	Far	3.098	3.14	3.199	3.29	3.409	3.645	3.994
	Near	2.908	2.872	2.826	2.76	2.684	2.558	2.418
2 m	Far	2.041	2.058	2.081	2.117	2.162	2.249	2.369
	Near	1.961	1.946	1.926	1.897	1.862	1.805	1.738

F = 76 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.6	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		78.049	55.438	39.962	28.352	20.917	14.293	10.268
1,5 m	Far	1.521	1.53	1.542	1.561	1.584	1.627	1.685
	Near	1.479	1.471	1.46	1.445	1.426	1.394	1.356
1,2 m	Far	1.213	1.218	1.225	1.236	1.249	1.274	1.307
	Near	1.188	1.183	1.176	1.167	1.155	1.135	1.112
1 m	Far	1.008	1.012	1.016	1.023	1.032	1.047	1.068
	Near	0.992	0.989	0.984	0.978	0.971	0.958	0.942
0,8 m	Far	0.805	0.807	0.809	0.813	0.818	0.827	0.838
	Near	0.795	0.793	0.791	0.787	0.783	0.775	0.766
0,61 m	Far	0.612	0.613	0.614	0.616	0.619	0.623	0.628
	Near	0.608	0.607	0.606	0.604	0.602	0.598	0.593

F = 76 mm