

OPTIMO 30 - 76

DEPTH-OF-FIELD TABLES
DISTANCES IN METERS

Angénieux®






DEPTH-OF-FIELD TABLES

F = 30 - 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

F 30 - 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 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		13.33	9.725	7.051	5.045	3.761	2.617	1.921
10 meters	Far	39.157	∞	∞	∞	∞	∞	∞
	Near	5.798	5.016	4.218	3.43	2.801	2.13	1.657
5 meters	Far	7.804	9.952	16.464	826.521	∞	∞	∞
	Near	3.704	3.379	3.009	2.597	2.231	1.795	1.456
3 meters	Far	3.776	4.192	4.983	6.943	13.748	∞	∞
	Near	2.5	2.354	2.176	1.962	1.754	1.483	1.253
2.5 meters	Far	3.001	3.252	3.695	4.643	6.856	56.797	∞
	Near	2.15	2.044	1.911	1.747	1.584	1.365	1.171
2 meters	Far	2.295	2.433	2.664	3.103	3.915	7.569	∞
	Near	1.777	1.706	1.616	1.501	1.383	1.218	1.066
1.5 meters	Far	1.649	1.715	1.819	2	2.285	3.102	5.858
	Near	1.378	1.338	1.285	1.216	1.141	1.033	0.927

F = 30 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		13.33	9.725	7.051	5.045	3.761	2.617	1.921
1.2 meters	Far	1.287	1.324	1.381	1.476	1.615	1.954	2.698
	Near	1.126	1.1	1.066	1.021	0.971	0.896	0.82
1 meters	Far	1.056	1.079	1.113	1.17	1.249	1.428	1.756
	Near	0.951	0.934	0.911	0.88	0.845	0.791	0.734
0.8 meters	Far	0.831	0.844	0.863	0.893	0.933	1.018	1.155
	Near	0.771	0.761	0.748	0.729	0.707	0.672	0.635
0.61 meters	Far	0.625	0.63	0.639	0.653	0.67	0.705	0.756
	Near	0.596	0.591	0.584	0.574	0.562	0.544	0.523

F = 30 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		16.089	11.728	8.493	6.067	4.512	3.128	2.286
10 meters	Far	25.905	66.425	∞	∞	∞	∞	∞
	Near	6.248	5.483	4.678	3.857	3.183	2.444	1.912
5 meters	Far	7.105	8.473	11.705	27.191	∞	∞	∞
	Near	3.876	3.577	3.227	2.826	2.458	2.005	1.642
3 meters	Far	3.612	3.918	4.46	5.622	8.344	74.492	∞
	Near	2.573	2.444	2.283	2.083	1.884	1.617	1.382
2.5 meters	Far	2.899	3.088	3.407	4.026	5.214	11.356	∞
	Near	2.203	2.11	1.991	1.841	1.687	1.474	1.28
2 meters	Far	2.237	2.344	2.516	2.825	3.338	5.004	14.36
	Near	1.812	1.75	1.671	1.567	1.458	1.302	1.152
1.5 meters	Far	1.621	1.673	1.753	1.887	2.088	2.593	3.788
	Near	1.398	1.363	1.317	1.256	1.189	1.088	0.988

F = 33 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		16.089	11.728	8.493	6.067	4.512	3.128	2.286
1.2 meters	Far	1.271	1.3	1.345	1.418	1.52	1.752	2.186
	Near	1.138	1.116	1.087	1.047	1.003	0.935	0.864
1 meters	Far	1.045	1.064	1.092	1.135	1.196	1.324	1.538
	Near	0.959	0.945	0.925	0.898	0.868	0.819	0.767
0.8 meters	Far	0.826	0.836	0.851	0.875	0.906	0.97	1.067
	Near	0.776	0.768	0.756	0.74	0.721	0.69	0.657
0.61 meters	Far	0.622	0.627	0.634	0.644	0.658	0.685	0.724
	Near	0.598	0.594	0.588	0.58	0.57	0.554	0.535

F = 33 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		20.177	14.696	10.629	7.579	5.626	3.885	2.827
10 meters	Far	19.505	30.634	167.224	∞	∞	∞	∞
	Near	6.762	6.033	5.238	4.396	3.679	2.867	2.262
5 meters	Far	6.537	7.408	9.152	14.089	43.148	∞	∞
	Near	4.061	3.795	3.475	3.095	2.733	2.271	1.885
3 meters	Far	3.466	3.685	4.05	4.752	6.063	12.187	∞
	Near	2.65	2.539	2.398	2.219	2.034	1.777	1.541
2.5 meters	Far	2.807	2.945	3.168	3.57	4.242	6.454	19.845
	Near	2.257	2.178	2.076	1.943	1.804	1.603	1.412
2 meters	Far	2.184	2.263	2.388	2.6	2.925	3.786	6.112
	Near	1.847	1.796	1.728	1.638	1.541	1.397	1.255
1.5 meters	Far	1.594	1.634	1.693	1.791	1.929	2.243	2.843
	Near	1.417	1.389	1.35	1.298	1.24	1.15	1.057



F = 37 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		20.177	14.696	10.629	7.579	5.626	3.885	2.827
1.2 meters	Far	1.256	1.278	1.312	1.366	1.439	1.595	1.854
	Near	1.15	1.132	1.108	1.075	1.037	0.977	0.913
1 meters	Far	1.036	1.05	1.071	1.104	1.148	1.238	1.377
	Near	0.967	0.955	0.939	0.917	0.891	0.849	0.803
0.8 meters	Far	0.82	0.828	0.84	0.858	0.882	0.928	0.995
	Near	0.781	0.774	0.765	0.751	0.735	0.709	0.68
0.61 meters	Far	0.619	0.623	0.629	0.637	0.648	0.668	0.696
	Near	0.6	0.597	0.592	0.585	0.577	0.564	0.548

F = 37 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		41.213	29.97	21.624	15.365	11.355	7.783	5.612
10 meters	Far	13.096	14.841	18.321	28.056	82.058	∞	∞
	Near	8.101	7.562	6.912	6.139	5.403	4.461	3.674
5 meters	Far	5.644	5.934	6.404	7.252	8.677	13.42	44.021
	Near	4.492	4.327	4.113	3.836	3.544	3.126	2.73
3 meters	Far	3.209	3.297	3.43	3.648	3.959	4.677	6.079
	Near	2.818	2.755	2.671	2.556	2.429	2.234	2.033
2.5 meters	Far	2.64	2.697	2.784	2.922	3.113	3.529	4.25
	Near	2.375	2.331	2.272	2.191	2.099	1.955	1.802
2 meters	Far	2.085	2.12	2.17	2.25	2.358	2.579	2.929
	Near	1.922	1.894	1.856	1.804	1.743	1.646	1.54
1.5 meters	Far	1.544	1.562	1.588	1.627	1.679	1.781	1.93
	Near	1.458	1.443	1.423	1.393	1.359	1.303	1.24

F = 53 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		41.213	29.97	21.624	15.365	11.355	7.783	5.612
1.2 meters	Far	1.226	1.237	1.252	1.275	1.304	1.361	1.44
	Near	1.175	1.166	1.153	1.135	1.114	1.078	1.037
1 meters	Far	1.017	1.024	1.033	1.048	1.066	1.101	1.149
	Near	0.984	0.978	0.969	0.957	0.943	0.919	0.891
0.8 meters	Far	0.81	0.813	0.819	0.827	0.837	0.856	0.882
	Near	0.791	0.787	0.782	0.775	0.767	0.752	0.735
0.61 meters	Far	0.614	0.616	0.619	0.622	0.627	0.636	0.648
	Near	0.605	0.603	0.601	0.597	0.593	0.586	0.577

F = 53 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		69.759	50.702	36.544	25.93	19.132	13.077	9.397
10 meters	Far	11.617	12.375	13.644	16.076	20.615	41.728	∞
	Near	8.784	8.4	7.909	7.286	6.645	5.751	4.93
5 meters	Far	5.36	5.51	5.74	6.116	6.653	7.898	10.342
	Near	4.687	4.579	4.434	4.238	4.02	3.685	3.341
3 meters	Far	3.12	3.168	3.239	3.349	3.497	3.796	4.257
	Near	2.89	2.85	2.796	2.72	2.633	2.492	2.336
2.5 meters	Far	2.581	2.613	2.659	2.732	2.826	3.014	3.29
	Near	2.425	2.397	2.36	2.307	2.245	2.144	2.031
2 meters	Far	2.049	2.069	2.097	2.14	2.195	2.303	2.454
	Near	1.953	1.936	1.913	1.879	1.839	1.773	1.698
1.5 meters	Far	1.526	1.536	1.55	1.572	1.6	1.653	1.724
	Near	1.475	1.466	1.453	1.435	1.413	1.376	1.333

F = 69 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		69.759	50.702	36.544	25.93	19.132	13.077	9.397
1.2 meters	Far	1.215	1.221	1.23	1.243	1.259	1.289	1.329
	Near	1.185	1.18	1.172	1.161	1.147	1.124	1.097
1 meters	Far	1.01	1.014	1.019	1.027	1.038	1.057	1.082
	Near	0.99	0.987	0.982	0.974	0.965	0.95	0.932
0.8 meters	Far	0.806	0.808	0.811	0.816	0.821	0.832	0.846
	Near	0.794	0.792	0.789	0.785	0.78	0.771	0.76
0.61 meters	Far	0.612	0.613	0.615	0.617	0.62	0.625	0.631
	Near	0.607	0.606	0.604	0.602	0.6	0.595	0.59

F = 69 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		84.601	61.487	44.307	31.427	23.18	15.833	11.368
10 meters	Far	11.296	11.878	12.82	14.518	17.356	26.698	83.204
	Near	8.975	8.642	8.21	7.649	7.058	6.21	5.406
5 meters	Far	5.293	5.413	5.594	5.884	6.286	7.161	8.689
	Near	4.739	4.648	4.524	4.354	4.163	3.862	3.545
3 meters	Far	3.098	3.137	3.194	3.282	3.397	3.626	3.961
	Near	2.908	2.875	2.83	2.765	2.69	2.567	2.43
2.5 meters	Far	2.566	2.592	2.63	2.688	2.763	2.908	3.114
	Near	2.438	2.415	2.383	2.339	2.286	2.199	2.099
2 meters	Far	2.04	2.056	2.079	2.114	2.158	2.242	2.358
	Near	1.961	1.947	1.927	1.899	1.865	1.809	1.743
1.5 meters	Far	1.521	1.529	1.541	1.559	1.581	1.623	1.68
	Near	1.479	1.472	1.461	1.446	1.428	1.396	1.359

F = 76 mm

Distance in meters | Confusion circle : 0.025 mm

APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		84.601	61.487	44.307	31.427	23.18	15.833	11.368
1.2 meters	Far	1.213	1.218	1.225	1.235	1.248	1.272	1.304
	Near	1.188	1.183	1.177	1.167	1.156	1.137	1.114
1 meters	Far	1.008	1.011	1.016	1.023	1.031	1.046	1.066
	Near	0.992	0.989	0.985	0.979	0.971	0.958	0.943
0.8 meters	Far	0.805	0.806	0.809	0.813	0.818	0.826	0.837
	Near	0.795	0.794	0.791	0.788	0.783	0.776	0.767
0.61 meters	Far	0.612	0.613	0.614	0.616	0.618	0.622	0.627
	Near	0.607	0.607	0.605	0.604	0.602	0.598	0.593

F = 76 mm