

OPTIMO 16 - 40

DEPTH-OF-FIELD TABLES  
DISTANCES IN METERS

Angénieux®



## **DEPTH-OF-FIELD TABLES**

**F = 16 - 40 mm**

The depth of field tables are provided for informational purposes only and are estimated with a circle of confusion of 0.025 mm (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 = 16 - 40 mm**

*Les tables de profondeur de champs sont fournies à titre indicatif pour un cercle de confusion moyen de 0,025 mm (1/1000 inch). 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		4.043	2.917	2.156	1.584	1.218	0.892	0.693
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	2.959	2.326	1.83	1.412	1.122	0.846	0.669
5 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	2.332	1.933	1.588	1.273	1.039	0.804	0.647
3 meters	Far	10.539	∞	∞	∞	∞	∞	∞
	Near	1.818	1.577	1.35	1.125	0.945	0.753	0.618
2.5 meters	Far	5.94	15.22	∞	∞	∞	∞	∞
	Near	1.637	1.444	1.255	1.063	0.904	0.73	0.605
2 meters	Far	3.593	5.547	22.861	∞	∞	∞	∞
	Near	1.424	1.281	1.136	0.981	0.849	0.698	0.586
1.5 meters	Far	2.168	2.699	4.091	21.619	∞	∞	∞
	Near	1.17	1.078	0.979	0.869	0.769	0.65	0.556

F = 16 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		4.043	2.917	2.156	1.584	1.218	0.892	0.693
1.2 meters	Far	1.554	1.786	2.253	3.819	56.494	∞	∞
	Near	0.992	0.93	0.86	0.779	0.703	0.607	0.529
1 meters	Far	1.212	1.337	1.558	2.104	3.957	∞	∞
	Near	0.861	0.817	0.766	0.705	0.646	0.569	0.504
0.8 meters	Far	0.912	0.972	1.068	1.264	1.67	4.757	∞
	Near	0.718	0.69	0.658	0.617	0.576	0.52	0.469
0.61 meters	Far	0.659	0.683	0.72	0.784	0.889	1.212	2.631
	Near	0.57	0.555	0.538	0.515	0.491	0.456	0.422

F = 16 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		5.064	3.64	2.677	1.953	1.49	1.076	0.825
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	3.449	2.745	2.176	1.686	1.339	1.004	0.787
5 meters	Far	366.486	∞	∞	∞	∞	∞	∞
	Near	2.614	2.202	1.832	1.483	1.215	0.94	0.752
3 meters	Far	6.809	15.288	∞	∞	∞	∞	∞
	Near	1.975	1.742	1.512	1.276	1.081	0.866	0.71
2.5 meters	Far	4.57	7.156	32.589	∞	∞	∞	∞
	Near	1.76	1.577	1.391	1.193	1.025	0.833	0.69
2 meters	Far	3.062	3.984	6.81	∞	∞	∞	∞
	Near	1.512	1.38	1.241	1.086	0.95	0.788	0.663
1.5 meters	Far	1.977	2.294	2.945	5.25	∞	∞	∞
	Near	1.225	1.142	1.051	0.945	0.846	0.722	0.621

F = 18 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		5.064	3.64	2.677	1.953	1.49	1.076	0.825
1.2 meters	Far	1.461	1.613	1.882	2.537	4.678	∞	∞
	Near	1.028	0.974	0.911	0.835	0.762	0.665	0.583
1 meters	Far	1.159	1.245	1.385	1.677	2.318	9.44	∞
	Near	0.886	0.848	0.803	0.748	0.692	0.617	0.549
0.8 meters	Far	0.885	0.928	0.994	1.116	1.328	2.116	15.116
	Near	0.733	0.71	0.682	0.646	0.608	0.555	0.505
0.61 meters	Far	0.648	0.666	0.692	0.736	0.803	0.974	1.397
	Near	0.577	0.565	0.551	0.531	0.51	0.478	0.446

F = 18 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		6.205	4.448	3.258	2.365	1.793	1.283	0.973
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	3.922	3.162	2.53	1.972	1.569	1.174	0.916
5 meters	Far	24.153	∞	∞	∞	∞	∞	∞
	Near	2.866	2.452	2.066	1.691	1.395	1.082	0.865
3 meters	Far	5.453	8.432	33.462	∞	∞	∞	∞
	Near	2.108	1.886	1.66	1.419	1.214	0.979	0.804
2.5 meters	Far	3.933	5.225	9.501	∞	∞	∞	∞
	Near	1.862	1.69	1.511	1.313	1.139	0.935	0.777
2 meters	Far	2.774	3.329	4.586	10.91	∞	∞	∞
	Near	1.584	1.463	1.331	1.181	1.043	0.874	0.739
1.5 meters	Far	1.861	2.077	2.467	3.464	7.303	∞	∞
	Near	1.268	1.194	1.111	1.011	0.914	0.789	0.683

F = 20 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		6.205	4.448	3.258	2.365	1.793	1.283	0.973
1.2 meters	Far	1.401	1.51	1.689	2.064	2.899	13.366	∞
	Near	1.056	1.008	0.952	0.883	0.813	0.718	0.634
1 meters	Far	1.124	1.187	1.286	1.473	1.814	3.282	∞
	Near	0.905	0.872	0.833	0.783	0.731	0.658	0.591
0.8 meters	Far	0.867	0.9	0.948	1.033	1.167	1.554	2.905
	Near	0.745	0.725	0.701	0.669	0.635	0.585	0.536
0.61 meters	Far	0.64	0.654	0.674	0.707	0.753	0.862	1.078
	Near	0.583	0.573	0.561	0.544	0.525	0.496	0.466

F = 20 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		11.973	8.53	6.199	4.449	3.327	2.327	1.719
10 meters	Far	58.77	∞	∞	∞	∞	∞	∞
	Near	5.546	4.701	3.919	3.162	2.569	1.946	1.514
5 meters	Far	8.311	11.543	24.29	∞	∞	∞	∞
	Near	3.608	3.243	2.865	2.452	2.092	1.672	1.352
3 meters	Far	3.876	4.422	5.459	8.436	27.235	∞	∞
	Near	2.461	2.294	2.107	1.886	1.675	1.407	1.183
2.5 meters	Far	3.06	3.381	3.936	5.227	8.938	∞	∞
	Near	2.123	2.001	1.861	1.69	1.523	1.303	1.113
2 meters	Far	2.326	2.498	2.775	3.33	4.456	12.025	∞
	Near	1.76	1.679	1.583	1.463	1.341	1.173	1.022
1.5 meters	Far	1.662	1.742	1.862	2.077	2.431	3.561	9.345
	Near	1.37	1.324	1.267	1.194	1.117	1.005	0.899

F = 28 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		11.973	8.53	6.199	4.449	3.327	2.327	1.719
1.2 meters	Far	1.294	1.337	1.402	1.51	1.674	2.095	3.149
	Near	1.121	1.092	1.056	1.008	0.956	0.879	0.801
1 meters	Far	1.059	1.086	1.124	1.187	1.278	1.487	1.901
	Near	0.949	0.929	0.905	0.872	0.836	0.78	0.722
0.8 meters	Far	0.833	0.847	0.867	0.9	0.944	1.039	1.197
	Near	0.771	0.759	0.745	0.725	0.703	0.667	0.629
0.61 meters	Far	0.625	0.631	0.64	0.654	0.672	0.709	0.763
	Near	0.596	0.59	0.583	0.573	0.562	0.543	0.522

F = 28 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		15.584	11.082	8.037	5.752	4.286	2.98	2.186
10 meters	Far	27.229	99.283	∞	∞	∞	∞	∞
	Near	6.185	5.354	4.553	3.742	3.082	2.364	1.85
5 meters	Far	7.181	8.798	12.611	35.931	∞	∞	∞
	Near	3.857	3.529	3.175	2.772	2.405	1.959	1.603
3 meters	Far	3.625	3.973	4.562	5.863	9.138	∞	∞
	Near	2.568	2.426	2.262	2.06	1.86	1.593	1.36
2.5 meters	Far	2.906	3.119	3.459	4.135	5.48	13.676	∞
	Near	2.2	2.098	1.977	1.825	1.67	1.457	1.264
2 meters	Far	2.24	2.358	2.539	2.868	3.426	5.337	19.99
	Near	1.811	1.744	1.663	1.558	1.448	1.291	1.142
1.5 meters	Far	1.621	1.677	1.76	1.9	2.11	2.652	3.996
	Near	1.398	1.361	1.314	1.252	1.185	1.084	0.984

F = 32 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		15.584	11.082	8.037	5.752	4.286	2.98	2.186
1.2 meters	Far	1.27	1.302	1.347	1.422	1.527	1.767	2.227
	Near	1.139	1.115	1.086	1.046	1.002	0.934	0.864
1 meters	Far	1.044	1.064	1.092	1.136	1.197	1.327	1.547
	Near	0.96	0.945	0.925	0.898	0.868	0.82	0.769
0.8 meters	Far	0.825	0.835	0.85	0.874	0.905	0.967	1.064
	Near	0.777	0.768	0.757	0.741	0.722	0.693	0.66
0.61 meters	Far	0.621	0.626	0.633	0.643	0.656	0.682	0.718
	Near	0.599	0.595	0.589	0.581	0.572	0.556	0.539

F = 32 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		23.773	17.209	12.45	8.879	6.59	4.55	3.309
10 meters	Far	16.987	23.363	49.49	∞	∞	∞	∞
	Near	7.121	6.416	5.643	4.801	4.066	3.211	2.559
5 meters	Far	6.23	6.893	8.104	10.974	19.66	∞	∞
	Near	4.187	3.942	3.647	3.289	2.939	2.48	2.085
3 meters	Far	3.379	3.554	3.833	4.341	5.199	8.125	29.819
	Near	2.702	2.603	2.478	2.316	2.145	1.902	1.671
2.5 meters	Far	2.75	2.861	3.034	3.334	3.803	5.11	9.191
	Near	2.295	2.225	2.135	2.017	1.89	1.703	1.52
2 meters	Far	2.15	2.214	2.312	2.474	2.711	3.284	4.516
	Near	1.872	1.827	1.769	1.69	1.603	1.472	1.338
1.5 meters	Far	1.576	1.608	1.655	1.731	1.835	2.06	2.448
	Near	1.432	1.407	1.375	1.33	1.279	1.2	1.115

F = 40 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		23.773	17.209	12.45	8.879	6.59	4.55	3.309
1.2 meters	Far	1.245	1.263	1.29	1.331	1.387	1.502	1.681
	Near	1.159	1.144	1.124	1.096	1.064	1.012	0.955
1 meters	Far	1.028	1.04	1.056	1.082	1.116	1.183	1.281
	Near	0.974	0.964	0.951	0.932	0.91	0.875	0.835
0.8 meters	Far	0.816	0.822	0.831	0.845	0.863	0.897	0.946
	Near	0.785	0.779	0.772	0.761	0.748	0.727	0.702
0.61 meters	Far	0.617	0.62	0.624	0.63	0.638	0.653	0.673
	Near	0.603	0.6	0.596	0.591	0.585	0.574	0.561

F = 40 mm