

OPTIMO 15 - 40

DEPTH-OF-FIELD TABLES  
DISTANCES IN METERS

Angénieux®



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

**F = 15 - 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 = 15 - 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 2.6	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		3.947	2.852	2.109	1.552	1.194	0.875	0.681
20 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	3.349	2.538	1.941	1.465	1.146	0.853	0.67
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	2.909	2.286	1.797	1.387	1.102	0.831	0.659
5 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	2.302	1.906	1.565	1.253	1.022	0.791	0.637
4 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	2.085	1.76	1.469	1.196	0.987	0.772	0.627
3 meters	Far	11.306	∞	∞	∞	∞	∞	∞
	Near	1.801	1.56	1.333	1.11	0.932	0.743	0.61
2 meters	Far	3.671	5.819	31.745	∞	∞	∞	∞
	Near	1.414	1.27	1.125	0.97	0.839	0.69	0.579

F = 15 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		3.947	2.852	2.109	1.552	1.194	0.875	0.681
1.5 meters	Far	2.195	2.757	4.289	34.402	∞	∞	∞
	Near	1.164	1.071	0.972	0.861	0.762	0.643	0.55
1.2 meters	Far	1.567	1.81	2.307	4.063	∞	∞	∞
	Near	0.988	0.925	0.855	0.773	0.697	0.601	0.523
1 meters	Far	1.219	1.349	1.582	2.17	4.324	∞	∞
	Near	0.858	0.813	0.762	0.701	0.642	0.565	0.499
0.8 meters	Far	0.916	0.977	1.078	1.284	1.723	5.613	∞
	Near	0.716	0.688	0.655	0.614	0.573	0.516	0.466
0.61 meters	Far	0.661	0.686	0.724	0.791	0.902	1.251	2.975
	Near	0.569	0.554	0.537	0.514	0.489	0.454	0.42

F = 15 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		4.65	3.35	2.468	1.806	1.381	1.003	0.772
20 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	3.832	2.917	2.234	1.685	1.314	0.971	0.756
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	3.259	2.582	2.041	1.579	1.253	0.941	0.74
5 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	2.507	2.1	1.739	1.402	1.147	0.887	0.711
4 meters	Far	26.271	∞	∞	∞	∞	∞	∞
	Near	2.248	1.92	1.619	1.327	1.1	0.862	0.697
3 meters	Far	7.765	25.474	∞	∞	∞	∞	∞
	Near	1.917	1.68	1.451	1.219	1.029	0.823	0.674
2 meters	Far	3.228	4.41	8.95	∞	∞	∞	∞
	Near	1.48	1.344	1.202	1.047	0.911	0.754	0.633

F = 17 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		4.65	3.35	2.468	1.806	1.381	1.003	0.772
1.5 meters	Far	2.04	2.419	3.255	7.058	∞	∞	∞
	Near	1.205	1.119	1.025	0.917	0.817	0.695	0.596
1.2 meters	Far	1.492	1.668	1.994	2.862	6.758	∞	∞
	Near	1.015	0.958	0.893	0.815	0.74	0.644	0.562
1 meters	Far	1.177	1.275	1.44	1.801	2.693	235.385	∞
	Near	0.877	0.837	0.79	0.732	0.675	0.599	0.532
0.8 meters	Far	0.895	0.943	1.018	1.162	1.426	2.594	∞
	Near	0.728	0.703	0.673	0.635	0.596	0.542	0.491
0.61 meters	Far	0.652	0.672	0.702	0.753	0.831	1.044	1.656
	Near	0.575	0.562	0.546	0.526	0.503	0.47	0.437



F = 17 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		6.359	4.561	3.341	2.424	1.836	1.312	0.994
20 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	4.896	3.773	2.91	2.199	1.711	1.253	0.963
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	3.98	3.216	2.577	2.012	1.601	1.198	0.934
5 meters	Far	21.986	∞	∞	∞	∞	∞	∞
	Near	2.896	2.483	2.097	1.718	1.419	1.102	0.88
4 meters	Far	10.135	29.807	∞	∞	∞	∞	∞
	Near	2.548	2.229	1.918	1.601	1.342	1.059	0.855
3 meters	Far	5.341	8.037	26.087	∞	∞	∞	∞
	Near	2.123	1.903	1.678	1.438	1.231	0.995	0.817
2 meters	Far	2.746	3.271	4.427	9.676	∞	∞	∞
	Near	1.592	1.473	1.343	1.193	1.055	0.886	0.749

F = 20 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		6.359	4.561	3.341	2.424	1.836	1.312	0.994
1.5 meters	Far	1.85	2.055	2.423	3.339	6.556	∞	∞
	Near	1.272	1.2	1.118	1.019	0.923	0.798	0.691
1.2 meters	Far	1.395	1.5	1.67	2.023	2.783	10.169	∞
	Near	1.059	1.012	0.957	0.888	0.819	0.725	0.641
1 meters	Far	1.12	1.181	1.276	1.453	1.772	3.067	∞
	Near	0.907	0.875	0.836	0.787	0.736	0.664	0.597
0.8 meters	Far	0.865	0.897	0.943	1.024	1.151	1.51	2.677
	Near	0.746	0.727	0.703	0.671	0.638	0.588	0.54
0.61 meters	Far	0.64	0.653	0.672	0.704	0.749	0.853	1.054
	Near	0.584	0.574	0.562	0.545	0.527	0.498	0.469

F = 20 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		9.821	7.016	5.11	3.678	2.759	1.94	1.443
20 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	6.673	5.269	4.133	3.157	2.465	1.799	1.369
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	5.053	4.218	3.469	2.765	2.228	1.677	1.302
5 meters	Far	9.788	16.453	217.357	∞	∞	∞	∞
	Near	3.401	3.015	2.625	2.215	1.867	1.476	1.186
4 meters	Far	6.486	8.799	17.051	∞	∞	∞	∞
	Near	2.923	2.638	2.34	2.014	1.727	1.392	1.135
3 meters	Far	4.153	4.958	6.728	14.622	∞	∞	∞
	Near	2.367	2.183	1.981	1.749	1.535	1.272	1.059
2 meters	Far	2.416	2.649	3.047	3.941	6.292	∞	∞
	Near	1.715	1.623	1.516	1.384	1.255	1.083	0.933

F = 25 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		9.821	7.016	5.11	3.678	2.759	1.94	1.443
1.5 meters	Far	1.704	1.808	1.971	2.281	2.851	5.367	$\infty$
	Near	1.344	1.291	1.227	1.145	1.06	0.942	0.834
1.2 meters	Far	1.317	1.373	1.458	1.607	1.846	2.562	5.366
	Near	1.105	1.071	1.03	0.975	0.918	0.833	0.752
1 meters	Far	1.073	1.107	1.157	1.241	1.367	1.687	2.461
	Near	0.938	0.915	0.887	0.849	0.808	0.747	0.685
0.8 meters	Far	0.84	0.859	0.884	0.927	0.986	1.119	1.367
	Near	0.764	0.751	0.734	0.711	0.685	0.645	0.603
0.61 meters	Far	0.629	0.637	0.648	0.666	0.689	0.738	0.815
	Near	0.593	0.586	0.578	0.566	0.553	0.531	0.507

F = 25 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		14.057	10.018	7.273	5.21	3.888	2.709	1.992
20 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	8.35	6.762	5.41	4.197	3.308	2.426	1.843
10 meters	Far	33.714	6681.301	∞	∞	∞	∞	∞
	Near	5.938	5.103	4.306	3.514	2.878	2.196	1.714
5 meters	Far	7.549	9.602	15.17	116.693	∞	∞	∞
	Near	3.764	3.422	3.058	2.65	2.284	1.846	1.503
4 meters	Far	5.439	6.406	8.426	15.991	∞	∞	∞
	Near	3.181	2.938	2.67	2.359	2.07	1.709	1.416
3 meters	Far	3.711	4.121	4.841	6.563	11.891	∞	∞
	Near	2.528	2.377	2.204	1.994	1.79	1.521	1.291
2 meters	Far	2.27	2.406	2.617	3.015	3.727	6.612	∞
	Near	1.792	1.72	1.634	1.523	1.408	1.246	1.096

F = 30 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		14.057	10.018	7.273	5.21	3.888	2.709	1.992
1.5 meters	Far	1.635	1.7	1.795	1.958	2.213	2.91	4.978
	Near	1.388	1.347	1.297	1.231	1.16	1.055	0.952
1.2 meters	Far	1.278	1.314	1.366	1.451	1.575	1.869	2.477
	Near	1.132	1.107	1.075	1.033	0.985	0.914	0.84
1 meters	Far	1.049	1.072	1.103	1.153	1.224	1.379	1.653
	Near	0.956	0.939	0.918	0.889	0.856	0.805	0.752
0.8 meters	Far	0.827	0.84	0.856	0.883	0.918	0.991	1.106
	Near	0.775	0.765	0.753	0.735	0.715	0.683	0.648
0.61 meters	Far	0.623	0.628	0.636	0.647	0.662	0.691	0.734
	Near	0.598	0.593	0.587	0.579	0.568	0.552	0.533

F = 30 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		22.217	16.335	11.823	8.436	6.264	4.328	3.15
20 meters	Far	198.022	∞	∞	∞	∞	∞	∞
	Near	10.623	9.088	7.522	6.015	4.841	3.614	2.767
10 meters	Far	17.876	25.205	63.11	∞	∞	∞	∞
	Near	6.98	6.295	5.515	4.673	3.944	3.103	2.466
5 meters	Far	6.341	7.038	8.389	11.743	23.458	∞	∞
	Near	4.14	3.898	3.596	3.231	2.877	2.417	2.025
4 meters	Far	4.795	5.174	5.853	7.272	10.43	50.089	∞
	Near	3.44	3.274	3.062	2.799	2.534	2.177	1.859
3 meters	Far	3.409	3.59	3.892	4.45	5.419	8.983	60.604
	Near	2.683	2.585	2.455	2.288	2.114	1.866	1.635
2 meters	Far	2.161	2.227	2.332	2.507	2.765	3.406	4.863
	Near	1.863	1.819	1.758	1.676	1.587	1.452	1.316

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		22.217	16.335	11.823	8.436	6.264	4.328	3.15
1.5 meters	Far	1.582	1.615	1.665	1.746	1.858	2.104	2.538
	Near	1.427	1.403	1.369	1.322	1.269	1.187	1.101
1.2 meters	Far	1.248	1.267	1.295	1.339	1.399	1.523	1.72
	Near	1.156	1.141	1.12	1.091	1.058	1.004	0.945
1 meters	Far	1.03	1.042	1.06	1.087	1.123	1.195	1.302
	Near	0.972	0.962	0.948	0.929	0.906	0.869	0.828
0.8 meters	Far	0.817	0.823	0.833	0.848	0.867	0.904	0.956
	Near	0.784	0.778	0.77	0.759	0.745	0.723	0.698
0.61 meters	Far	0.618	0.621	0.625	0.632	0.64	0.656	0.678
	Near	0.602	0.6	0.596	0.59	0.584	0.572	0.559

F = 40 mm