

OPTIMO 48-130

DEPTH-OF-FIELD TABLES
DISTANCE IN METERS

Angénieux®

REFERENCE : 321901 - A

DEPTH-OF-FIELD TABLES

F = 48 - 130 mm

The depths of field tables are provided for information purposes only and are estimated with a circle of confusion of 0.013mm (1/2000inch). 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 = 48 - 130 mm

Les tables de profondeur de champ sont fournies à titre indicatif pour un cercle de confusion moyen de 0.013mm (1/2000inch).

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 les 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 : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		67.301	51.716	37.013	25.968	18.936	13.078	9.555
20 meters	Far	28.388	32.524	43.417	87.574	∞	∞	∞
	Near	15.455	14.465	13.032	11.35	9.779	7.958	6.512
10 meters	Far	11.712	12.353	13.639	16.174	21.092	42.982	INFINI
	Near	8.73	8.408	7.908	7.262	6.592	5.719	4.939
7 meters	Far	7.79	8.066	8.59	9.521	11.019	14.964	26.436
	Near	6.358	6.188	5.915	5.549	5.152	4.608	4.092
5 meters	Far	5.385	5.514	5.751	6.148	6.732	8.006	10.387
	Near	4.668	4.576	4.427	4.221	3.99	3.659	3.33
4 meters	Far	4.24	4.318	4.461	4.694	5.022	5.69	6.784
	Near	3.787	3.727	3.628	3.491	3.333	3.101	2.864
3 meters	Far	3.13	3.172	3.247	3.366	3.529	3.839	4.298
	Near	2.881	2.846	2.79	2.709	2.615	2.473	2.322

F = 48 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		67.301	51.716	37.013	25.968	18.936	13.078	9.555
2.5 meters	Far	2.588	2.617	2.666	2.745	2.851	3.047	3.324
	Near	2.418	2.394	2.354	2.297	2.23	2.127	2.017
2 meters	Far	2.055	2.072	2.103	2.15	2.213	2.326	2.48
	Near	1.948	1.933	1.908	1.871	1.827	1.759	1.685
1.7 meters	Far	1.739	1.751	1.772	1.805	1.848	1.925	2.027
	Near	1.663	1.652	1.634	1.608	1.576	1.526	1.471
1.4 meters	Far	1.425	1.433	1.447	1.468	1.495	1.544	1.607
	Near	1.376	1.369	1.356	1.339	1.317	1.283	1.245
1.1 meters	Far	1.115	1.119	1.127	1.139	1.155	1.182	1.217
	Near	1.086	1.081	1.074	1.064	1.051	1.03	1.006
0.94 meter	Far	0.95	0.953	0.959	0.967	0.978	0.997	1.02
	Near	0.93	0.927	0.922	0.914	0.905	0.891	0.874

F = 48 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		86.127	66.181	47.358	33.215	24.211	16.708	12.196
20 meters	Far	25.996	28.593	34.53	50.221	116.696	∞	∞
	Near	16.263	15.396	14.105	12.532	11.004	9.155	7.625
10 meters	Far	11.288	11.746	12.629	14.239	16.947	24.854	57.091
	Near	8.979	8.711	8.287	7.723	7.12	6.305	5.547
7 meters	Far	7.602	7.805	8.181	8.821	9.781	11.956	16.358
	Near	6.488	6.349	6.122	5.812	5.467	4.977	4.496
5 meters	Far	5.296	5.392	5.567	5.852	6.254	7.066	8.383
	Near	4.737	4.663	4.541	4.37	4.174	3.886	3.59
4 meters	Far	4.185	4.244	4.351	4.521	4.754	5.204	5.876
	Near	3.831	3.783	3.704	3.59	3.459	3.26	3.052
3 meters	Far	3.101	3.133	3.189	3.278	3.397	3.616	3.922
	Near	2.906	2.879	2.833	2.768	2.69	2.571	2.441

F = 55 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		86.127	66.181	47.358	33.215	24.211	16.708	12.196
2.5 meters	Far	2.569	2.59	2.628	2.687	2.765	2.906	3.097
	Near	2.435	2.416	2.385	2.339	2.284	2.199	2.105
2 meters	Far	2.043	2.056	2.079	2.115	2.162	2.245	2.355
	Near	1.959	1.947	1.927	1.898	1.862	1.807	1.744
1.7 meters	Far	1.73	1.739	1.756	1.781	1.813	1.87	1.944
	Near	1.671	1.663	1.648	1.627	1.602	1.561	1.515
1.4 meters	Far	1.42	1.426	1.436	1.452	1.473	1.509	1.556
	Near	1.381	1.375	1.366	1.352	1.334	1.307	1.276
1.1 meters	Far	1.11	1.115	1.121	1.13	1.142	1.163	1.189
	Near	1.089	1.085	1.08	1.071	1.061	1.045	1.025
0.94 meter	Far	0.948	0.95	0.955	0.961	0.969	0.984	1.001
	Near	0.932	0.93	0.926	0.92	0.913	0.901	0.887

F = 55 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		120.194	92.358	66.081	46.329	33.754	23.276	16.974
20 meters	Far	23.956	25.48	28.613	35.106	49.046	145.695	∞
	Near	17.172	16.471	15.391	14.014	12.608	10.809	9.234
10 meters	Far	10.89	11.191	11.75	12.704	14.144	17.446	24.298
	Near	9.247	9.042	8.71	8.255	7.752	7.039	6.342
7 meters	Far	7.42	7.558	7.806	8.213	8.785	9.943	11.827
	Near	6.626	6.521	6.348	6.105	5.828	5.419	5
5 meters	Far	5.208	5.275	5.393	5.581	5.837	6.32	7.022
	Near	4.808	4.753	4.662	4.531	4.379	4.147	3.899
4 meters	Far	4.131	4.172	4.245	4.359	4.512	4.792	5.18
	Near	3.878	3.842	3.783	3.697	3.596	3.44	3.27
3 meters	Far	3.071	3.094	3.133	3.194	3.273	3.415	3.604
	Near	2.932	2.912	2.878	2.83	2.771	2.679	2.576

F = 65 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		120.194	92.358	66.081	46.329	33.754	23.276	16.974
2.5 meters	Far	2.549	2.564	2.59	2.631	2.684	2.777	2.899
	Near	2.453	2.44	2.416	2.382	2.341	2.276	2.203
2 meters	Far	2.03	2.04	2.056	2.081	2.113	2.169	2.241
	Near	1.971	1.962	1.947	1.926	1.899	1.857	1.809
1.7 meters	Far	1.721	1.728	1.739	1.757	1.779	1.818	1.867
	Near	1.679	1.673	1.663	1.647	1.628	1.598	1.563
1.4 meters	Far	1.414	1.418	1.426	1.437	1.452	1.476	1.508
	Near	1.386	1.382	1.375	1.365	1.352	1.332	1.308
1.1 meters	Far	1.108	1.111	1.115	1.122	1.13	1.144	1.162
	Near	1.092	1.09	1.085	1.079	1.072	1.06	1.045
0.94 meter	Far	0.946	0.947	0.951	0.955	0.961	0.971	0.983
	Near	0.934	0.933	0.93	0.925	0.92	0.912	0.901

F = 65 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		159.928	122.897	87.923	61.63	44.888	30.937	22.547
20 meters	Far	22.831	23.852	25.839	29.539	35.991	56.644	184.131
	Near	17.798	17.226	16.325	15.139	13.88	12.197	10.651
10 meters	Far	10.654	10.868	11.259	11.901	12.817	14.707	17.888
	Near	9.423	9.262	8.998	8.629	8.209	7.596	6.972
7 meters	Far	7.311	7.411	7.588	7.872	8.259	8.997	10.084
	Near	6.715	6.633	6.498	6.305	6.08	5.74	5.38
5 meters	Far	5.155	5.203	5.289	5.424	5.603	5.928	6.376
	Near	4.855	4.812	4.742	4.639	4.518	4.33	4.124
4 meters	Far	4.097	4.128	4.181	4.264	4.372	4.566	4.823
	Near	3.907	3.88	3.835	3.768	3.689	3.563	3.424
3 meters	Far	3.053	3.07	3.099	3.143	3.2	3.301	3.431
	Near	2.949	2.933	2.908	2.87	2.824	2.752	2.67

F = 75 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		159.928	122.897	87.923	61.63	44.888	30.937	22.547
2.5 meters	Far	2.536	2.548	2.567	2.597	2.635	2.702	2.787
	Near	2.465	2.454	2.437	2.41	2.379	2.328	2.27
2 meters	Far	2.023	2.03	2.042	2.06	2.084	2.124	2.175
	Near	1.978	1.971	1.96	1.944	1.923	1.891	1.853
1.7 meters	Far	1.716	1.721	1.729	1.742	1.759	1.787	1.822
	Near	1.684	1.68	1.672	1.66	1.645	1.622	1.595
1.4 meters	Far	1.411	1.414	1.419	1.428	1.438	1.457	1.479
	Near	1.39	1.387	1.381	1.374	1.364	1.348	1.33
1.1 meters	Far	1.106	1.108	1.111	1.116	1.122	1.133	1.146
	Near	1.094	1.092	1.089	1.084	1.079	1.069	1.058
0.94 meter	Far	0.944	0.946	0.948	0.951	0.956	0.963	0.972
	Near	0.936	0.934	0.932	0.929	0.925	0.918	0.911

F = 75 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		284.058	218.316	156.186	109.446	79.682	54.879	39.963
20 meters	Far	21.5	21.998	22.91	24.433	26.65	31.401	39.989
	Near	18.697	18.338	17.751	16.937	16.021	14.699	13.376
10 meters	Far	10.357	10.47	10.67	10.986	11.408	12.189	13.285
	Near	9.667	9.571	9.41	9.179	8.906	8.486	8.032
7 meters	Far	7.172	7.225	7.319	7.465	7.655	7.996	8.449
	Near	6.837	6.789	6.708	6.591	6.45	6.229	5.983
5 meters	Far	5.086	5.112	5.159	5.23	5.321	5.482	5.688
	Near	4.917	4.893	4.851	4.79	4.716	4.599	4.465
4 meters	Far	4.054	4.071	4.1	4.144	4.201	4.299	4.423
	Near	3.947	3.932	3.905	3.866	3.818	3.742	3.653
3 meters	Far	3.03	3.039	3.055	3.079	3.109	3.162	3.227
	Near	2.971	2.962	2.947	2.925	2.899	2.855	2.804

F = 100 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		284.058	218.316	156.186	109.446	79.682	54.879	39.963
2.5 meters	Far	2.52	2.527	2.537	2.554	2.574	2.61	2.653
	Near	2.48	2.474	2.464	2.449	2.43	2.4	2.365
2 meters	Far	2.013	2.017	2.023	2.033	2.046	2.068	2.095
	Near	1.987	1.984	1.977	1.968	1.956	1.937	1.914
1.7 meters	Far	1.709	1.712	1.716	1.724	1.733	1.748	1.766
	Near	1.691	1.688	1.684	1.677	1.669	1.655	1.639
1.4 meters	Far	1.406	1.408	1.411	1.415	1.421	1.431	1.443
	Near	1.394	1.392	1.389	1.385	1.379	1.37	1.36
1.1 meters	Far	1.103	1.104	1.106	1.109	1.112	1.118	1.125
	Near	1.097	1.096	1.094	1.091	1.088	1.082	1.076
0.94 meter	Far	0.942	0.943	0.944	0.946	0.949	0.953	0.958
	Near	0.938	0.937	0.936	0.934	0.932	0.928	0.923

F = 100 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		425.289	345.15	246.928	173.021	125.947	86.717	63.125
20 meters	Far	20.977	21.218	21.746	22.59	23.744	25.952	29.224
	Near	19.111	18.915	18.516	17.947	17.284	16.284	15.226
10 meters	Far	10.236	10.292	10.414	10.601	10.846	11.28	11.85
	Near	9.775	9.724	9.619	9.464	9.279	8.985	8.657
7 meters	Far	7.114	7.141	7.198	7.287	7.4	7.598	7.85
	Near	6.89	6.865	6.813	6.736	6.642	6.492	6.32
5 meters	Far	5.057	5.07	5.099	5.143	5.198	5.294	5.414
	Near	4.944	4.932	4.905	4.865	4.817	4.738	4.647
4 meters	Far	4.036	4.044	4.062	4.09	4.125	4.184	4.257
	Near	3.965	3.957	3.94	3.914	3.883	3.832	3.773
3 meters	Far	3.02	3.024	3.034	3.049	3.068	3.1	3.14
	Near	2.98	2.976	2.966	2.952	2.935	2.906	2.873

F = 130 mm

Distance in meters | Confusion circle : 0.013 mm

APERTURE		T 3	T 4	T 5.6	T 8	T11	T16	T22
HYPERFOCAL DISTANCE		425.289	345.15	246.928	173.021	125.947	86.717	63.125
2.5 meters	Far	2.514	2.517	2.523	2.534	2.546	2.568	2.595
	Near	2.487	2.484	2.477	2.467	2.455	2.436	2.412
2 meters	Far	2.008	2.01	2.015	2.021	2.029	2.042	2.059
	Near	1.992	1.99	1.986	1.98	1.972	1.96	1.945
1.7 meters	Far	1.706	1.707	1.71	1.715	1.72	1.73	1.741
	Near	1.694	1.693	1.69	1.685	1.68	1.671	1.661
1.4 meters	Far	1.404	1.405	1.407	1.41	1.413	1.42	1.427
	Near	1.396	1.395	1.393	1.39	1.387	1.381	1.374
1.1 meters	Far	1.102	1.103	1.104	1.106	1.108	1.111	1.116
	Near	1.098	1.097	1.096	1.094	1.092	1.089	1.085
0.94 meter	Far	0.942	0.942	0.943	0.944	0.945	0.948	0.951
	Near	0.938	0.938	0.937	0.936	0.935	0.932	0.929

F = 130 mm