



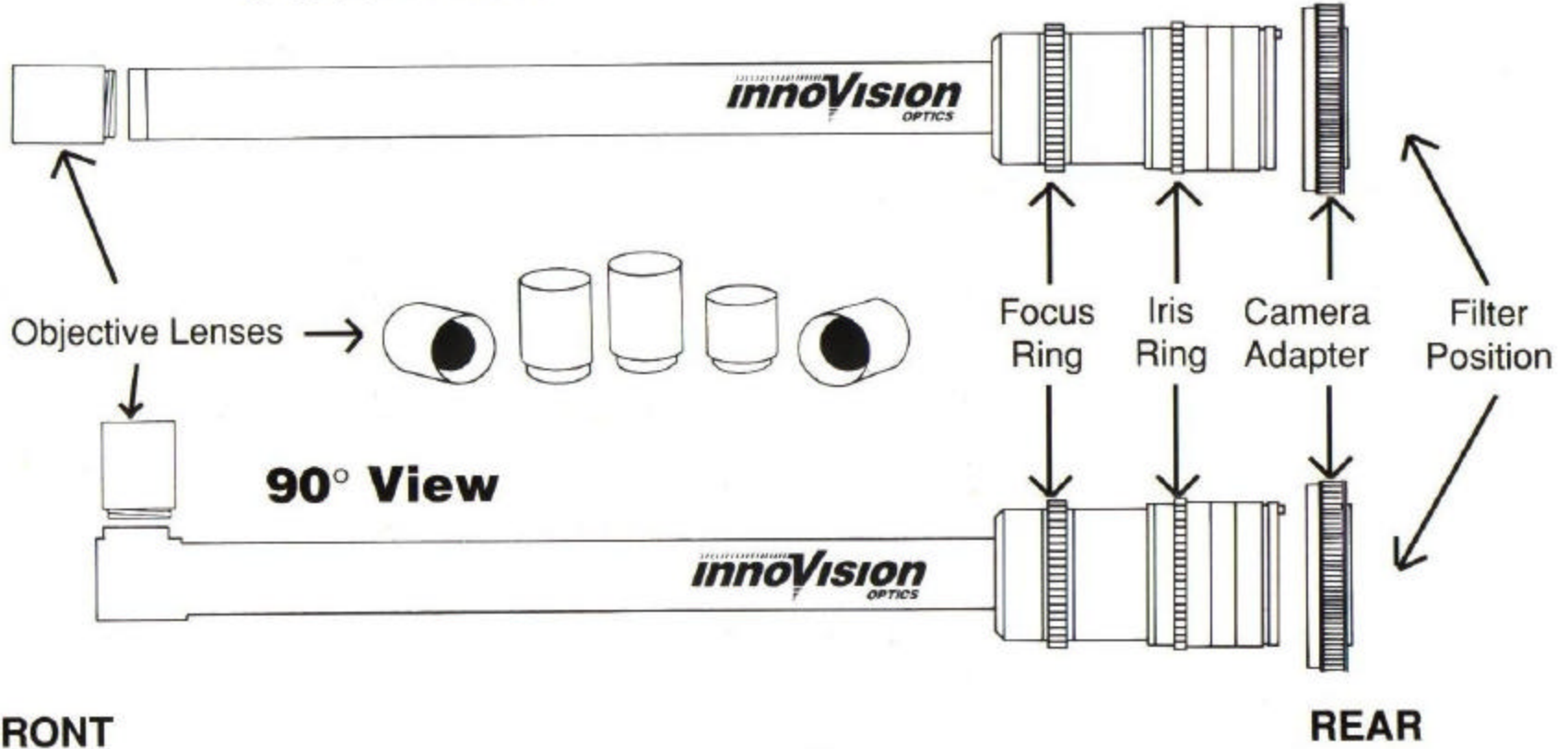
1719 21st Street Santa Monica, CA 90404



16mm Probe I Lens System Manual & Depth of Field Charts

For additional technical support
Please Call InnoVision Optics at 310-453-4866

Direct View



Warning: This lens is NOT waterproof

16mm Probe I Minimum Focus Chart

Lens	Minimum Focus
5mm	0.3 Inch
6.5mm	0.5 Inch
9mm	1.3 Inches
12.5mm	2 Inches
18mm	5 Inches
28mm	11 Inches
40mm	22 Inches
60mm	45 Inches

16mm Probe I**LENS: 18 mm**

Circle of Confusion: 0.0006

T-Stop

Distance(in)	5	6	7	8	9	10	11	12	13	
8	Near	4.772	5.675	6.561	7.432	8.287	9.128	9.954	10.765	11.563
	Far	5.251	6.365	7.502	8.662	9.847	11.057	12.292	13.555	14.844
11	Near	4.692	5.561	6.410	7.239	8.048	8.838	9.611	10.365	11.103
	Far	5.352	6.514	7.709	8.940	10.207	11.513	12.859	14.247	15.679
16	Near	4.564	5.383	6.174	6.939	7.679	8.395	9.089	9.761	10.412
	Far	5.528	6.777	8.081	9.444	10.870	12.363	13.929	15.572	17.299
22	Near	4.419	5.183	5.912	6.610	7.278	7.919	8.533	9.123	9.689
	Far	5.757	7.123	8.578	10.130	11.789	13.566	15.474	17.529	19.748
32	Near	4.198	4.880	5.522	6.126	6.696	7.234	7.743	8.226	8.684
	Far	6.182	7.786	9.558	11.525	13.721	16.190	18.983	22.172	25.846

T-Stop

Distance(in)	14	16	18	20	22	24	30	36	48	
8	Near	12.348	13.878	15.358	16.790	18.178	19.522	23.315	26.784	32.904
	Far	16.163	18.889	21.740	24.727	27.858	31.144	42.060	54.885	88.689
11	Near	11.824	13.220	14.557	15.837	17.066	18.245	21.517	24.438	29.433
	Far	17.157	20.260	23.577	27.131	30.948	35.058	49.527	68.326	130.019
16	Near	11.044	12.253	13.392	14.468	15.487	16.452	19.066	21.325	25.032
	Far	19.116	23.050	27.443	32.379	37.967	44.344	70.336	115.448	582.248
22	Near	10.234	11.263	12.219	13.109	13.939	14.716	16.774	18.497	21.223
	Far	22.151	27.612	34.163	42.166	52.164	65.009	141.863	669.576	INFINITY
32	Near	9.119	9.927	10.662	11.334	11.949	12.516	13.973	15.149	16.930
	Far	30.123	41.206	57.724	84.974	138.450	291.124	INFINITY	INFINITY	INFINITY

16mm Probe I**LENS: 28 mm**

Circle of Confusion: 0.0006

T-Stop

Distance(in)	10	11	12	13	14	15	16	17	18	
8	Near	9.620	10.542	11.457	12.365	13.266	14.161	15.049	15.930	16.805
	Far	10.411	11.500	12.597	13.704	14.820	15.945	17.079	18.224	19.378
11	Near	9.485	10.380	11.266	12.143	13.011	13.870	14.721	15.563	16.397
	Far	10.574	11.699	12.837	13.988	15.152	16.330	17.523	18.729	19.950
16	Near	9.268	10.121	10.961	11.789	12.606	13.411	14.205	14.987	15.759
	Far	10.858	12.047	13.257	14.488	15.741	17.016	18.315	19.637	20.984
22	Near	9.020	9.826	10.616	11.391	12.152	12.898	13.631	14.350	15.056
	Far	11.219	12.493	13.799	15.138	16.511	17.920	19.366	20.850	22.375
32	Near	8.636	9.371	10.087	10.785	11.464	12.126	12.771	13.401	14.014
	Far	11.876	13.314	14.807	16.360	17.976	19.659	21.413	23.243	25.154

T-Stop

Distance(in)	20	22	24	26	28	30	36	48	60	
8	Near	18.536	20.241	21.922	23.579	25.212	26.822	31.518	40.350	48.505
	Far	21.716	24.094	26.513	28.976	31.482	34.033	41.968	59.230	78.637
11	Near	18.040	19.652	21.232	22.783	24.304	25.797	30.112	38.074	45.253
	Far	22.437	24.985	27.597	30.275	33.022	35.840	44.750	64.926	89.004
16	Near	17.271	18.743	20.175	21.570	22.928	24.252	28.029	34.803	40.706
	Far	23.753	26.628	29.615	32.721	35.953	39.318	50.307	77.319	114.067
22	Near	16.431	17.757	19.037	20.274	21.470	22.627	25.880	31.550	36.325
	Far	25.551	28.908	32.463	36.233	40.238	44.502	59.118	100.291	172.287
32	Near	15.198	16.325	17.401	18.429	19.412	20.353	22.948	27.298	30.801
	Far	29.240	33.721	38.660	44.127	50.215	57.034	83.487	198.669	1153.629

16mm Probe I**LENS: 40 mm**

Circle of Confusion: 0.0006

T-Stop

Distance(in)	20	22	24	26	28	30	32	34	36	
8	Near	19.255	21.101	22.935	24.754	26.561	28.354	30.134	31.901	33.655
	Far	20.805	22.978	25.169	27.378	29.604	31.849	34.113	36.395	38.696
11	Near	18.989	20.783	22.559	24.317	26.058	27.782	29.489	31.179	32.853
	Far	21.124	23.368	25.637	27.933	30.254	32.603	34.979	37.383	39.814
16	Near	18.563	20.273	21.960	23.623	25.262	26.879	28.473	30.046	31.597
	Far	21.678	24.048	26.458	28.910	31.404	33.942	36.524	39.153	41.829
22	Near	18.076	19.694	21.281	22.839	24.368	25.869	27.343	28.790	30.211
	Far	22.383	24.918	27.515	30.176	32.904	35.701	38.569	41.512	44.533
32	Near	17.318	18.798	20.239	21.643	23.012	24.346	25.646	26.915	28.153
	Far	23.664	26.516	29.477	32.552	35.750	39.076	42.539	46.147	49.911

T-Stop

Distance(in)	38	40	42	44	46	48	50	60	72	
8	Near	35.397	37.126	38.842	40.547	42.239	43.920	45.588	53.757	63.194
	Far	41.017	43.357	45.716	48.096	50.496	52.916	55.357	67.883	83.658
11	Near	34.510	36.152	37.777	39.388	40.983	42.563	44.128	51.739	60.422
	Far	42.275	44.765	47.285	49.836	52.417	55.030	57.674	71.401	89.066
16	Near	33.127	34.637	36.127	37.596	39.047	40.479	41.892	48.691	56.307
	Far	44.554	47.328	50.154	53.033	55.965	58.954	62.000	78.151	99.821
22	Near	31.607	32.979	34.326	35.651	36.953	38.232	39.490	45.477	52.052
	Far	47.634	50.820	54.092	57.456	60.914	64.471	68.132	88.152	116.736
32	Near	29.362	30.542	31.694	32.820	33.920	34.995	36.047	40.969	46.230
	Far	53.839	57.944	62.237	66.732	71.443	76.386	81.579	112.048	162.682

16mm Probe I**LENS: 60 mm**

Circle of Confusion: 0.0006

T-Stop

Distance(in)	40	41	42	43	44	45	46	47	48	
8	Near	38.669	39.603	40.535	41.466	42.395	43.323	44.249	45.174	46.097
	Far	41.425	42.499	43.574	44.652	45.731	46.812	47.895	48.980	50.067
11	Near	38.193	39.104	40.012	40.919	41.823	42.726	43.626	44.525	45.421
	Far	41.986	43.090	44.196	45.304	46.416	47.530	48.647	49.767	50.889
16	Near	37.425	38.299	39.170	40.038	40.904	41.766	42.627	43.484	44.339
	Far	42.956	44.112	45.271	46.435	47.604	48.776	49.953	51.135	52.321
22	Near	36.542	37.375	38.204	39.030	39.852	40.671	41.486	42.297	43.105
	Far	44.181	45.404	46.633	47.869	49.112	50.361	51.617	52.879	54.148
32	Near	35.161	35.931	36.697	37.458	38.214	38.966	39.714	40.457	41.196
	Far	46.384	47.734	49.095	50.467	51.850	53.244	54.650	56.067	57.496

T-Stop

Distance(in)	50	52	54	56	58	60	66	72	84	
8	Near	47.938	49.774	51.603	53.426	55.244	57.055	62.454	67.801	78.339
	Far	52.247	54.435	56.631	58.834	61.046	63.265	69.973	76.754	90.542
11	Near	47.208	48.987	50.758	52.521	54.277	56.024	61.221	66.350	76.408
	Far	53.143	55.408	57.684	59.972	62.272	64.583	71.589	78.702	93.266
16	Near	46.040	47.730	49.410	51.079	52.738	54.386	59.270	64.064	73.393
	Far	54.706	57.109	59.531	61.970	64.429	66.906	74.454	82.180	98.190
22	Near	44.712	46.304	47.883	49.449	51.002	52.542	57.087	61.522	70.075
	Far	56.707	59.294	61.908	64.551	67.223	69.925	78.211	86.781	104.831
32	Near	42.661	44.108	45.539	46.953	48.351	49.733	53.786	57.704	65.165
	Far	60.390	63.332	66.323	69.366	72.461	75.610	85.392	95.712	118.149