

# **innovision<sup>®</sup>** **OPTICS**

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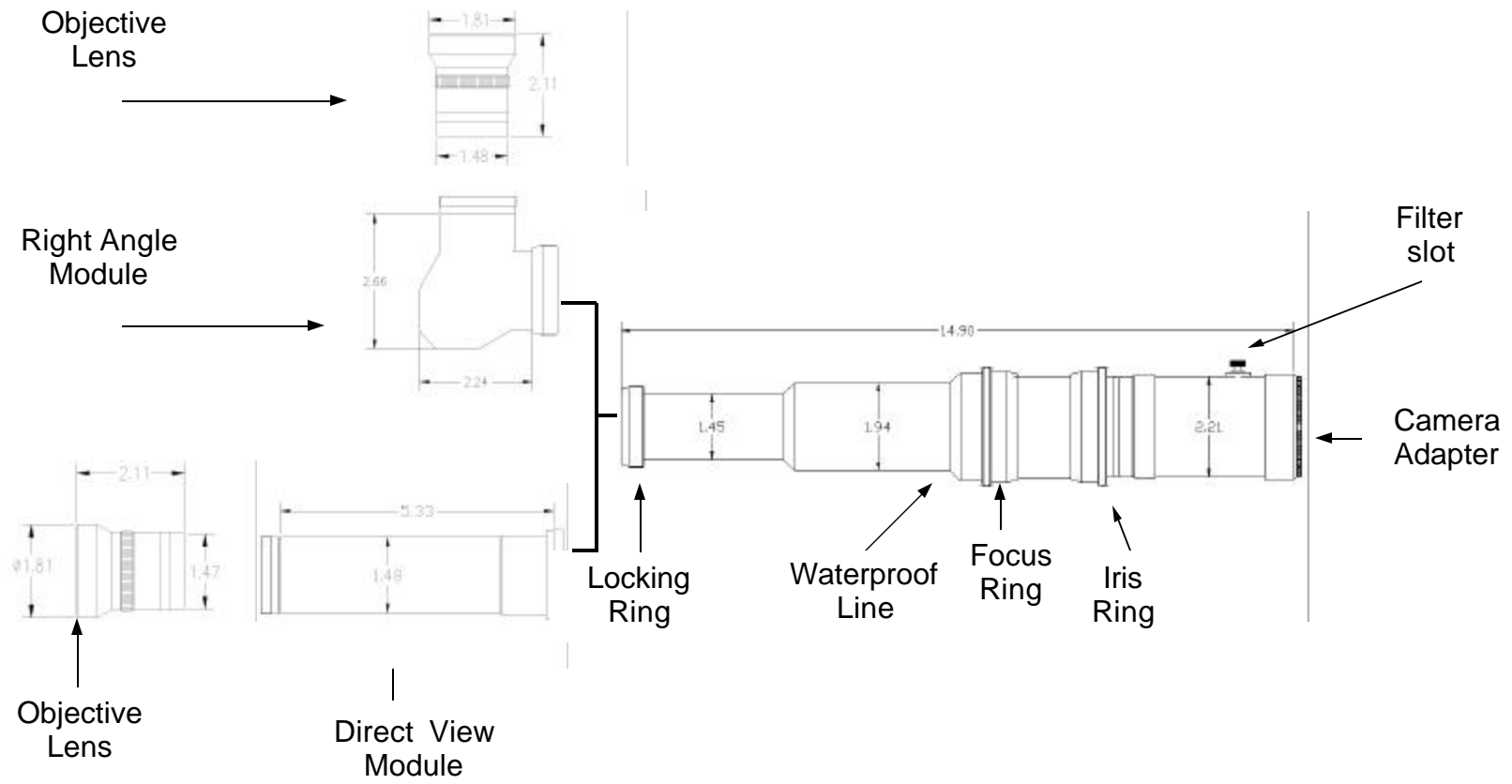


## Video Probe II Plus Lens System Manual & Depth of Field Charts

For additional technical support  
Please Call Innovision Optics at 310-453-4866  
[www.innovisionoptics.com](http://www.innovisionoptics.com)



## Video Probe II Plus Dimensions



## Video Probe II Plus Minimum Focus Chart

Lens	Minimum Focus	Coverage	T-Stop
5mm	0.25 Inch	All Formats	@ T22
7mm	0.5 Inch	All Formats	@ T22
9.5mm	1.25 Inches	All Formats	@ T22
12.5mm	2 Inches	All Formats	@ T22
18mm	5 Inches	All Formats	@ T22
24mm	11 Inches	All Formats	@ T22

**Video Probe II Plus LENS: 5 mm**

Circle of Confusion: 0.00083

T-Stop

Distance(in)	1	2	3	4	5	6	7	8	9	
4	Near	0.921	1.707	2.387	2.979	3.500	3.963	4.376	4.747	5.082
	Far	1.094	2.414	4.038	6.086	8.747	12.347	17.489	25.431	39.318
5.6	Near	0.893	1.613	2.206	2.703	3.126	3.489	3.805	4.082	4.328
	Far	1.136	2.631	4.686	7.689	12.492	21.405	43.651	197.947	INFINITY
8	Near	0.854	1.490	1.981	2.373	2.693	2.958	3.183	3.374	3.540
	Far	1.207	3.043	6.174	12.715	34.909	INFINITY	INFINITY	INFINITY	INFINITY
11	Near	0.809	1.359	1.758	2.059	2.296	2.486	2.642	2.773	2.884
	Far	1.308	3.782	10.233	69.504	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
16	Near	0.745	1.187	1.479	1.687	1.843	1.963	2.059	2.138	2.204
	Far	1.521	6.358	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY

T-Stop

Distance(in)	10	11	12	15	18	21	24	30	36	
4	Near	5.386	5.663	5.917	6.564	7.081	7.502	7.853	8.403	8.814
	Far	69.819	191.137	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
5.6	Near	4.547	4.743	4.919	5.359	5.698	5.968	6.188	6.524	6.769
	Far	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
8	Near	3.685	3.813	3.926	4.201	4.407	4.567	4.694	4.885	5.022
	Far	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
11	Near	2.980	3.063	3.135	3.308	3.434	3.531	3.606	3.718	3.797
	Far	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
16	Near	2.259	2.306	2.347	2.443	2.511	2.562	2.602	2.659	2.699
	Far	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY

**Video Probe II Plus LENS: 7 mm**

Circle of Confusion: 0.00083

T-Stop

Distance(in)	1	2	3	4	5	6	7	8	9	
4	Near	0.958	1.839	2.652	3.405	4.103	4.753	5.360	5.927	6.459
	Far	1.046	2.192	3.453	4.848	6.398	8.133	10.086	12.302	14.837
5.6	Near	0.942	1.782	2.535	3.213	3.829	4.389	4.901	5.371	5.804
	Far	1.065	2.279	3.675	5.297	7.205	9.481	12.246	15.673	20.035
8	Near	0.920	1.702	2.377	2.964	3.479	3.936	4.342	4.708	5.037
	Far	1.096	2.424	4.067	6.151	8.883	12.620	18.040	26.614	42.220
11	Near	0.893	1.612	2.205	2.701	3.123	3.486	3.801	4.078	4.323
	Far	1.137	2.633	4.692	7.705	12.533	21.526	44.157	208.787	INFINITY
16	Near	0.851	1.482	1.968	2.354	2.668	2.928	3.148	3.335	3.497
	Far	1.212	3.076	6.310	13.307	39.764	INFINITY	INFINITY	INFINITY	INFINITY

T-Stop

Distance(in)	10	11	12	15	18	21	24	30	36	
4	Near	6.958	7.428	7.871	9.060	10.074	10.949	11.712	12.979	13.988
	Far	17.766	21.188	25.239	43.566	84.440	256.006	INFINITY	INFINITY	INFINITY
5.6	Near	6.204	6.574	6.919	7.821	8.565	9.190	9.722	10.578	11.239
	Far	25.772	33.658	45.177	182.861	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
8	Near	5.335	5.607	5.856	6.490	6.994	7.405	7.746	8.281	8.680
	Far	79.528	287.082	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
11	Near	4.541	4.737	4.913	5.351	5.689	5.958	6.178	6.513	6.757
	Far	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
16	Near	3.638	3.763	3.873	4.140	4.340	4.495	4.619	4.803	4.935
	Far	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY

**Video Probe II Plus    LENS:    9.5 mm**

Circle of Confusion:    0.00083

T-Stop

Distance(in)	1	2	3	4	5	6	7	8	9	
4	Near	0.977	1.909	2.801	3.653	4.470	5.252	6.003	6.723	7.416
	Far	1.024	2.100	3.230	4.420	5.673	6.996	8.395	9.875	11.445
5.6	Near	0.968	1.875	2.728	3.531	4.288	5.003	5.679	6.320	6.928
	Far	1.034	2.142	3.332	4.613	5.996	7.494	9.122	10.896	12.840
8	Near	0.955	1.827	2.626	3.362	4.041	4.670	5.254	5.798	6.306
	Far	1.050	2.210	3.498	4.937	6.556	8.389	10.483	12.898	15.712
11	Near	0.939	1.769	2.509	3.172	3.770	4.312	4.805	5.256	5.670
	Far	1.070	2.300	3.730	5.413	7.422	9.862	12.888	16.741	21.813
16	Near	0.913	1.681	2.335	2.899	3.391	3.823	4.205	4.547	4.853
	Far	1.105	2.469	4.195	6.449	9.518	13.941	20.866	33.259	61.813

T-Stop

Distance(in)	10	11	12	15	18	21	24	30	36	
4	Near	8.082	8.723	9.340	11.062	12.612	14.015	15.291	17.523	19.413
	Far	13.112	14.886	16.779	23.292	31.425	41.866	55.762	104.166	247.251
5.6	Near	7.506	8.056	8.579	10.011	11.264	12.369	13.352	15.024	16.392
	Far	14.976	17.336	19.957	29.904	44.785	69.481	118.483	9372.092	INFINITY
8	Near	6.781	7.227	7.645	8.762	9.707	10.517	11.219	12.376	13.290
	Far	19.036	23.019	27.881	52.083	123.626	6560.465	INFINITY	INFINITY	INFINITY
11	Near	6.051	6.403	6.729	7.580	8.277	8.859	9.352	10.142	10.748
	Far	28.791	38.998	55.350	714.253	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY
16	Near	5.130	5.381	5.610	6.188	6.645	7.015	7.321	7.796	8.149
	Far	197.365	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY	INFINITY

**Video Probe II Plus LENS: 12.5 mm**

Circle of Confusion: 0.00083

T-Stop

Distance(in)	1	2	3	4	5	6	7	8	9	
4	Near	0.986	1.947	2.881	3.792	4.679	5.544	6.387	7.209	8.012
	Far	1.014	2.056	3.129	4.232	5.368	6.538	7.743	8.985	10.267
5.6	Near	0.981	1.926	2.837	3.715	4.562	5.380	6.171	6.935	7.674
	Far	1.020	2.080	3.183	4.333	5.531	6.781	8.086	9.451	10.879
8	Near	0.973	1.896	2.772	3.605	4.397	5.152	5.873	6.561	7.219
	Far	1.028	2.116	3.269	4.493	5.794	7.181	8.662	10.248	11.948
11	Near	0.964	1.860	2.695	3.476	4.207	4.893	5.538	6.146	6.720
	Far	1.039	2.163	3.383	4.710	6.161	7.754	9.509	11.454	13.622
16	Near	0.948	1.802	2.576	3.280	3.924	4.515	5.058	5.561	6.026
	Far	1.058	2.246	3.591	5.124	6.889	8.942	11.361	14.252	17.769

T-Stop

Distance(in)	10	11	12	15	18	21	24	30	36	
4	Near	8.794	9.559	10.305	12.442	14.438	16.306	18.059	21.258	24.104
	Far	11.589	12.953	14.363	18.883	23.896	29.489	35.768	50.955	71.076
5.6	Near	8.390	9.083	9.754	11.647	13.378	14.968	16.432	19.039	21.290
	Far	12.375	13.944	15.590	21.064	27.500	35.177	44.494	70.713	116.468
8	Near	7.848	8.451	9.029	10.629	12.052	13.327	14.475	16.461	18.118
	Far	13.777	15.750	17.884	25.478	35.538	49.499	70.176	169.016	2769.635
11	Near	7.262	7.776	8.262	9.582	10.723	11.721	12.600	14.078	15.273
	Far	16.051	18.793	21.913	34.520	55.999	100.796	251.973	INFINITY	INFINITY
16	Near	6.459	6.861	7.238	8.230	9.059	9.761	10.363	11.342	12.105
	Far	22.140	27.720	35.088	84.508	1384.817	INFINITY	INFINITY	INFINITY	INFINITY

**Video Probe II Plus    LENS:    18 mm**

Circle of Confusion:    0.00083

Distance(in)		1	2	3	4	5	6	7	8	9
T-Stop	4 Near	0.993	1.974	2.942	3.897	4.840	5.771	6.690	7.598	8.495
	Far	1.007	2.027	3.061	4.109	5.171	6.248	7.340	8.447	9.569
5.6	Near	0.991	1.964	2.919	3.857	4.779	5.684	6.574	7.448	8.308
	Far	1.009	2.038	3.086	4.154	5.243	6.353	7.485	8.640	9.818
8	Near	0.987	1.948	2.886	3.799	4.690	5.559	6.407	7.235	8.043
	Far	1.013	2.054	3.124	4.223	5.354	6.517	7.714	8.946	10.216
11	Near	0.982	1.930	2.845	3.729	4.583	5.410	6.210	6.984	7.734
	Far	1.019	2.075	3.173	4.314	5.500	6.735	8.021	9.362	10.761
16	Near	0.974	1.900	2.780	3.617	4.416	5.178	5.907	6.603	7.270
	Far	1.027	2.112	3.258	4.473	5.762	7.131	8.590	10.146	11.811

Distance(in)		10	11	12	15	18	21	24	30	36
T-Stop	4 Near	9.380	10.254	11.118	13.647	16.086	18.440	20.714	25.035	29.079
	Far	10.708	11.863	13.034	16.651	20.431	24.385	28.526	37.422	47.244
5.6	Near	9.153	9.984	10.800	13.171	15.430	17.583	19.638	23.480	27.003
	Far	11.020	12.247	13.499	17.418	21.598	26.066	30.853	41.532	53.988
8	Near	8.832	9.603	10.357	12.517	14.540	16.436	18.219	21.480	24.390
	Far	11.524	12.872	14.263	18.711	23.622	29.072	35.156	49.723	68.700
11	Near	8.462	9.167	9.851	11.786	13.562	15.198	16.709	19.412	21.759
	Far	12.222	13.750	15.348	20.624	26.755	33.968	42.577	65.992	104.190
16	Near	7.909	8.521	9.109	10.740	12.195	13.502	14.682	16.729	18.443
	Far	13.595	15.512	17.578	24.861	34.350	47.224	65.690	145.143	749.523

**Video Probe II Plus LENS: 24 mm**

Circle of Confusion: 0.00083

T-Stop

Distance(in)	1	2	3	4	5	6	7	8	9	
4	Near	0.996	1.985	2.967	3.941	4.909	5.869	6.822	7.769	8.709
	Far	1.004	2.015	3.034	4.060	5.095	6.137	7.187	8.245	9.312
5.6	Near	0.995	1.979	2.954	3.918	4.873	5.818	6.754	7.680	8.597
	Far	1.005	2.021	3.048	4.085	5.134	6.193	7.265	8.348	9.442
8	Near	0.993	1.971	2.935	3.884	4.821	5.744	6.654	7.551	8.435
	Far	1.007	2.030	3.068	4.123	5.193	6.280	7.384	8.506	9.646
11	Near	0.990	1.960	2.911	3.843	4.757	5.653	6.532	7.395	8.241
	Far	1.010	2.042	3.095	4.171	5.269	6.392	7.540	8.713	9.912
16	Near	0.985	1.942	2.872	3.775	4.654	5.508	6.340	7.149	7.937
	Far	1.015	2.061	3.140	4.253	5.402	6.588	7.814	9.081	10.391

T-Stop

Distance(in)	10	11	12	15	18	21	24	30	36	
4	Near	9.641	10.568	11.487	14.208	16.871	19.479	22.034	26.989	31.750
	Far	10.386	11.469	12.560	15.886	19.291	22.779	26.352	33.767	41.564
5.6	Near	9.505	10.404	11.294	13.913	16.458	18.930	21.334	25.947	30.318
	Far	10.549	11.668	12.800	16.271	19.861	23.578	27.427	35.553	44.303
8	Near	9.308	10.168	11.017	13.495	15.875	18.163	20.365	24.527	28.397
	Far	10.803	11.980	13.176	16.884	20.782	24.887	29.215	38.616	49.163
11	Near	9.072	9.888	10.688	13.005	15.202	17.287	19.270	22.957	26.313
	Far	11.139	12.394	13.679	17.718	22.061	26.743	31.806	43.277	56.975
16	Near	8.705	9.453	10.182	12.264	14.198	16.002	17.686	20.744	23.445
	Far	11.747	13.152	14.607	19.308	24.581	30.539	37.324	54.175	77.500