

CF8ZA-1S

Working Distance [mm]	Optical Magnification	Extension Ring [mm]	Field of View [mm]													
			4/3"		1.2"		1.1"		1"		1/1.2"		2/3"		1/1.8"	
			H	V	H	V	H	V	H	V	H	V	H	V	H	V
1000	0.008x	–	2581.9	1793.1	2106.6	1499.9	1885.2	1355.9	1684.7	1221.8	1112.6	822.2	1376.6	1010.8	889.7	661.0
950	0.009x	–	2454.9	1704.8	2002.9	1426.0	1792.4	1289.1	1601.8	1161.6	1057.8	781.7	1310.7	961.0	845.9	628.5
900	0.009x	–	2327.8	1616.5	1899.2	1352.2	1699.6	1222.3	1518.8	1101.4	1003.0	741.2	1242.8	911.2	802.0	595.9
850	0.010x	–	2200.8	1528.2	1795.5	1278.3	1606.8	1155.5	1435.9	1041.2	948.2	700.7	1174.9	861.4	758.2	563.3
800	0.010x	–	2073.8	1440.0	1691.8	1204.4	1514.0	1088.7	1352.9	981.0	893.4	660.2	1107.0	811.6	714.4	530.7
750	0.011x	–	1946.8	1351.7	1588.2	1130.6	1421.2	1021.9	1269.9	920.9	838.6	619.7	1039.1	761.8	670.5	498.2
700	0.012x	–	1819.8	1263.4	1484.5	1056.7	1328.4	955.2	1187.0	860.7	783.7	579.1	971.2	712.0	626.7	465.6
650	0.013x	–	1692.7	1175.1	1380.8	982.8	1235.6	888.4	1104.0	800.5	728.9	538.6	903.3	662.2	582.9	433.0
600	0.014x	–	1565.7	1086.8	1277.1	909.0	1142.7	821.6	1021.1	740.3	674.1	498.1	835.4	612.4	539.0	400.5
550	0.015x	–	1438.7	998.5	1173.4	835.1	1049.9	754.8	938.1	680.1	619.3	457.6	767.5	562.6	495.2	367.9
500	0.016x	–	1311.7	910.2	1069.7	761.2	957.1	688.0	855.2	619.9	564.5	417.1	699.6	512.8	451.4	335.3
450	0.018x	–	1184.7	822.0	966.0	687.4	864.3	621.3	772.2	559.8	509.7	376.6	631.7	463.0	407.5	302.7
400	0.020x	–	1057.6	733.7	862.3	613.5	771.5	554.5	689.2	499.6	454.9	336.1	563.8	413.2	363.7	270.2
350	0.023x	–	930.6	645.4	758.6	539.6	678.6	487.7	606.3	439.4	400.1	295.6	495.9	363.4	319.8	237.6
300	0.026x	–	803.6	557.1	654.9	465.7	585.8	420.9	523.3	379.2	345.2	255.0	428.0	313.6	276.0	205.0
250	0.031x	–	676.5	468.8	551.2	391.8	493.0	354.1	440.3	319.0	290.4	214.5	360.0	263.8	232.2	172.4
200	0.039x	–	549.4	380.5	445.5	318.0	400.2	287.3	357.3	258.8	235.6	174.0	292.1	214.0	188.3	139.9
150	0.050x	–	422.4	292.1	343.8	244.1	307.3	220.5	274.4	198.6	180.8	133.5	224.2	164.2	144.5	107.3
100	0.073x	–	295.2	203.8	240.0	170.1	214.4	153.7	191.3	138.4	125.9	92.9	156.3	114.3	100.6	74.7

CF16ZA-1S

Working Distance [mm]	Optical Magnification	Extension Ring [mm]	Field of View [mm]													
			4/3"		1.2"		1.1"		1"		1/1.2"		2/3"		1/1.8"	
			H	V	H	V	H	V	H	V	H	V	H	V	H	V
1000	0.016x	–	1155.8	856.9	983.5	730.2	895.1	665.3	811.0	603.4	552.2	412.4	675.6	503.7	445.3	333.0
950	0.017x	–	1099.3	815.0	935.4	694.5	851.3	632.7	771.3	573.9	525.1	392.2	642.5	479.0	423.5	316.7
900	0.018x	–	1042.9	773.0	887.3	658.7	807.5	600.1	731.6	544.3	498.1	372.0	609.4	454.4	401.7	300.4
850	0.019x	–	986.4	731.1	839.2	622.9	763.7	567.5	691.9	514.8	471.0	351.8	576.4	429.7	379.9	284.1
800	0.020x	–	929.9	689.2	791.1	587.2	719.9	535.0	652.2	485.2	444.0	331.6	543.3	405.0	359.0	267.8
750	0.021x	–	873.4	647.2	743.0	551.4	676.1	502.4	612.5	455.7	416.9	311.4	510.2	380.3	336.2	251.4
700	0.023x	–	816.9	605.3	694.9	515.7	632.3	469.8	572.8	428.1	389.9	291.2	477.1	355.7	314.4	235.1
650	0.025x	–	760.4	563.3	646.8	479.9	588.5	437.2	533.1	396.5	362.8	271.0	444.0	331.0	292.6	218.8
600	0.026x	–	703.9	521.4	598.6	444.2	544.7	404.6	493.4	367.0	335.8	250.7	410.9	306.3	270.8	202.5
550	0.029x	–	647.4	479.4	550.5	408.4	500.9	372.0	453.7	337.4	308.7	230.5	377.8	281.8	248.9	186.1
500	0.032x	–	590.9	437.5	502.4	372.6	457.0	339.4	414.0	307.8	281.7	210.3	344.7	256.9	227.1	169.8
450	0.035x	–	534.4	395.5	454.2	336.9	413.2	306.8	374.2	278.3	254.6	190.1	311.6	232.2	205.3	153.5
400	0.039x	–	477.8	353.5	406.1	301.1	369.4	274.2	334.5	248.7	227.5	169.9	278.5	207.5	183.4	137.2
350	0.044x	–	421.3	311.6	357.9	265.3	325.5	241.6	294.8	219.1	200.5	149.6	245.4	182.8	161.6	120.8
300	0.051x	–	364.7	269.6	309.7	229.5	281.7	209.0	255.0	189.5	173.4	129.4	212.3	158.1	139.7	104.5
250	0.061x	–	308.1	227.5	261.5	193.7	237.8	176.4	215.2	159.9	146.3	109.2	179.1	133.4	117.9	88.1
200	0.075x	–	251.4	185.4	213.2	157.8	193.8	143.7	175.4	130.2	119.1	88.9	145.9	108.6	96.0	71.8
150	0.097x	–	194.6	143.3	164.9	121.9	149.8	110.9	135.5	100.6	92.0	68.6	112.7	83.9	74.1	55.4
100	0.138x	–	137.5	101.0	116.3	85.8	105.6	78.1	95.4	70.7	64.7	48.2	79.3	59.0	52.1	38.9

CF35ZA-1S

Working Distance [mm]	Optical Magnification	Extension Ring [mm]	Field of View [mm]													
			4/3"		1.2"		1.1"		1"		1/1.2"		2/3"		1/1.8"	
			H	V	H	V	H	V	H	V	H	V	H	V	H	V
1000	0.034x	–	541.2	403.7	462.0	345.0	421.3	314.9	382.5	288.0	262.0	196.2	319.7	239.3	211.8	158.7
950	0.036x	–	515.0	384.1	439.6	328.3	400.9	299.6	363.9	272.1	249.3	186.7	304.2	227.7	201.5	151.0
900	0.038x	–	488.8	364.6	417.2	311.6	380.5	284.3	345.4	258.3	236.6	177.2	288.7	216.1	191.2	143.3
850	0.040x	–	462.6	345.0	394.8	294.9	360.1	269.1	326.9	244.4	223.9	167.7	273.2	204.5	180.9	135.6
800	0.042x	–	436.4	325.4	372.5	278.1	339.6	253.8	308.3	230.5	211.2	158.2	257.7	192.8	170.7	127.9
750	0.045x	–	410.2	305.9	350.1	261.4	319.2	238.5	289.8	216.7	198.5	148.6	242.2	181.2	160.4	120.2
700	0.048x	–	384.0	286.3	327.7	244.7	298.8	223.3	271.2	202.8	185.8	139.1	226.7	169.6	150.1	112.5
650	0.051x	–	357.7	266.7	305.3	227.9	278.4	208.0	252.7	188.9	173.1	129.6	211.2	158.0	139.8	104.8
600	0.056x	–	331.5	247.1	282.9	211.2	257.9	192.7	234.1	175.0	160.3	120.1	195.6	146.4	129.6	97.1
550	0.060x	–	305.3	227.5	260.5	194.4	237.5	177.4	215.5	161.1	147.6	110.5	180.1	134.8	119.3	89.4
500	0.066x	–	279.0	207.9	238.0	177.7	217.0	162.1	197.0	147.2	134.9	101.0	164.6	123.1	109.0	81.6
450	0.073x	–	252.7	188.3	215.6	160.9	196.5	146.8	178.4	133.3	122.1	91.4	149.0	111.5	98.7	73.9
400	0.082x	–	226.4	168.6	193.1	144.1	176.0	131.4	159.7	119.4	109.4	81.9	133.5	99.8	88.4	66.2
350	0.093x	–	200.0	148.9	170.6	127.2	155.5	116.1	141.1	105.4	96.6	72.3	117.9	88.2	78.0	58.4
300	0.107x	–	173.6	129.2	148.0	110.4	134.9	100.7	122.4	91.4	83.8	62.7	102.2	76.5	67.7	50.7
250	0.127x	–	147.1	109.4	125.3	93.4	114.2	85.2	103.8	77.4	70.9	53.1	86.6	64.7	57.3	42.9
200	0.156x	–	120.4	89.5	102.5	76.4	93.4	69.7	84.8	63.3	58.0	43.4	70.8	52.9	46.8	35.1
150	0.201x	1.5	93.3	69.3	79.5	59.2	72.4	54.0	65.7	49.0	44.9	33.6	54.8	41.0	36.2	27.1
100	0.282x	5	65.6	48.6	55.8	41.5	50.8	37.8	46.0	34.3	31.4	23.5	38.4	28.7	25.4	19.0

CF12ZA-1S

Working Distance [mm]	Optical Magnification	Extension Ring [mm]	Field of View [mm]													
			4/3"		1.2"		1.1"		1"		1/1.2"		2/3"		1/1.8"	
			H	V	H	V	H	V	H	V	H	V	H	V	H	V
1000	0.012x	—	1639.0	1179.8	1389.9	995.1	1236.5	902.4	1112.2	815.2	743.6	551.4	917.0	676.5	596.3	443.9
950	0.013x	—	1558.6	1121.9	1302.7	946.2	1175.8	858.1	1057.6	775.1	707.1	524.3	872.0	643.3	567.0	422.1
900	0.013x	—	1478.3	1064.0	1235.5	897.4	1115.2	813.8	1003.0	735.1	670.6	497.2	827.0	610.0	537.7	400.3
850	0.014x	—	1398.0	1006.1	1168.3	848.5	1054.5	769.4	948.4	695.1	634.1	470.2	782.0	576.8	508.4	378.5
800	0.015x	—	1317.6	948.2	1101.1	799.7	993.8	725.1	893.8	655.0	597.5	443.1	736.9	543.6	479.1	356.7
750	0.016x	—	1237.3	890.3	1033.9	750.8	933.1	680.8	839.3	615.0	561.0	416.0	691.9	510.4	449.9	334.9
700	0.017x	—	1157.0	832.4	966.7	702.0	872.5	636.5	784.7	570.5	524.5	388.9	646.9	477.1	420.6	313.0
650	0.019x	—	1076.6	774.5	899.5	653.1	811.8	592.2	730.1	535.0	488.0	361.8	601.9	443.9	391.3	291.2
600	0.020x	—	996.3	716.6	832.3	604.3	751.1	547.9	675.5	494.9	451.5	334.7	556.8	410.7	362.0	269.4
550	0.022x	—	915.9	658.7	795.1	555.4	690.4	503.6	620.9	454.9	414.9	307.6	511.8	377.5	332.7	247.6
500	0.024x	—	835.6	600.8	697.9	506.6	629.7	459.3	566.3	414.9	378.4	280.8	466.8	344.2	303.4	225.8
450	0.026x	—	755.2	542.9	630.7	457.7	569.1	415.0	511.7	374.8	341.9	253.5	421.7	311.0	274.1	204.0
400	0.030x	—	674.8	485.0	563.5	408.8	508.4	370.7	457.1	334.8	305.4	226.4	376.7	277.8	244.8	182.2
350	0.034x	—	594.5	427.0	496.2	360.0	447.7	326.3	402.5	294.7	268.8	199.3	331.7	244.5	215.5	160.4
300	0.039x	—	514.1	369.1	429.0	311.1	387.0	282.0	347.9	254.7	232.3	172.2	286.6	211.3	186.2	138.6
250	0.046x	—	433.7	311.2	361.7	262.2	326.2	237.7	293.2	214.6	195.7	145.1	241.6	178.0	156.9	116.8
200	0.057x	—	353.2	253.2	294.5	213.3	265.5	193.3	238.6	174.6	159.2	118.0	196.5	144.8	127.6	94.9
150	0.074x	—	272.7	195.2	227.1	164.4	204.7	148.9	183.9	134.5	122.6	90.8	151.4	111.5	98.2	73.1
100	0.105x	—	192.0	137.1	159.7	115.3	143.8	104.5	129.1	94.3	82.0	63.7	106.2	78.2	68.9	51.2