

CF-HA series, 1", 9.1μm, 1.5MP

- Low distortion
- Large maximum aperture

Distribution in the UK & Ireland

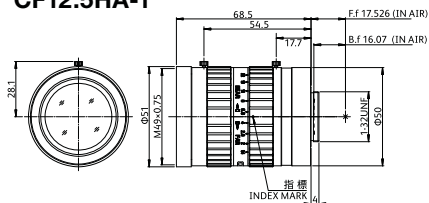


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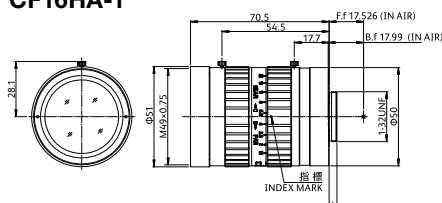


	CF12.5HA-1	CF16HA-1	CF25HA-1	CF35HA-1	CF50HA-1	CF75HA-1
Focal length [mm]	12.5	16	25	35	50	75
Iris range [F. no]	F1.4-F22	F1.4-F22	F1.4-F22	F1.4-F22	F1.8-F22	F1.8-F22
Angle of view : 1"	53.1°×41.2°	42.6°×32.8°	29.9°×22.7°	20.3°×15.3°	14.1°×10.6°	9.8°×7.3°
Working Distance*1 [mm]	∞-100	∞-100	∞-100	∞-200	∞-400	∞-900
Operation of focus	Manual	Manual	Manual	Manual	Manual	Manual
Operation of iris	Manual	Manual	Manual	Manual	Manual	Manual
Filter thread [mm]	M49×0.75	M49×0.75	M49×0.75	M49×0.75	M49×0.75	M49×0.75
Mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
Weight (approx.) [g]	290	280	310	180	235	300
Sensor size (std.)*2	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)
Sensor size (max.)*3	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)	1"(9.1μm)
TV distortion [%]	0.86	0.79	0.36	0.18	0.20	0.01
Dimension [mm]	ø51×68.5	ø51×70.5	ø51×75.5	ø51×48.5	ø51×55.5	ø51×76

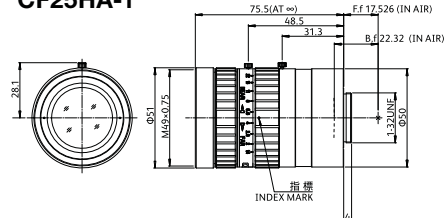
CF12.5HA-1



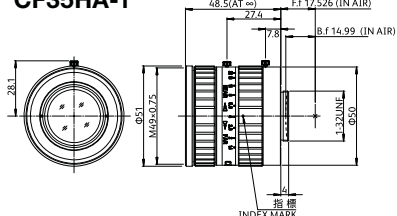
CF16HA-1



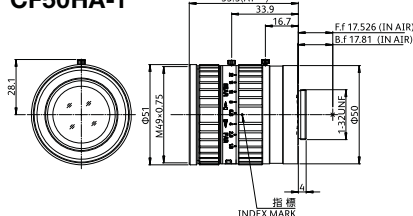
CF25HA-1



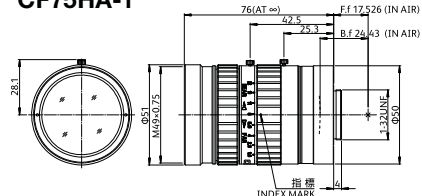
CF35HA-1



CF50HA-1



CF75HA-1



*1 From front of lens barrel. *2 Sensor size(std.): Ideal size to maximize the target resolution.

*3 Sensor size(max.): Adaptable sensor size varies depending on the model. Please check the amount of light and resolution on the edges pertaining to your particular application.

CF-HA series

CF12.5HA-1

Working Distance [mm]	Optical Magnification	Extension Tube [mm]	Field of View [mm]					
			1"		2/3"		1/2"	
			H	V	H	V	H	V
1000	0.013x	-	1024.8	769.8	705.4	528.0	511.9	383.3
950	0.013x	-	974.8	732.2	670.9	502.2	486.9	364.6
900	0.014x	-	924.8	694.6	636.4	476.4	461.8	345.8
850	0.015x	-	874.8	657.0	601.9	450.5	436.8	327.1
800	0.016x	-	824.8	619.4	567.5	424.7	411.8	308.3
750	0.017x	-	774.8	581.8	533.0	398.9	386.7	289.6
700	0.018x	-	724.8	544.1	498.5	373.1	361.7	270.8
650	0.019x	-	674.8	506.5	464.1	347.3	336.7	252.1
600	0.021x	-	624.8	468.9	429.6	321.5	311.7	233.3
550	0.022x	-	574.8	431.3	395.1	295.6	286.6	214.6
500	0.025x	-	524.8	393.7	360.6	269.8	261.6	195.8
450	0.027x	-	474.8	356.1	326.2	244.0	236.6	177.1
400	0.030x	-	424.8	318.5	291.7	218.2	211.5	158.3
350	0.034x	-	374.8	280.9	257.2	192.4	186.5	139.6
300	0.040x	-	324.8	243.2	222.8	166.6	161.5	120.8
250	0.047x	-	274.7	205.6	188.3	140.7	136.4	102.1
200	0.058x	-	224.7	168.0	153.8	114.9	111.4	83.4
150	0.075x	-	174.7	130.4	119.3	89.1	86.4	64.6
100	0.105x	-	124.7	92.8	84.9	63.3	61.3	45.9

CF16HA-1

Working Distance [mm]	Optical Magnification	Extension Tube [mm]	Field of View [mm]					
			1"		2/3"		1/2"	
			H	V	H	V	H	V
1000	0.016x	-	806.4	606.5	556.0	416.9	404.3	303.1
950	0.017x	-	767.4	577.1	529.1	396.7	384.7	288.4
900	0.018x	-	728.4	547.7	502.1	376.5	365.1	273.7
850	0.019x	-	689.4	518.3	475.2	356.3	345.5	259.0
800	0.020x	-	650.4	488.9	448.2	336.0	325.8	244.3
750	0.021x	-	611.4	459.6	421.3	315.8	306.2	229.6
700	0.022x	-	572.4	430.2	394.3	295.6	286.6	214.8
650	0.024x	-	533.4	400.8	367.4	275.4	267.0	200.1
600	0.026x	-	494.3	371.4	340.4	255.2	247.4	185.4
550	0.028x	-	455.3	342.0	313.5	234.9	227.8	170.7
500	0.031x	-	416.3	312.6	286.5	214.7	208.2	156.0
450	0.034x	-	377.3	283.2	259.6	194.5	188.6	141.3
400	0.038x	-	338.3	253.8	232.6	174.3	169.0	126.6
350	0.043x	-	299.3	224.4	205.7	154.0	149.4	111.9
300	0.049x	-	260.3	195.1	178.7	133.8	129.7	97.2
250	0.058x	-	221.2	165.7	151.8	113.6	110.1	82.5
200	0.071x	-	182.2	136.3	124.8	93.4	90.5	67.8
150	0.091x	-	143.2	106.9	97.9	73.1	70.9	53.1
100	0.126x	-	104.2	77.5	70.9	52.9	51.3	38.4

CF25HA-1

Working Distance [mm]	Optical Magnification	Extension Tube [mm]	Field of View [mm]					
			1"		2/3"		1/2"	
			H	V	H	V	H	V
1000	0.023x	-	551.0	413.0	378.4	283.4	274.8	205.9
950	0.025x	-	524.2	392.9	360.0	269.6	261.4	195.9
900	0.026x	-	497.5	372.9	341.6	255.9	248.1	185.9
850	0.027x	-	470.8	352.8	323.2	242.1	234.7	175.9
800	0.029x	-	444.1	332.7	304.9	228.3	221.4	165.9
750	0.031x	-	417.3	312.7	286.5	214.5	208.0	155.9
700	0.033x	-	390.6	292.6	268.1	200.8	194.7	145.8
650	0.035x	-	363.9	272.6	249.7	187.0	181.3	135.8
600	0.038x	-	337.2	252.5	231.3	173.2	167.9	125.8
550	0.042x	-	310.4	232.4	212.9	159.4	154.6	115.8
500	0.045x	-	283.7	212.4	194.6	145.7	141.2	105.8
450	0.050x	-	257.0	192.3	176.2	131.9	127.9	95.8
400	0.056x	-	230.2	172.3	157.8	118.1	114.5	85.8
350	0.063x	-	203.5	152.2	139.4	104.3	101.1	75.8
300	0.073x	-	176.8	132.1	121.0	90.5	87.8	65.7
250	0.086x	-	150.0	112.1	102.6	76.8	74.4	55.7
200	0.105x	-	123.3	92.0	84.2	63.0	61.1	45.7
150	0.135x	-	96.5	71.9	65.9	49.2	47.7	35.7
100	0.187x	-	69.8	51.9	47.5	35.4	34.3	25.7

CF35HA-1

Working Distance [mm]	Optical Magnification	Extension Tube [mm]	Field of View [mm]					
			1"		2/3"		1/2"	
			H	V	H	V	H	V
1000	0.035x	-	362.6	271.9	249.2	186.9	181.2	135.9
950	0.037x	-	344.7	258.4	236.9	177.6	172.2	129.2
900	0.039x	-	326.9	245.0	224.6	168.4	163.3	122.5
850	0.041x	-	309.0	231.6	212.3	159.2	154.3	115.7
800	0.044x	-	291.1	218.2	200.0	149.9	145.4	109.0
750	0.047x	-	273.3	204.8	187.7	140.7	136.4	102.3
700	0.050x	-	255.4	191.4	175.4	131.5	127.5	95.6
650	0.054x	-	237.5	177.9	163.1	122.2	118.5	88.9
600	0.058x	-	219.7	164.5	150.8	113.0	109.6	82.2
550	0.064x	-	201.8	151.1	138.5	103.8	100.6	75.5
500	0.070x	-	183.9	137.7	126.2	94.6	91.7	68.7
450	0.077x	-	166.0	124.3	113.9	85.3	82.7	62.0
400	0.087x	-	148.1	110.8	101.6	76.1	73.8	55.3
350	0.099x	-	130.2	97.4	89.3	66.9	64.8	48.6
300	0.115x	-	112.3	84.0	76.9	57.6	55.9	41.9
250	0.137x	-	94.4	70.6	64.6	48.4	46.9	35.2
200	0.169x	-	76.5	57.1	52.3	39.2	38.0	28.4
150	0.221x	2	58.5	43.7	40.0	29.9	29.0	21.7
100	0.320x	10	40.5	30.2	27.6	20.7	20.0	15.0

CF50HA-1

Working Distance [mm]	Optical Magnification	Extension Tube [mm]	Field of View [mm]					
			1"		2/3"		1/2"	
			H	V	H	V	H	V
1500	0.034x	-	371.4	278.7	255.5	191.6	185.8	139.4
1450	0.036x	-	359.1	269.4	247.0	185.3	179.7	134.8
1400	0.037x	-	346.8	260.2	238.5	178.9	173.5	130.1
1350	0.038x	-	334.4	250.9	230.0	172.5	167.3	125.5
1300	0.040x	-	322.1	241.6	221.5	166.1	161.1	120.8
1250	0.041x	-	309.7	232.4	213.0	159.8	154.9	116.2
1200	0.043x	-	297.4	223.1	204.5	153.4	148.7	111.6
1150	0.045x	-	285.1	213.8	196.0	147.0	142.6	106.9
1100	0.047x	-	272.7	204.6	187.5	140.6	136.4	102.3
1050	0.049x	-	260.4	195.3	179.0	134.3	130.2	97.6
1000	0.052x	-	248.0	186.0	170.5	127.9	124.0	93.0
950	0.054x	-	235.7	176.7	162.0	121.5	117.8	88.4
900	0.057x	-	223.4	167.5	153.5	115.1	111.6	83.7
850	0.061x	-	211.0	158.2	145.0	108.7	105.4	79.1
800	0.064x	-	198.7	148.9	136.5	102.4	99.3	74.4
750	0.069x	-	186.3	139.7	128.0	96.0	93.1	69.8
700	0.074x	-	174.0	130.4	119.5	89.6	86.9	65.2
650	0.079x	-	161.6	121.1	111.0	83.2	80.7	60.5
600	0.086x	-	149.3	111.9	102.5	76.9	74.5	55.9
550	0.094x	-	136.9	102.6	94.0	70.5	68.3	51.2
500	0.103x	-	124.6	93.3	85.5	64.1	62.2	46.6
450	0.114x	-	112.2	84.0	77.0	57.7	56.0	42.0
400	0.129x	-	99.8	74.8	68.5	51.3	49.8	37.3
350	0.147x	1	87.5	65.5	60.0	45.0	43.6	32.7
300	0.171x	5	75.1	56.2	51.5	38.6	37.4	28.0
250	0.205x	5	62.7	46.9	43.0	32.2	31.2	23.4
200	0.256x	10	50.3	37.6	34.5	25.8	25.0	18.8
150	0.340x	15	37.9	28.3	25.9	19.4	18.8	14.1
100	0.507x	20	25.4	19.0	17.4	13.0	12.6	9.5

<Sensor size>

1.1"	14.1X10.6
1"	12.8X9.6
1/1.2"	10.7X8.0
2/3"	8.8X6.6
1/2"	6.4X4.8
1/3"	4.8X3.6

[mm]

* This data shows simulation value.

* When attached with a extension tube, the optical performance of the lenses is not covered under warranty.

CF75HA-1

Working Distance	Optical Magnification	Extension Tube	Field of View [mm]						
			1"		2/3"		1/2"		
			H	V	H	V	H	V	
[mm]		[mm]							
2000	0.038x	-	335.8	251.8	230.8	173.1	167.9	125.9	
1950	0.039x	-	327.3	245.4	225.0	168.7	163.6	122.7	
1900	0.040x	-	318.8	239.0	219.1	164.3	159.3	119.5	
1850	0.041x	-	310.2	232.6	213.2	159.9	155.1	116.3	
1800	0.042x	-	301.7	226.2	207.4	155.5	150.8	113.1	
1750	0.044x	-	293.2	219.8	201.5	151.1	146.5	109.9	
1700	0.045x	-	284.6	213.4	195.6	146.7	142.3	106.7	
1650	0.046x	-	276.1	207.0	189.8	142.3	138.0	103.5	
1600	0.048x	-	267.6	200.6	183.9	137.9	133.7	100.3	
1550	0.049x	-	259.0	194.2	178.0	133.5	129.5	97.1	
1500	0.051x	-	250.5	187.8	172.2	129.1	125.2	93.9	
1450	0.053x	-	242.0	181.4	166.3	124.7	120.9	90.7	
1400	0.055x	-	233.4	175.0	160.4	120.3	116.7	87.5	
1350	0.057x	-	224.9	168.6	154.6	115.9	112.4	84.3	
1300	0.059x	-	216.4	162.2	148.7	111.5	108.1	81.1	
1250	0.062x	-	207.8	155.8	142.8	107.1	103.9	77.9	
1200	0.064x	-	199.3	149.4	137.0	102.7	99.6	74.7	
1150	0.067x	-	190.8	143.0	131.1	98.3	95.3	71.5	
1100	0.070x	-	182.2	136.6	125.2	93.9	91.1	68.3	
1050	0.074x	-	173.7	130.2	119.4	89.5	86.8	65.1	
1000	0.078x	-	165.2	123.8	113.5	85.1	82.5	61.9	
950	0.082x	-	156.6	117.4	107.6	80.7	78.3	58.7	
900	0.087x	-	148.1	111.0	101.7	76.3	74.0	55.5	
850	0.092x	0.5	139.6	104.6	95.9	71.9	69.7	52.3	
800	0.098x	1	131.0	98.2	90.0	67.5	65.4	49.1	
750	0.105x	1.5	122.5	91.8	84.1	63.1	61.2	45.9	
700	0.112x	2	113.9	85.4	78.3	58.7	56.9	42.7	
650	0.122x	5	105.4	79.0	72.4	54.3	52.6	39.5	
600	0.132x	5	96.9	72.6	66.5	49.9	48.4	36.3	
550	0.145x	5	88.3	66.2	60.7	45.5	44.1	33.1	
500	0.161x	10	79.8	59.8	54.8	41.1	39.8	29.9	
450	0.180x	10	71.2	53.4	48.9	36.7	35.6	26.7	
400	0.205x	10	62.7	47.0	43.1	32.3	31.3	23.5	
350	0.237x	15	54.1	40.6	37.2	27.9	27.0	20.3	
300	0.281x	15	45.6	34.2	31.3	23.5	22.8	17.1	
250	0.346x	20	37.0	27.8	25.4	19.1	18.5	13.9	
200	0.450x	30	28.5	21.3	19.6	14.7	14.2	10.7	
150	0.644x	45	19.9	14.9	13.7	10.3	9.9	7.5	