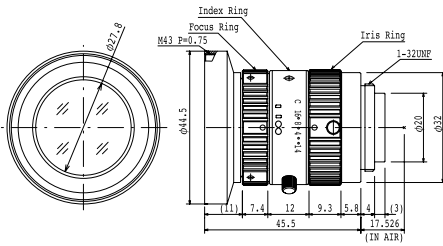


- Captures full resolution of megapixel cameras
- Low distortion (Less than 1.0%)
- Locking set screws for focus and iris

- High contrast & sharp picture in all areas of the screen
- Compact design-Diameter 33.5mm
(H0514-MP : 44.5mm)

H0514-MP2



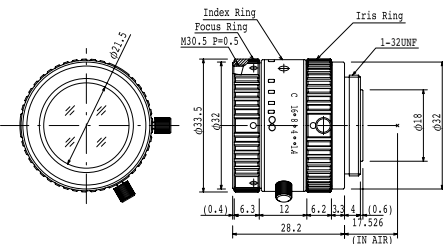
Focal Length	5mm	
Max. Aperture Ratio	1:1.4	
Max. Image Format	6.4mm x 4.8mm (φ8mm)	
Operation Range	Iris	F1.4 - F16C
	Focus	0.1m - 0.9m
Control	Iris	Manual
	Focus	Manual
Object Dimension at M.O.D.	15.0(H)cm x 11.1(V)cm 1/2"	
Angle of View	D	76.7°
		62.3°
	H	1/2" 65.5°
V	51.4°	
Operating Temperature	-10°C ~ +50°C	

Distortion	1/2"	-0.48% (y=4.0)	1/3"	-2.26% (y=3.0)
BackFocal Length	10.8mm (WD=900mm)			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M43 P=0.75mm			
Dimensions	φ 44.5mm x 45.5mm			
Weight	102g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			1/2"		1/3"	
			H	V	H	V
900	0.006X	-	1179.8	882.3	882.3	657.2
850	0.006X	-	1115.4	834.2	834.2	621.3
800	0.006X	-	1051.0	786.0	786.0	585.4
750	0.007X	-	986.6	737.8	737.8	549.5
700	0.007X	-	922.3	689.6	689.6	513.6
650	0.008X	-	857.9	641.4	641.4	477.7
600	0.008X	-	793.5	593.2	593.2	441.8
550	0.009X	-	729.1	545.0	545.0	405.9
500	0.010X	-	664.7	496.9	496.9	370.0
450	0.011X	-	600.3	448.7	448.7	334.1
400	0.012X	-	535.9	400.5	400.5	298.2
350	0.014X	-	471.5	352.3	352.3	262.3
300	0.016X	-	407.1	304.1	304.1	226.4
250	0.019X	-	342.7	255.9	255.9	190.5
200	0.024X	-	278.4	207.8	207.8	154.6
150	0.031X	-	214.0	159.6	159.6	118.7
100	0.044X	-	149.6	111.4	111.4	82.8

Field of View = CCD Size / Optical Magnification

M0814-MP2



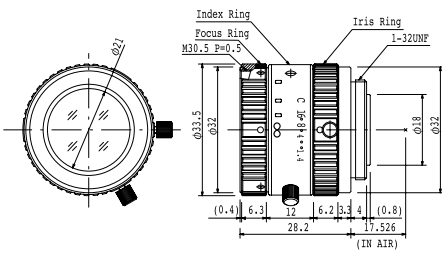
Focal Length	8mm	
Max. Aperture Ratio	1:1.4	
Max. Image Format	8.8mm x 6.6mm (φ11mm)	
Operation Range	Iris	F1.4 - F16C
	Focus	0.1m - Inf.
Control	Iris	Manual
	Focus	Manual
Object Dimension at M.O.D.	12.1(H)cm x 9.0(V)cm 2/3"	
Angle of View	D	67.1°
		51.9°
	H	2/3" 56.3°
V	43.7°	
Operating Temperature	-10°C ~ +50°C	

Distortion	2/3"	-0.1% (y=5.5)	1/2"	-1.1% (y=4.0)
BackFocal Length	13.1mm (Inf)			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M30.5 P=0.5mm			
Dimensions	φ 33.5mm x 28.2mm			
Weight	63g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.009X	-	976.8	731.5	709.1	530.1
850	0.010X	-	923.3	691.4	670.2	501.0
800	0.010X	-	869.8	651.3	631.4	471.9
750	0.011X	-	816.3	611.2	592.5	442.8
700	0.012X	-	762.8	571.1	553.6	413.8
650	0.013X	-	709.3	531.0	514.7	384.7
600	0.014X	-	655.8	490.9	475.8	355.6
550	0.015X	-	602.3	450.8	437.0	326.5
500	0.016X	-	548.8	410.7	398.1	297.5
450	0.018X	-	495.3	370.6	359.2	268.4
400	0.020X	-	441.8	330.5	320.3	239.3
350	0.023X	-	388.3	290.4	281.4	210.2
300	0.027X	-	334.8	250.3	242.6	181.2
250	0.032X	-	281.2	210.2	203.7	152.1
200	0.039X	-	227.7	170.0	164.8	123.0
150	0.052X	-	174.2	129.9	125.9	93.9
100	0.075X	-	120.7	89.8	87.0	64.9

Field of View = CCD Size / Optical Magnification

M1214-MP2



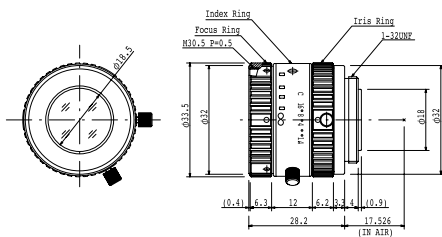
Focal Length	12mm		
Max. Aperture Ratio	1:1.4		
Max. Image Format	8.8mm x 6.6mm (φ11mm)		
Operation Range	Iris	F1.4 - F16C	
	Focus	0.15m - Inf.	
Control	Iris	Manual	
	Focus	Manual	
Object Dimension at M.O.D.	12.1(H)cm x 9.0(V)cm 2/3"		
Angle of View	D	49.2°	37.0°
		30.8°	
	H	2/3"	1/2"
V			
Operating Temperature	-10° C ~ +50° C		

Distortion	2/3"	-0.1% (y=5.5)	1/2"	-0.35% (y=4.0)
Back Focal Length	13.1mm (Inf)			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M30.5 P=0.5mm			
Dimensions	φ 33.5mm x 28.2mm			
Weight	62g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.013X	-	672.7	504.0	488.7	366.0
850	0.014X	-	635.9	476.4	461.9	345.9
800	0.015X	-	599.1	448.9	435.2	325.9
750	0.016X	-	562.4	421.3	408.4	305.9
700	0.017X	-	525.6	393.7	381.7	285.8
650	0.018X	-	488.8	366.1	355.0	265.8
600	0.020X	-	452.1	338.5	328.2	245.7
550	0.021X	-	415.3	311.0	301.5	225.7
500	0.023X	-	378.5	283.4	274.7	205.7
450	0.026X	-	341.7	255.8	248.0	185.6
400	0.029X	-	305.0	228.2	221.2	165.6
350	0.033X	-	268.2	200.6	194.5	145.6
300	0.038X	-	231.4	173.0	167.7	125.5
250	0.046X	-	194.7	145.5	141.0	105.5
200	0.056X	-	157.9	117.9	114.3	85.4
150	0.074X	-	121.1	90.3	87.5	65.4
100	0.106X	0.5	84.3	62.7	60.8	45.4

Field of View = CCD Size / Optical Magnification

M1614-MP2



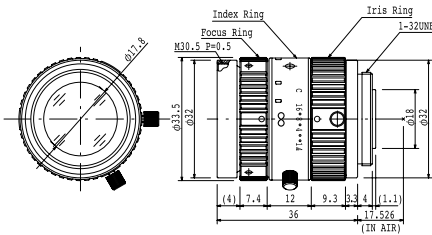
Focal Length	16mm		
Max. Aperture Ratio	1:1.4		
Max. Image Format	8.8mm x 6.6mm (φ11mm)		
Operation Range	Iris	F1.4 - F16C	
	Focus	0.3m - Inf.	
Control	Iris	Manual	
	Focus	Manual	
Object Dimension at M.O.D.	17.2(H)cm x 12.9(V)cm 2/3"		
Angle of View	D	38.0°	28.2°
		22.7°	
	H	2/3"	1/2"
V			
Operating Temperature	-10° C ~ +50° C		

Distortion	2/3"	-0.1% (y=5.5)	1/2"	-0.3% (y=4.0)
Back Focal Length	13.1mm (Inf)			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M30.5 P=0.5mm			
Dimensions	φ 33.5mm x 28.2mm			
Weight	60g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.018X	-	503.2	376.8	365.4	273.7
850	0.019X	-	475.6	356.2	345.3	258.6
800	0.020X	-	448.0	335.5	325.3	243.6
750	0.021X	-	420.4	314.8	305.2	228.6
700	0.023X	-	392.8	294.1	285.2	213.6
650	0.024X	-	365.2	273.4	265.1	198.5
600	0.026X	-	337.6	252.8	245.1	183.5
550	0.029X	-	310.0	232.1	225.0	168.5
500	0.031X	-	282.5	211.4	204.9	153.5
450	0.035X	-	254.9	190.7	184.9	138.4
400	0.039X	-	227.3	170.0	164.8	123.4
350	0.044X	-	199.7	149.4	144.8	108.4
300	0.052X	-	172.1	128.7	124.7	93.4
250	0.061X	-	144.5	108.0	104.7	78.3
200	0.076X	-	116.9	87.3	84.6	63.3
150	0.100X	0.5	89.3	66.6	64.6	48.3
100	0.145X	1.0	61.7	45.9	44.5	33.2

Field of View = CCD Size / Optical Magnification

M2514-MP2



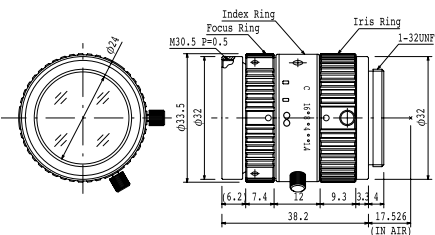
Focal Length	25mm	
Max. Aperture Ratio	1:1.4	
Max. Image Format	8.8mm x 6.6mm (φ11mm)	
Operation Range	Iris	F1.4 - F16C
	Focus	0.3m - Inf.
Control	Iris	Manual
	Focus	Manual
Object Dimension at M.O.D.	10.6(H)cm x 7.9(V)cm 2/3"	
Angle of View	D	24.9°
		18.2°
	H	2/3" 20.0°
V	15.1°	11.0°
Operating Temperature	-10°C ~ +50°C	

Distortion	2/3"	-0.3% (y=5.5)	1/2"	-0.1% (y=4.0)
Back Focal Length	13.1mm (Inf)			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M30.5 P=0.5mm			
Dimensions	φ 33.5mm x 36.0mm			
Weight	71g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.028X	-	317.5	237.7	230.5	172.7
850	0.029X	-	299.9	224.5	217.7	163.1
800	0.031X	-	282.3	211.3	204.8	153.5
750	0.033X	-	264.6	198.1	192.0	143.9
700	0.036X	-	247.0	184.9	179.2	134.3
650	0.039X	-	229.4	171.6	166.4	124.7
600	0.042X	-	211.8	158.4	153.6	115.1
550	0.046X	-	194.1	145.2	140.8	105.5
500	0.050X	-	176.5	132.0	128.0	95.9
450	0.056X	-	158.9	118.8	115.2	86.3
400	0.063X	-	141.2	105.6	102.4	76.7
350	0.072X	-	123.6	92.4	89.6	67.1
300	0.084X	-	106.0	79.2	76.8	57.5
250	0.100X	-	88.3	66.0	63.9	47.9
200	0.126X	-	70.7	52.7	51.1	38.3
150	0.168X	-	53.0	39.5	38.3	28.7
100	0.253X	1.5	35.3	26.3	25.5	19.0

Field of View = CCD Size / Optical Magnification

M3514-MP



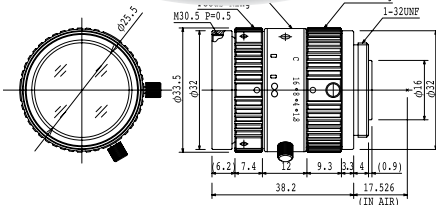
Focal Length	35mm	
Max. Aperture Ratio	1:1.4	
Max. Image Format	8.8mm x 6.6mm (φ11mm)	
Operation Range	Iris	F1.4 - F16C
	Focus	0.3m - Inf.
Control	Iris	Manual
	Focus	Manual
Object Dimension at M.O.D.	8.1(H)cm x 6(V)cm 2/3"	
Angle of View	D	17.3°
		12.6°
	H	2/3" 13.9°
V	10.4°	7.6°
Operating Temperature	-10°C ~ +50°C	

Distortion	2/3"	-0.8% (y=5.5)	1/2"	-0.4% (y=4.0)
Back Focal Length	17.1mm (WD=400mm)			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M30.5 P=0.5mm			
Dimensions	φ 33.5mm x 38.2mm			
Weight	87g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.037	-	236.2	176.9	171.5	128.6
850	0.040	-	223.2	167.2	162.1	121.5
800	0.042	-	210.3	157.5	152.7	114.5
750	0.045	-	197.3	147.8	143.3	107.4
700	0.048	-	184.3	138.1	133.9	100.3
650	0.052	-	171.4	128.4	124.5	93.3
600	0.056	-	158.4	118.6	115.0	86.2
550	0.061	-	145.5	108.9	105.6	79.1
500	0.067	-	132.5	99.2	96.2	72.1
450	0.074	-	119.6	89.5	86.8	65.0
400	0.083	-	106.6	79.8	77.4	58.0
350	0.094	-	93.7	70.1	67.9	50.9
300	0.110	-	80.7	60.4	58.5	43.8
250	0.131	1	67.7	50.6	49.1	36.8
200	0.162	2	54.7	40.9	39.7	29.7
150	0.213	5	41.8	31.2	30.2	22.6
100	0.310	7	28.7	21.4	20.8	15.5

Field of View = CCD Size / Optical Magnification

M5018-MP2



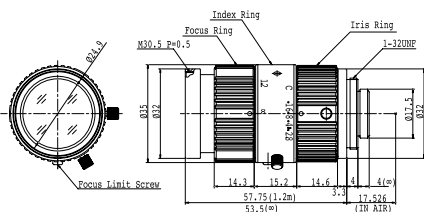
Focal Length	50mm		
Max. Aperture Ratio	1:1.8		
Max. Image Format	8.8mm x 6.6mm ($\phi 11$ mm)		
Operation Range	Iris	F1.8 - F16C	
	Focus	0.5m - Inf.	
Control	Iris	Manual	
	Focus	Manual	
Object Dimension at M.O.D.	8.7(H)cm x 6.5(V)cm 2/3"		
Angle of View	D	13.1°	9.5°
	H	2/3" 10.5°	1/2" 7.6°
	V	7.9°	5.7°
Operating Temperature	-10° C ~ +50° C		

Distortion	2/3" -0.3% (y=5.5)	1/2" -0.2% (y=4.0)
Back Focal Length	13.1mm (Inf)	
Flange Back Length	17.526mm	
Mount	C-Mount	
Filter Size	M30.5 P=0.5mm	
Dimensions	$\phi 33.5$ mm x 38.2mm	
Weight	85g	

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.055X	-	160.8	120.4	116.7	87.5
850	0.058X	-	151.6	113.5	110.1	82.5
800	0.062X	-	142.4	106.6	103.4	77.5
750	0.066X	-	133.2	99.7	96.7	72.5
700	0.071X	-	124.0	92.9	90.0	67.5
650	0.077X	-	114.8	86.0	83.4	62.5
600	0.084X	-	105.6	79.1	76.7	57.5
550	0.092X	-	96.5	72.2	70.1	52.5
500	0.101X	-	87.3	65.3	63.3	47.5
450	0.113X	0.5	78.1	58.4	56.7	42.5
400	0.128X	1.5	68.9	51.6	50.0	37.5
350	0.148X	2.5	59.7	44.7	43.3	32.5
300	0.175X	3.5	50.5	37.8	36.6	27.4
250	0.214X	5.5	41.3	30.9	30.0	22.4
200	0.276X	8.5	32.1	24.0	23.3	17.4
150	0.387X	14.0	22.9	17.1	16.6	12.4
100	0.647X	26.5	13.6	10.2	9.9	7.4

Field of View = CCD Size / Optical Magnification

M7528-MP



Focal Length	75mm		
Max. Aperture Ratio	1:2.8		
Max. Image Format	8.8mm x 6.6mm ($\phi 11$ mm)		
Operation Range	Iris	F2.8 - F16C	
	Focus	0.3m - Inf. (※)	
Control	Iris	Manual	
	Focus	Manual	
Object Dimension at M.O.D.	4.1(H)cm x 3.1(V)cm 2/3"		
Angle of View	D	8.5°	6.2°
	H	2/3" 6.8°	1/2" 5°
	V	5.1°	3.7°
Operating Temperature	-10° C ~ +50° C		

Distortion	2/3" -0.4% (y=5.5)	1/2" -0.2% (y=4.0)
Back Focal Length	21.5mm (WD=400mm)	
Flange Back Length	17.526mm	
Mount	C-Mount	
Filter Size	M30.5 P=0.5mm	
Dimensions	$\phi 35$ mm x 57.75mm	
Weight	113g	

※ Factory setting is 0.3-1.2m. Focus can be adjusted to infinity by removing "Focus Limit Screw".

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.077	-	113.8	85.4	82.8	62.1
850	0.082	-	107.8	80.8	78.4	58.8
800	0.086	-	101.7	76.3	74.0	55.5
750	0.092	-	95.7	71.8	69.6	52.2
700	0.098	-	89.6	67.2	65.2	48.9
650	0.105	-	83.6	62.7	60.8	45.6
600	0.114	-	77.6	58.1	56.4	42.3
550	0.123	-	71.5	53.6	52.0	39.0
500	0.135	-	65.5	49.1	47.6	35.7
450	0.148	-	59.4	44.5	43.2	32.4
400	0.165	-	53.4	40.0	38.8	29.1
350	0.187	-	47.3	35.4	34.4	25.8
300	0.214	-	41.3	30.9	30.0	22.5
250	0.251	5	35.2	26.4	25.6	19.1
200	0.304	7	29.2	21.8	21.2	15.8
150	0.384	13	23.1	17.3	16.8	12.5
100	0.522	23	17.1	12.7	12.3	9.2

Field of View = CCD Size / Optical Magnification