

# 1" 2 MEGAPIXEL LENS

MACHINE VISION LENS

C-MOUNT  
1" 2MP

• 8, 12, 16, 25, 50mm. 5 Lens Series • Compatible with 1" (φ 16mm) Large Format Sensor • High Resolution 2 Megapixel

NEW

## V0814-MP



Focal Length		8mm					
Max. Aperture Ratio		1:1.4					
Max. Image Format		12.8mm x 9.6mm ( ϕ 16mm)					
Operation Range	Iris	F1.4 - F16.0					
	Focus	0.1m - Inf.					
Control	Iris	Manual					
	Focus	Manual					
Object Dimension at M.O.D.		19.5cm x 14.2cm 1"					
Angle of View	D	1"	92.4°	1/1.2"	82.4°	2/3"	70.7°
	H		79.7°		43.9°		58.3°
	V		63.0°		47.9°		44.7°
Operating Temperature		-10°C ~ +50°C					

Distortion	1"	-7.07%(y=8.0)	1/1.2" -7.30%(y=6.7)	2/3" -6.03%(y=5.5)
Back Focal Length	11.65mm			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M55.0 P=0.75mm			
Dimensions	φ 57mm x 58mm			
Weight	250g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)					
			1"		1/1.2"		2/3"	
			H	V	H	V	H	V
1000	0.007	-	1,947.9	1,423.4	1,712.1	1,075.8	1,333.3	1,000.0
950	0.007	-	1,850.5	1,352.2	1,637.7	1,029.0	1,275.4	956.5
900	0.007	-	1,753.1	1,281.1	1,548.0	972.6	1,205.5	904.1
850	0.008	-	1,655.7	1,209.9	1,467.5	922.1	1,142.9	857.1
800	0.008	-	1,558.3	1,138.7	1,378.1	865.9	1,073.2	804.9
750	0.009	-	1,460.9	1,067.6	1,284.1	806.8	1,000.0	750.0
700	0.009	-	1,363.5	996.4	1,202.1	755.3	936.2	702.1
650	0.010	-	1,266.1	925.2	1,118.8	703.0	871.3	653.5
600	0.011	-	1,168.7	854.0	1,027.3	645.5	800.0	600.0
550	0.012	-	1,071.4	782.9	949.6	596.6	739.5	554.6
500	0.013	-	974.0	711.7	862.6	542.0	671.8	503.8
450	0.015	-	876.6	640.5	774.0	486.3	602.7	452.1
400	0.016	-	779.2	569.4	689.0	432.9	536.6	402.4
350	0.019	-	681.8	498.2	601.1	377.7	468.1	351.1
300	0.022	-	584.4	427.0	516.0	324.2	401.8	301.4
250	0.026	-	487.0	355.9	429.7	270.0	334.6	251.0
200	0.033	-	389.6	284.7	343.5	215.8	267.5	200.6
150	0.044	-	292.2	213.5	258.0	162.1	200.9	150.7
100	0.066	-	194.8	142.3	170.0	103.0	129.6	95.4

Fiel of View = CCD Size / Optical Magnification

NEW

## V1214-MP



Focal Length		12.5mm					
Max. Aperture Ratio		1:1.4					
Max. Image Format		12.8mm x 9.6mm ( ϕ 16mm)					
Operation Range	Iris	F1.4 - F16.0					
	Focus	0.1m - Inf.					
Control	Iris	Manual					
	Focus	Manual					
Object Dimension at M.O.D.		11.9cm x 8.8cm 1"					
Angle of View	D	1"	67.6°	1/1.2"	58.0°	2/3"	48.4°
	H		56.5°		49.6°		39.1°
	V		42.5°		31.7°		29.5°
Operating Temperature		-10°C ~ +50°C					

Distortion	1"	-5.93%(y=8.0)	1/1.2" -4.9%(y=6.7)	2/3" -3.63%(y=5.5)
Back Focal Length	12.55mm			
Flange Back Length	17.526mm			
Mount	C-Mount			
Filter Size	M35.5 P=0.5mm			
Dimensions	φ 38mm x 51.5mm			
Weight	175g			

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)					
			1"		1/1.2"		2/3"	
			H	V	H	V	H	V
1000	0.011	-	1,192.7	877.6	1,056.1	663.6	822.4	616.8
950	0.011	-	1,133.1	833.7	1,000.0	628.3	778.8	584.1
900	0.012	-	1,073.4	789.8	949.6	596.6	739.5	554.6
850	0.013	-	1,013.8	746.0	896.8	563.5	698.4	523.8
800	0.013	-	954.2	702.1	843.3	529.9	656.7	492.5
750	0.014	-	894.5	658.2	790.2	496.5	615.4	461.5
700	0.015	-	834.9	614.3	738.6	464.1	575.2	431.4
650	0.017	-	775.3	570.4	684.9	430.3	533.3	400.0
600	0.018	-	715.6	526.6	631.3	396.7	491.6	368.7
550	0.020	-	656.0	482.7	579.5	364.1	451.3	338.5
500	0.022	-	596.4	438.8	525.6	330.2	409.3	307.0
450	0.024	-	536.7	394.9	474.8	298.3	369.8	277.3
400	0.027	-	477.1	351.0	421.6	264.9	328.4	246.3
350	0.031	-	417.5	307.2	368.1	231.3	286.6	215.0
300	0.036	-	357.0	262.7	314.8	197.8	245.1	183.8
250	0.043	-	298.2	219.4	263.4	165.5	205.1	153.9
200	0.054	-	238.5	175.5	210.4	132.2	163.9	122.9
150	0.072	-	178.9	131.6	158.0	99.3	123.1	92.3
100	0.107	-	119.3	87.8	104.3	64.1	80.1	59.5

Fiel of View = CCD Size / Optical Magnification

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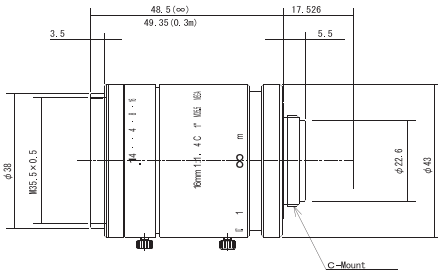
## V1614-MP

1"

2MP

FIX

MANUAL



Focal Length	16mm
Max. Aperture Ratio	1:1.4
Max. Image Format	12.8mm x 9.6mm (φ 16mm)
Operation Range	Iris F1.4 - F16.0
Focus	0.3m - Inf.
Control	Iris Manual
Focus	Manual
Object Dimension at M.O.D.	25.2cm x 18.7cm 1"
Angle of View	D 54.4° 46.2° 38.3° H 1" 44.3° 1/1.2" 39.3° 2/3" 30.3° V 33.6° 24.9° 23.2°
Operating Temperature	-10°C ~ +50°C

Distortion	1" -3.84%(y=8.0) 1/1.2" -3.0%(y=6.7) 2/3" -2.24%(y=5.5)
Back Focal Length	12.14mm
Flange Back Length	17.526mm
Mount	C-Mount
Filter Size	M 35.5 P=0.5mm
Dimensions	φ 38mm x 48.5mm
Weight	170g

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)					
			1"		1/1.2"		2/3"	
			H	V	H	V	H	V
1000	0.015	-	840.4	622.5	743.4	467.1	579.0	434.2
950	0.016	-	798.4	591.3	706.3	443.8	550.0	412.5
900	0.017	-	756.4	560.2	668.6	420.1	520.7	390.5
850	0.018	-	714.3	529.1	631.3	396.7	491.6	368.7
800	0.019	-	672.3	498.0	594.7	373.7	463.2	347.4
750	0.020	-	630.3	466.9	556.7	349.8	433.5	325.1
700	0.022	-	588.3	435.7	518.4	325.7	403.7	302.8
650	0.023	-	546.3	404.6	482.9	303.4	376.1	282.1
600	0.025	-	504.2	373.5	444.9	279.5	346.5	259.8
550	0.028	-	462.2	342.4	407.9	256.3	317.7	238.3
500	0.031	-	420.2	311.2	370.5	232.8	288.5	216.4
450	0.034	-	378.2	280.1	334.3	210.1	260.4	195.3
400	0.038	-	336.2	209.3	296.6	186.4	231.0	173.2
350	0.044	-	294.1	217.9	259.8	163.2	202.3	151.7
300	0.051	-	252.1	186.7	221.2	137.0	170.7	127.2
250	0.070	1.0	182.4	136.8	161.0	101.1	125.4	94.0
200	0.090	1.5	142.9	107.3	126.3	79.3	98.3	73.7
150	0.124	2.0	103.4	77.6	91.4	57.4	71.1	53.4
100	0.200	3.0	63.9	48.0	56.4	35.5	44.0	33.0

Fiel of View = CCD Size / Optical Magnification

NEW

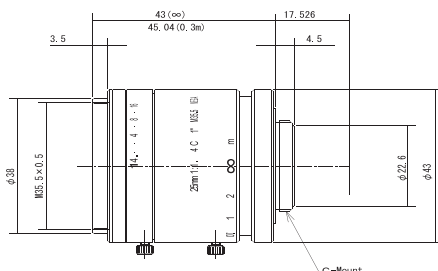
## V2514-MP

1"

2MP

FIX

MANUAL



Focal Length	25mm
Max. Aperture Ratio	1:1.4
Max. Image Format	12.8mm x 9.6mm (φ 16mm)
Operation Range	Iris F1.4 - F16.0
Focus	0.3m - Inf.
Control	Iris Manual
Focus	Manual
Object Dimension at M.O.D.	16.1cm x 11.9cm 1"
Angle of View	D 36.6° 30.7° 25.2° H 1" 29.3° 1/1.2" 25.9° 2/3" 20.2° V 22.0° 16.3° 15.1°
Operating Temperature	-10°C ~ +50°C

Distortion	1" -3.14%(y=8.0) 1/1.2" -2.2%(y=6.7) 2/3" -1.48%(y=5.5)
Back Focal Length	15.71mm
Flange Back Length	17.526mm
Mount	C-Mount
Filter Size	M35.5 P=0.5mm
Dimensions	φ 38mm x 43mm
Weight	150g

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)					
			1"		1/1.2"		2/3"	
			H	V	H	V	H	V
1000	0.024	-	536.3	401.7	472.8	297.1	368.2	276.2
950	0.025	-	509.5	382.5	450.2	282.9	350.6	263.0
900	0.027	-	482.6	362.3	426.4	267.9	332.1	249.1
850	0.028	-	455.8	341.6	402.1	252.7	313.2	234.9
800	0.030	-	429.0	322.2	379.2	238.3	295.3	221.5
750	0.032	-	402.2	301.9	355.4	223.3	276.7	207.6
700	0.034	-	375.4	281.5	331.4	208.2	258.1	193.6
650	0.037	-	348.6	261.6	307.9	193.5	239.8	179.8
600	0.040	-	321.8	241.2	283.9	178.4	221.1	165.8
550	0.043	-	295.0	221.2	260.4	163.6	202.8	152.1
500	0.048	-	268.1	201.3	236.9	148.9	184.5	138.4
450	0.053	-	241.3	181.1	213.2	134.0	166.0	124.5
400	0.060	-	214.5	160.8	189.3	118.9	147.4	110.6
350	0.068	-	187.7	140.8	165.7	104.1	129.0	96.8
300	0.080	-	160.9	119.2	141.2	87.6	109.1	81.3
250	0.106	2.5	120.7	90.6	106.6	67.0	83.0	62.3
200	0.135	3.5	95.1	71.3	84.0	52.8	65.4	49.0
150	0.184	4.5	69.5	52.2	61.4	38.6	47.8	35.9
100	0.291	7.5	43.9	32.9	38.8	24.4	30.2	22.7

Fiel of View = CCD Size / Optical Magnification

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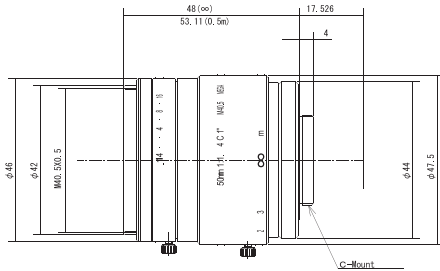
## V5014-MP

1"

2MP

FIX

MANUAL



Focal Length	50mm
Max. Aperture Ratio	1:1.4
Max. Image Format	12.8mm x 9.6mm (φ 16mm)
Operation Range	Iris F1.4 - F16.0
	Focus 0.5m - Inf.
Control	Iris Manual
	Focus Manual
Object Dimension at M.O.D.	12.6cm x 9.4cm 1"
Angle of View	D 18.0° 15.1° 9.1° H 14.5° 12.8° 7.3° V 10.9° 8.1° 5.5°
Operating Temperature	-10°C ~ +50°C

Distortion	1" 0.82%(y=8.0) 1/1.2" 0.7%(y=6.7) 2/3" 0.51%(y=5.5)
Back Focal Length	14.55mm
Flange Back Length	17.526mm
Mount	C-Mount
Filter Size	M40.5 P=0.5mm
Dimensions	φ 46mm x 48mm
Weight	200g

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View(mm)					
			1"		1/1.2"		2/3"	
			H	V	H	V	H	V
1000	0.051	-	251.5	188.2	222.1	139.5	172.9	129.7
950	0.054	-	239.0	178.8	211.0	132.6	164.3	123.2
900	0.057	-	226.4	169.4	199.9	125.6	155.6	116.7
850	0.060	-	213.8	160.0	188.8	118.6	147.0	110.2
800	0.064	-	201.2	150.6	177.7	111.6	138.4	103.8
750	0.068	-	188.7	141.2	166.6	104.7	129.7	97.3
700	0.073	-	176.1	131.8	155.5	97.7	121.1	90.8
650	0.078	-	163.5	122.3	144.3	90.7	112.4	84.3
600	0.085	-	150.9	112.9	133.2	83.7	103.8	77.8
550	0.093	-	138.3	103.5	122.1	76.7	95.1	71.3
500	0.102	-	125.8	94.1	110.9	69.5	86.2	64.2
450	0.113	5.5	113.0	84.7	99.7	62.7	77.7	58.3
400	0.128	6.5	100.2	75.1	88.4	55.6	68.9	51.6
350	0.147	7.5	87.4	65.5	77.1	48.5	60.1	45.1
300	0.172	8.5	74.6	55.9	65.8	41.4	51.3	38.4
250	0.207	10.5	61.8	46.3	54.5	34.3	42.5	31.9
200	0.261	13.0	49.0	36.7	43.2	27.2	33.7	25.3
150	0.354	17.5	36.2	27.1	31.9	20.1	24.9	18.7
100	0.548	25.5	23.4	17.5	20.6	13.0	16.1	12.1

Field of View = CCD Size / Optical Magnification