

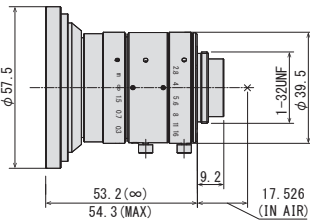


# MPY Series

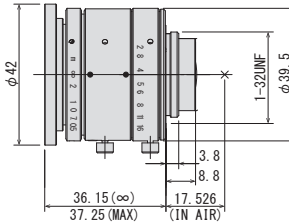
1.1" 24 MEGAPIXEL FIXED FOCAL LENS

Model No.	Format	Focal Length	F No.	Working Distance	Weight
V0828-MPY2	1.1"	8mm	F2.8-F16	0.2m-Inf.	157g
V1228-MPY2		12mm		0.3m-Inf.	97g
V1628-MPY2		16mm		0.3m-Inf.	89g
V2528-MPY		25mm		0.3m-Inf.	78g
V3528-MPY		35mm		0.3m-Inf.	103g
V5028-MPY		50mm		0.5m-Inf.	107g

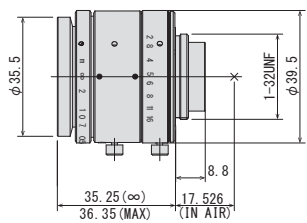
V0828-MPY2



V1228-MPY2



V1628-MPY2

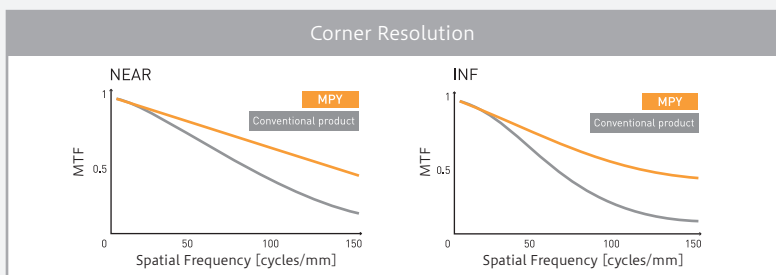


Focal Length	8mm						12mm						16mm					
Max. Aperture Ratio	1:2.8						1:2.8						1:2.8					
Max. Image Format	14.2mm × 10.4mm (φ 17.6mm)						14.2mm × 10.4mm (φ 17.6mm)						14.2mm × 10.4mm (φ 17.6mm)					
Operation Range	Iris F2.8 - F16.0						Iris F2.8 - F16.0						Iris F2.8 - F16.0					
	Focus 0.2m - Inf.						Focus 0.3m - Inf.						Focus 0.3m - Inf.					
Control	Iris Manual						Iris Manual						Iris Manual					
	Focus Manual						Focus Manual						Focus Manual					
Angle of View	D	93.9°	89.3°	69.0°			71.1°	66.4°	48.6°			57.9°	53.4°	38.2°				
	H	83.0°	77.3°	57.3°	2/3"		60.5°	55.5°	39.6°	2/3"		48.2°	43.9°	30.9°	2/3"			
	V	66.0°	61.7°	44.2°			46.2°	42.9°	30.1°			36.2°	33.6°	23.4°				
Operating Temperature	-10°C ~ +50°C						-10°C ~ +50°C						-10°C ~ +50°C					
Optical Distortion	1.1"	-0.6%	1"	-1.7%	2/3"	-2.8%	1.1"	-0.5%	1"	-1.0%	2/3"	-1.4%	1.1"	-0.5%	1"	-0.6%	2/3"	-0.6%
Back Focal Length	8.6mm						8.4mm						9.4mm					
Flange Back Length	17.526mm						17.526mm						17.526mm					
Mount	C-Mount						C-Mount						C-Mount					
Filter Size	M72 P=0.75mm (with VM0811)*						M40.5 P=0.5mm						M34.0 P=0.5mm					
	M67 P=0.75mm (with VM0810)*																	
Dimensions	φ75mm × 54mm						φ42.0mm × 36.1mm						φ39.5mm × 35.2mm					
Weight	157g						97g						89g					

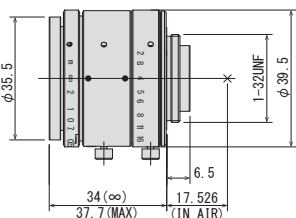
\*There is no filter mount on the top of the lens.  
When using filters, lens requires VM0811 or VM0810 (sold separately).  
For more detail, please refer to P36.

# 1.1" 24 MEGAPIXEL FIXED FOCAL LENS

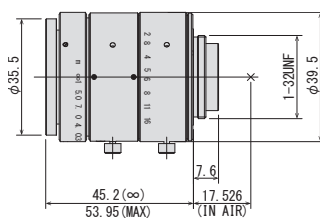
- Ultra-high-resolution lens, suitable for 1.1" 24 megapixel sensor
- Enlarged image circle up to  $\phi 17.6\text{mm}$  (1.1" sensor)
- The most compact, lightweight lens design on the machine vision market
- The floating design achieves an ultra-high-resolution from near focus to infinity
- Vibration resistance up to 5G



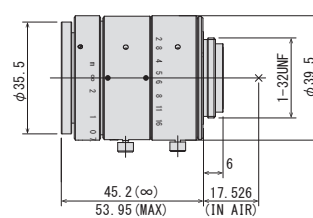
V2528-MPY



V3528-MPY



V5028-MPY



Focal Length		25mm						35mm						50mm					
Max. Aperture Ratio		1:2.8						1:2.8						1:2.8					
Max. Image Format		14.2mm × 10.4mm (φ 17.6mm)						14.2mm × 10.4mm (φ 17.6mm)						14.2mm × 10.4mm (φ 17.6mm)					
Operation Range	Iris	F2.8 - F16.0						F2.8 - F16.0						F2.8 - F16.0					
	Focus	0.3m - Inf.						0.3m - Inf.						0.5m - Inf.					
Control	Iris	Manual						Manual						Manual					
	Focus	Manual						Manual						Manual					
Angle of View	D	1.1"	38.7°	1"	35.4°	2/3"	24.8°	1.1"	28.2°	1"	25.8°	2/3"	17.9°	1.1"	20.0°	1"	18.2°	2/3"	12.6°
	H		31.7°		28.7°		20.0°		22.9°		20.7°		14.3°		16.2°		14.6°		10.1°
	V		23.5°		21.7°		15.0°		16.9°		15.6°		10.8°		11.9°		11.0°		7.6°
Operating Temperature		-10° C ~ +50° C						-10° C ~ +50° C						-10° C ~ +50z					
Optical Distortion	1.1"	0.3%	1"	0.2%	2/3"	0.1%	1.1"	-0.1%	1"	0.0%	2/3"	0.0%	1.1"	0.1%	1"	0.1%	2/3"	0.1%	
Back Focal Length	11.3mm						11.9mm						11.9mm						
Flange Back Length	17.526mm						17.526mm						17.526mm						
Mount	C-Mount						C-Mount						C-Mount						
Filter Size	M34.0 P=0.5mm						M34.0 P=0.5mm						M34.0 P=0.5mm						
Dimensions	φ39.5mm × 34mm						φ39.5mm × 45.2mm						φ 39.5mm × 45.1mm						
Weight	78g						103g						107g						

# FIELD OF VIEW

## LensConnect DL-MPY Series

### DL0828UC-MPY (f=8mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/11"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.008	-	1399.5	1023.8	1097.3	818.7	894.6	667.5
900	0.009	-	1261.0	922.4	988.5	737.5	805.9	601.3
800	0.010	-	1122.5	820.9	879.9	656.4	717.3	535.2
700	0.012	-	984.1	719.5	771.2	575.3	628.6	469.0
600	0.014	-	845.6	618.1	662.5	494.1	540.0	402.9
500	0.016	-	707.1	516.7	553.8	413.0	451.3	336.7
450	0.018	-	637.9	466.0	499.5	372.4	407.0	303.6
400	0.020	-	568.6	415.2	445.1	331.9	362.7	270.5
350	0.023	-	499.3	364.5	390.8	291.3	318.4	237.4
300	0.027	-	430.1	313.8	336.4	250.7	274.0	204.4
250	0.032	-	360.8	263.0	282.0	210.1	229.7	171.3
200	0.040	-	291.4	212.3	227.6	169.5	185.3	138.2
150	0.052	-	222.0	161.5	173.2	128.9	140.9	105.0
100	0.076	-	152.4	110.6	118.7	88.2	96.5	71.9

### DL1224UC-MPY (f=12mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/11"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.012	-	950.2	695.0	744.6	556.6	607.8	454.5
900	0.013	-	855.6	625.8	670.4	501.1	547.2	409.2
800	0.015	-	761.2	556.6	596.3	445.7	486.7	363.9
700	0.017	-	666.7	487.4	522.2	390.3	426.2	318.7
600	0.020	-	572.2	418.2	448.1	334.9	365.7	273.4
500	0.024	-	477.7	349.0	374.0	279.4	305.2	228.1
450	0.026	-	430.4	314.4	336.9	251.7	274.9	205.5
400	0.030	-	383.1	279.8	299.8	224.0	244.6	182.8
350	0.034	-	335.8	245.2	262.7	196.2	214.3	160.2
300	0.040	-	288.5	210.5	225.6	168.5	184.0	137.5
250	0.047	-	241.2	175.9	188.5	140.7	153.7	114.9
200	0.059	-	193.8	141.2	151.4	113.0	123.4	92.2
150	0.078	-	146.3	106.4	114.1	85.1	93.0	69.5
100	0.117	-	98.5	71.5	76.7	57.1	62.4	46.6

### DL1623UC-MPY (f=16mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/11"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.016	-	712.8	521.6	558.7	418.0	456.3	341.5
900	0.018	-	642.0	469.8	503.2	376.5	411.0	307.6
800	0.020	-	571.3	418.0	447.8	335.0	365.7	273.7
700	0.023	-	500.6	366.3	392.3	293.5	320.5	239.8
600	0.026	-	429.9	314.5	336.9	252.0	275.1	205.9
500	0.032	-	359.1	262.7	281.4	210.5	229.8	172.0
450	0.035	-	323.7	236.8	253.6	189.7	207.1	155.0
400	0.039	-	288.3	210.9	225.9	169.0	184.5	138.0
350	0.045	-	252.9	184.9	198.1	148.2	161.8	121.0
300	0.052	-	217.4	158.9	170.3	127.3	139.0	104.0
250	0.062	-	181.8	132.9	142.4	106.5	116.3	87.0
200	0.078	-	146.2	106.8	114.4	85.6	93.4	69.9
150	0.103	-	110.2	80.5	86.3	64.5	70.4	52.7
110	0.140	-	81.0	59.2	63.4	47.4	51.8	38.8

### DL2523UC-MPY (f=25mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/11"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.025	-	454.9	333.3	356.8	267.5	291.8	218.8
900	0.027	-	409.9	300.3	321.5	241.0	263.0	197.2
800	0.031	-	364.9	267.3	286.2	214.6	234.1	175.5
700	0.035	-	319.9	234.4	250.9	188.1	205.2	153.9
600	0.041	-	274.9	201.4	215.6	161.6	176.4	132.2
500	0.049	-	229.9	168.4	180.3	135.2	147.5	110.5
450	0.054	-	207.3	151.9	162.6	121.9	133.0	99.7
400	0.061	-	184.8	135.3	144.9	108.6	118.5	88.9
350	0.069	-	162.2	118.8	127.2	95.3	104.0	78.0
300	0.081	-	139.5	102.2	109.4	82.0	89.5	67.1
250	0.096	-	116.8	85.6	91.6	68.7	74.9	56.2
200	0.120	-	94.0	68.9	73.7	55.3	60.3	45.2
150	0.158	-	71.0	52.0	55.7	41.7	45.5	34.1
120	0.198	-	56.9	41.7	44.6	33.5	36.5	27.4

### DL3525UC-MPY (f=35mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/11"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.034	-	332.1	243.0	260.2	195.0	212.8	159.5
900	0.038	-	299.9	219.4	234.9	176.0	192.1	144.0
800	0.042	-	267.6	195.7	209.6	157.1	171.4	128.5
700	0.048	-	235.3	172.1	184.3	138.1	150.6	112.9
600	0.056	-	202.9	148.3	158.9	119.0	129.9	97.3
500	0.066	-	170.4	124.5	133.4	99.9	109.0	81.7
450	0.073	-	154.1	112.6	120.6	90.3	98.6	73.8
400	0.082	-	137.7	100.6	107.7	80.7	88.1	66.0
350	0.093	-	121.2	88.5	94.8	71.0	77.5	58.1
300	0.108	-	104.6	76.4	81.8	61.3	66.9	50.1
250	0.129	-	87.8	64.1	68.7	51.4	56.1	42.0
200	0.160	-	70.8	51.7	55.3	41.4	45.2	33.9
160	0.200	-	56.7	41.4	44.3	33.2	36.2	27.1

### DL5028UC-MPY (f=50mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/11"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.046	-	246.7	180.5	193.3	144.9	158.1	118.5
900	0.050	-	223.3	163.4	175.0	131.1	143.1	107.3
800	0.056	-	199.9	146.2	156.6	117.4	128.1	96.0
700	0.064	-	176.4	129.0	138.2	103.5	113.0	84.7
600	0.074	-	152.8	111.7	119.6	89.6	97.8	73.3
500	0.087	-	129.0	94.3	101.0	75.7	82.6	61.9
450	0.096	-	117.0	85.6	91.6	68.6	74.9	56.1
400	0.107	-	105.0	76.7	82.2	61.6	67.2	50.4
350	0.122	-	92.8	67.9	72.7	54.4	59.4	44.5
300	0.140	-	80.5	58.9	63.0	47.2	51.5	38.6
250	0.166	-	68.0	49.7	53.2	39.9	43.5	32.6
200	0.205	-	55.2	40.3	43.2	32.3	35.3	26.5

## Lens Connect Vari focal Series

### ML3Z1226UC-MPW

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)								
			2/3"			1/2"			1/3"		
			D	H	V	D	H	V	D	H	V
1000	WIDE	0.012	974.9	773.8	574.8	701.0	556.9	415.2	521.3	415.2	310.3
	TELE	0.034	320.0	257.4	193.8	234.4	188.0	141.2	176.3	141.2	106.0
900	WIDE	0.013	880.7	698.9	519.1	633.1	502.9	374.9	470.7	374.9	280.2
	TELE	0.038	290.0	233.2	175.5	212.3	170.2	127.8	159.6	127.8	95.9
800	WIDE	0.015	786.6	623.9	463.3	565.1	448.9	334.6	420.1	334.6	250.0
	TELE	0.042	260.0	208.9	157.1	190.1	152.3	114.4	142.9	114.4	85.8
700	WIDE	0.016	692.5	549.0	407.6	497.2	394.9	294.3	369.6	294.3	219.9
	TELE	0.048	230.0	184.6	138.7	167.9	134.5	101.0	126.1	101.0	75.8
600	WIDE	0.019	598.3	474.1	351.8	429.3	340.8	254.0	319.0	254.0	189.8
	TELE	0.055	199.7	160.0	120.1	145.6	116.5	87.4	109.2	87.4	65.6
500	WIDE	0.023	504.0	399.0	296.0	361.2	286.7	213.6	268.3	213.6	159.6
	TELE	0.065	168.9	135.1	101.3	122.8	98.2	73.7	92.1	73.7	55.2
400	WIDE	0.028	409.9	324.1	240.2	293.3	232.7	173.4	217.8	173.4	129.5
	TELE	0.080	137.7	109.9	82.3	99.8	79.8	59.8	74.8	59.8	44.8
300	WIDE	0.036	315.6	249.1	184.4	225.3	178.7	133.0	167.2	133.0	99.3
	TELE	0.103	108.1	86.0	64.2	78.0	62.3	46.6	58.3	46.6	34.9
200	WIDE	0.052	221.2	174.0	128.6	157.3	124.5	92.6	116.5	92.6	69.2
	TELE	0.139	81.1	64.2	47.8	58.2	46.4	34.7	43.4	34.7	25.9
100	WIDE	0.093	126.4	98.6	72.6	89.0	70.3	52.2	65.7	52.2	38.9
	TELE	0.213	54.0	42.4	31.4	38.4	30.5	22.7	28.5	22.7	17.0