

NEW Lens  **connect**

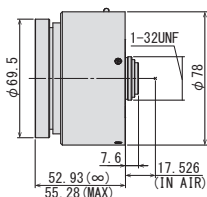
VL-MPZ Series

1" 20 MEGA PIXEL FIXED FOCAL REMOTE CONTROL LENS

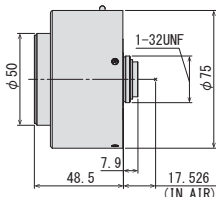


Model No.	Format	Focal Length	F No.	Working Distance	Weight
VL0826U-MPZ	1"	8mm	F2.6	0.1m-Inf.	334g
VL1226U-MPZ		12mm	F2.6	0.1m-Inf.	273g
VL1624U-MPZ		16mm	F2.4	0.1m-Inf.	280g
VL2520U-MPZ		25mm	F2.0	0.15m-Inf.	257g
VL3522U-MPZ		35mm	F2.2	0.2m-Inf.	313g
VL5024U-MPZ		50mm	F2.4	0.2m-Inf.	326g
VL7531U-MPZ		75mm	F3.1	0.25m-Inf.	415g

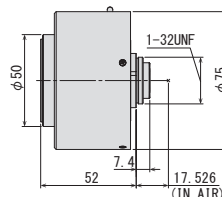
VL0826U-MPZ



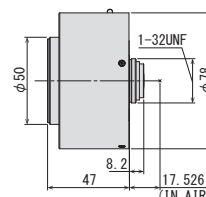
VL1226U-MPZ



VL1624U-MPZ



VL2520U-MPZ



Focal Length	8mm	12mm	16mm	25mm
Max. Aperture Ratio	1:2.6	1:2.6	1:2.4	1:2.0
Max. Image Format	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)
Operation Range	Iris	F2.6 - F16.0	F2.6 - F16.0	F2.4 - F16.0
	Focus	0.1m - Inf.	0.1m - Inf.	0.1m - Inf.
Control	Iris	Motorized	Motorized	Motorized
	Focus	Motorized	Motorized	Motorized
Angle of View	D	88.8°	68.6°	58.2°
	H	1" 76.9°	2/3" 57.1°	1/1.8" 47.8°
	V	61.5°	44.2°	36.6°
Operating Temperature	-10° C ~ +50° C			-10° C ~ +50° C

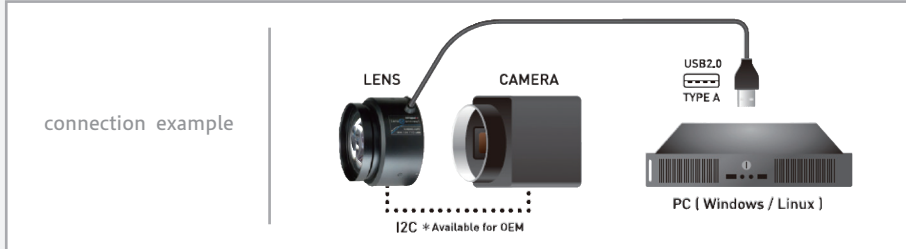
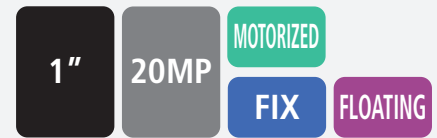
Optical Distortion	1" -0.8%	2/3" -2.1%	1/1.8" -1.9%	1" 0.0%	2/3" -1.1%	1/1.8" -1.0%	1" 0.0%	2/3" -0.4%	1/1.8" -0.4%	1" 0.0%	2/3" 0.0%	1/1.8" 0.0%
Back Focal Length	10.6mm (In Air)			10.6mm (In Air)			10.7mm (In Air)			9.1mm (In Air)		
Flange Back Length	17.526mm (In Air)			17.526mm (In Air)			17.526mm (In Air)			17.526mm (In Air)		
Mount	C-Mount			C-Mount			C-Mount			C-Mount		
Filter Size	M82 P=0.75mm (With ZM0810)*			M46 P=0.75mm			M43 P=0.75mm			M46 P=0.75mm		
Weight	334g			273g			280g			257g		

Control Interface	USB2.0			USB2.0			USB2.0			USB2.0		
Power mode	Bus power (500mA)			Bus power (500mA)			Bus power (500mA)			Bus power (500mA)		
Connector	USB TypeA			USB TypeA			USB TypeA			USB TypeA		

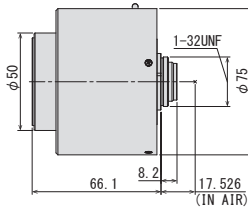
*When using filters, lens requires VM0810 (sold separately).
For more detail please refer to P.36

1" 20 MEGAPIXEL FIXED FOCAL REMOTE CONTROL LENS

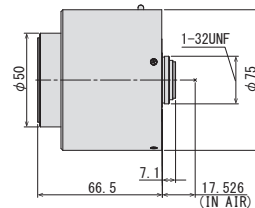
- Motorized FA lens that can be operated easily with a single USB cable
- Focus and Iris can be controlled via USB
- Ultra-high resolution lens, suitable for 1" 20 megapixel sensor
- Much lower distortion design for all models is beneficial for a variety of machine vision applications
- Has the newest optical design, which has a much higher relative illuminance compared to conventional models, despite having a large format 1" sensor (Ø16mm)



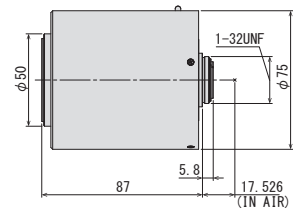
VL3522U-MPZ



VL5024U-MPZ



VL7531U-MPZ



Focal Length	35mm						50mm						75mm						
Max. Aperture Ratio	1:2.2						1:2.4						1:3.1						
Max. Image Format	12.8mm × 9.6mm(φ 16mm)						12.8mm × 9.6mm(φ 16mm)						12.8mm × 9.6mm(φ 16mm)						
Operation Range	Iris	F2.2 - F16.0					F2.4 - F16.0						F3.1 - F16.0						
	Focus	0.2m - Inf.					0.2m - Inf.						0.25m - Inf.						
Control	Iris	Motorized					Motorized						Motorized						
	Focus	Motorized					Motorized						Motorized						
Angle of View	D	1"	25.8°	2/3"	17.9°	1/1.8"	14.7°	1"	18.2°	2/3"	12.6°	1/1.8"	10.3°	1"	12.2°	2/3"	8.4°	1/1.8"	6.9°
	H	1"	20.8°	2/3"	14.4°	1/1.8"	11.8°	1"	14.6°	2/3"	10.1°	1/1.8"	8.3°	1"	9.8°	2/3"	6.7°	1/1.8"	5.5°
	V	1"	15.7°	2/3"	10.8°	1/1.8"	8.9°	1"	11.0°	2/3"	7.6°	1/1.8"	6.2°	1"	7.3°	2/3"	5.0°	1/1.8"	4.1°
Operating Temperature	-10° C ~ +50° C						-10° C ~ +50° C						-10° C ~ +50° C						

Optical Distortion	1"	0.0%	2/3"	0.0%	1/1.8"	0.0%	1"	0.0%	2/3"	0.0%	1/1.8"	0.0%	1"	0.0%	2/3"	0.0%	1/1.8"	0.0%
Back Focal Length	9.7mm (In Air)						11.1mm (In Air)						12.0mm (In Air)					
Flange Back Length	17.526mm (In Air)						17.526mm (In Air)						17.526mm (In Air)					
Mount	C-Mount						C-Mount						C-Mount					
Filter Size	M43 P=0.75mm						M43 P=0.75mm						M43 P=0.75mm					
Weight	313g						326g						415g					

Control Interface	USB2.0						USB2.0						USB2.0					
Power mode	Bus power (500mA)						Bus power (500mA)						Bus power (500mA)					
Connector	USB TypeA						USB TypeA						USB TypeA					

V3528-MPY (f=35mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		1 1/8"		2/3"	
			H	V	H	V	H	V
1000	0.036	-	393.4	288.2	354.6	266.0	243.9	182.9
900	0.040	-	352.7	258.4	317.9	238.5	218.6	164.0
800	0.046	-	312.1	228.6	281.3	211.0	193.5	145.1
700	0.052	-	271.6	198.9	244.8	183.6	168.3	126.3
600	0.061	-	231.0	169.2	208.2	156.2	143.2	107.4
500	0.075	-	190.4	139.5	171.6	128.8	118.0	88.6
450	0.083	-	170.1	124.6	153.4	115.1	105.5	79.1
400	0.095	-	149.8	109.8	135.1	101.3	92.9	69.7
350	0.110	-	129.5	94.9	116.8	87.6	80.3	60.3
300	0.130	-	109.3	80.1	98.5	73.9	67.8	50.8
250	0.157	1.5	90.4	66.2	81.5	61.1	56.0	42.0
200	0.201	3.0	70.9	51.9	63.9	47.9	43.9	32.9
150	0.277	6.0	51.6	37.7	46.5	34.8	31.9	23.9
100	0.435	15.0	32.9	24.0	29.6	22.2	20.3	15.2

V5028-MPY (f=50mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		1 1/8"		2/3"	
			H	V	H	V	H	V
1000	0.055	-	257.9	188.9	232.5	174.4	159.8	119.9
900	0.062	-	229.5	168.1	206.9	155.1	142.2	106.7
800	0.071	-	201.1	147.2	181.2	135.9	124.6	93.4
700	0.082	-	172.7	126.4	155.6	116.7	107.0	80.2
600	0.099	-	144.2	105.6	130.0	97.5	89.4	67.0
500	0.123	-	115.9	84.8	104.4	78.3	71.8	53.8
450	0.138	1.0	103.1	75.4	92.9	69.6	63.8	47.9
400	0.158	2.0	89.9	65.8	81.0	60.7	55.7	41.7
350	0.181	5.0	78.5	57.4	70.7	53.0	48.6	36.4
300	0.222	6.0	64.2	47.0	57.8	43.3	39.7	29.8
250	0.276	10.0	51.7	37.8	46.6	34.9	32.0	24.0
200	0.373	15.0	38.2	27.9	34.4	25.8	23.6	17.7
150	0.583	25.0	24.5	17.9	22.1	16.5	15.1	11.3
100	1.255	61.5	11.3	8.3	10.2	7.7	7.0	5.3

VL0826U-MPZ/V0826-MPZ (f=8mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.009	-	1619.6	1211.4	1108.2	825.6	902.4	672.9
900	0.009	-	1460.8	1092.4	999.3	744.4	813.6	606.7
800	0.011	-	1302.0	973.4	890.4	663.2	724.9	540.5
700	0.012	-	1143.3	854.4	781.5	582.0	636.2	474.3
600	0.014	-	984.5	735.4	672.6	500.8	547.5	408.2
500	0.016	-	825.7	616.3	563.7	419.6	458.7	342.0
450	0.018	-	746.3	556.8	509.2	379.0	414.4	308.9
400	0.020	-	666.9	497.3	454.7	338.4	370.0	275.8
350	0.023	-	587.5	437.8	400.3	297.8	325.6	242.7
300	0.027	-	508.0	378.3	345.8	257.2	281.2	209.6
250	0.031	-	428.6	318.7	291.3	216.6	236.9	176.5
200	0.039	-	349.1	259.2	236.8	176.0	192.5	143.4
150	0.050	-	269.6	199.6	182.3	135.4	148.1	110.3
100	0.071	-	189.9	140.0	127.8	94.8	103.7	77.2

VL1226U-MPZ/V1226-MPZ (f=12mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.012	-	1093.8	819.7	750.6	561.0	612.6	458.2
900	0.014	-	986.0	738.8	676.5	505.7	552.2	413.0
800	0.015	-	878.1	658.0	602.5	450.3	491.7	367.7
700	0.017	-	770.3	577.1	528.5	395.0	431.3	322.5
600	0.020	-	662.5	496.3	454.4	339.6	370.8	277.3
500	0.024	-	554.6	415.4	380.4	284.3	310.4	232.1
450	0.026	-	500.7	375.0	343.3	256.6	280.2	209.5
400	0.029	-	446.8	334.6	306.3	228.9	250.0	186.9
350	0.033	-	392.9	294.1	269.3	201.2	219.7	164.3
300	0.039	-	338.9	253.7	232.3	173.5	189.5	141.7
250	0.046	-	285.0	213.3	195.3	145.9	159.3	119.1
200	0.057	-	231.1	172.9	158.2	118.2	129.1	96.5
150	0.074	-	177.2	132.4	121.2	90.5	98.9	73.9
100	0.106	-	123.2	92.0	84.2	62.8	68.6	51.3

VL1624U-MPZ/V1624-MPZ (f=16mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.016	-	811.4	608.4	557.5	417.6	455.7	341.5
900	0.018	-	761.1	548.1	502.3	376.6	410.6	310.7
800	0.020	-	650.8	487.9	447.1	334.9	365.5	273.8
700	0.023	-	570.5	427.7	391.9	293.6	320.4	240.0
600	0.027	-	490.2	367.4	336.7	252.2	275.2	206.2
500	0.032	-	409.8	307.2	281.5	210.9	230.1	172.4
450	0.035	-	369.7	277.1	253.9	190.2	207.6	155.5
400	0.039	-	329.5	247.0	226.3	169.5	185.0	138.6
350	0.045	-	289.4	216.9	198.7	148.8	162.4	121.7
300	0.052	-	249.2	186.8	171.1	128.2	139.9	104.8
250	0.062	-	209.1	156.6	143.5	107.5	117.3	87.9
200	0.077	-	168.9	126.5	115.9	86.8	94.8	71.0
150	0.101	-	128.7	96.4	88.3	66.2	72.2	54.1
100	0.146	-	88.6	66.3	60.7	45.5	49.6	37.2

VL2520U-MPZ/V2520-MPZ (f=25mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.026	-	502.6	376.9	345.4	259.0	282.6	211.9
900	0.028	-	451.3	338.4	310.1	232.6	253.7	190.3
800	0.032	-	400.1	300.0	274.9	206.2	224.9	168.7
700	0.037	-	348.9	261.5	239.7	179.7	196.1	147.1
600	0.043	-	297.7	223.1	204.5	153.3	167.3	125.5
500	0.052	-	246.4	184.7	169.3	126.9	138.5	103.8
450	0.058	-	220.8	165.5	151.7	113.7	124.1	93.0
400	0.066	-	195.2	146.3	134.1	100.5	109.7	82.2
350	0.076	-	169.6	127.1	116.5	87.3	95.3	71.4
300	0.089	-	143.9	107.8	98.8	74.1	80.8	60.6
250	0.109	-	118.3	88.6	81.2	60.9	66.4	49.8
200	0.139	-	92.7	69.4	63.6	47.7	52.0	39.0
150	0.192	-	67.0	50.2	46.0	34.5	37.6	28.2
100	0.312	5.0	41.4	31.0	28.4	21.3	23.2	17.4

VL3522U-MPZ/V3522-MPZ (f=35mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.035	-	362.4	271.8	249.1	186.8	203.8	152.9
900	0.039	-	325.8	244.3	224.0	168.0	183.2	137.4
800	0.044	-	289.3	216.9	198.8	149.1	162.7	122.0
700	0.051	-	252.7	189.5	173.7	130.3	142.1	106.6
600	0.059	-	216.1	162.1	148.5	111.4	121.5	91.1
500	0.071	-	179.5	134.6	123.4	92.5	101.0	75.7
450	0.080	-	161.2	120.9	110.8	83.1	90.7	68.0
400	0.090	-	142.9	107.2	98.2	73.7	80.4	60.3
350	0.103	-	124.7	93.5	85.7	64.3	80.1	52.6
300	0.121	-	106.4	79.7	73.1	54.8	59.8	44.9
250	0.146	-	88.1	66.0	60.5	45.4	49.5	37.1
200	0.184	-	69.9	52.4	48.0	36.0	39.3	29.5
150	0.249	2.5	51.7	38.7	35.5	26.6	29.0	21.8
100	0.385	7.0	33.5	25.1	23.0	17.2	18.8	14.1

VL5024U-MPZ/V5024-MPZ (f=50mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.053	-	245.9	184.4	169.0	126.8	138.3	103.8
900	0.059	-	220.3	165.2	151.4	113.6	123.9	93.0
800	0.066	-	194.7	146.0	133.8	100.4	109.5	82.1
700	0.076	-	169.2	126.9	116.3	87.2	95.1	71.4
600	0.090	-	143.5	107.6	98.6	74.0	80.7	60.5
500	0.109	-	118.0	88.5	81.1	60.8	66.4	49.8
450	0.122	-	105.1	78.8	72.2	54.2	59.1	44.3
400	0.139	-	92.3	69.2	63.4	47.6	51.9	38.9
350	0.162	-	79.5	59.6	54.6	41.0	44.7	33.5
300	0.193	-	66.7	50.0	45.8	34.4	37.5	28.1
250	0.239	-	53.8	40.4	37.0	27.8	30.3	22.7
200	0.313	-	41.0	30.8	28.2	21.2	23.1	17.3
150	0.455	8.5	28.2	21.2	19.4	14.6	15.9	11.9
100	0.835	30.0	15.4	11.6	10.6	8.0	8.7	6.5

VL7531U-MPZ/V7531-MPZ (f=75mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.077	-	166.9	125.2	114.8	86.1	93.9	70.4
900	0.086	-	149.8	112.4	103.0	77.3	84.3	63.2
800	0.097	-	132.8	99.6	91.3	68.5	74.7	56.0