

Fixed Focal Length Lenses

SV-V Series2/3"1/1.8"

With its large variety of focal lengths, adjustable iris & focus, and support for a wide range of extension tubes and rear converter lenses, the SV-V series is a practical match for standard factory automation applications.

- Features
- 1/2" - 1" sensor support
 - 11 models available
 - Focal length 3.5 - 100mm
 - F1.4 brightness



Table for WD, FOV and Extension Tube Length

Extension Tube (mm)	Model	SV-03514V	SV-04514V	SV-0614V	SV-0813V	SV-1214V	SV-1614V	SV-2514V	SV-3518V	SV-5018V	SV-7527V	SV-10035V							
		f3.5 ∞ ~ 200	f4.5 ∞ ~ 200	f6 ∞ ~ 200	f8 ∞ ~ 200	f12 ∞ ~ 300	f16 ∞ ~ 400	f25 ∞ ~ 500	f35 ∞ ~ 300	f50 ∞ ~ 1000	f75 ∞ ~ 1000	f100 ∞ ~ 1000							
0	WD	200	200	200	200	300	400	500	300	1000	1000	1000							
	1/2"	266.7x355.6	218.2x290.9	165.5x220.7	126.3x168.4	120.0x160.0	120.0x160.0	94.1 x 125.5	41.4x55.2	96.0x128.0	60.0x80.0	48.0x64.0							
	1/3"	200.0x266.7	163.6x218.2	124.1x165.5	94.7x126.3	90.0x120.0	90.0x120.0	70.6 x 94.1	31.0x41.4	72.0x96.0	45.0x60.0	36.0x48.0							
	Mag.	0.018x	0.022x	0.029x	0.038x	0.040x	0.040x	0.051x	0.116x	0.050x	0.080x	0.100x							
0.5	WD			63.0 42.8	118.7 69.4	298.7 143.3	517.2 220.3	1260.9 361.9	2483.1 266.3	4839.7 828.7									
	1/2"			59.3x79.0	43.6x58.2	77.4x103.2	48.0x64.0	120.0x160.0	60.0x80.0	154.8x206.5	67.6x90.1	240.0x320.0	68.6x91.4						
	1/3"			44.4x59.3	32.7x43.6	58.1x77.4	36.0x48.0	90.0x120.0	45.0x60.0	116.1x154.8	50.7x67.6	180.0x240.0	51.4x68.6						
	Mag.			0.081x 0.110x	0.062x 0.100x	0.040x 0.080x	0.031x 0.071x	0.020x 0.070x	0.014x 0.131x	0.010x 0.061x									
1	WD				53.8 38.3	143.3 91.5	258.0 151.9	631.6 282.0	1199.3 240.7	2326.7 718.0									
	1/2"				38.7x51.6	29.4x39.3	60.0x80.0	40.0x53.3	78.7x104.9	47.5x63.4	120.0x160.0	53.3x71.1	165.5x220.7	33.1x44.1	228.6x304.8	67.6x90.1			
	1/3"				29.0x38.7	22.1x29.4	45.0x60.0	30.0x40.0	59.0x78.7	35.6x47.5	90.0x120.0	40.0x53.3	124.1x165.5	24.8x33.1	171.4x226.5	50.7x67.6			
	Mag.				0.124x 0.163x	0.080x 0.120x	0.061x 0.101x	0.040x 0.090x	0.029x 0.145x	0.021x 0.071x									
1.5	WD					90.6 65.6	167.7 113.9	421.8 231.2	809.2 219.6	1589.8 634.5	4165.8 820.3								
	1/2"					39.7x52.9	30.0x40.0	52.2x69.6	36.4x48.5	80.0x106.7	43.6x58.2	111.6x148.8	30.2x40.3	154.8x206.5	59.3x79.0	240.0x320.0	46.2x61.5		
	1/3"					29.8x39.7	22.5x30.0	39.1x52.2	27.3x36.4	60.0x80.0	32.7x43.6	83.7x111.6	22.6x30.2	116.1x154.8	44.4x59.3	180.0x240.0	34.6x46.2		
	Mag.					0.121x 0.160x	0.092x 0.132x	0.060x 0.110x	0.043x 0.159x	0.031x 0.081x	0.020x 0.104x								
2	WD					65.1 49.7	124.1 91.0	321.0 196.0	600.2 200.7	1184.5 563.7	3185.4 777.0	5016.3 845.5							
	1/2"					29.8x39.8	23.9x31.8	39.3x52.5	29.6x39.5	60.8x81.0	36.9x49.2	82.8x110.3	27.6x36.8	114.3x152.4	52.2x68.9	184.6x246.2	42.9x57.1	128.8x304.8	37.2x49.6
	1/3"					22.4x29.8	17.9x23.9	29.5x39.3	22.2x29.6	45.6x60.8	27.7x36.9	62.1x82.8	20.7x27.6	85.7x114.3	39.1x52.2	138.5x184.6	32.1x42.9	171.4x226.5	27.9x37.2
	Mag.					0.161x 0.201x	0.122x 0.162x	0.079x 0.130x	0.058x 0.174x	0.042x 0.092x	0.026x 0.112x	0.021x 0.129x							
5	WD					43.5 37.4	128.8 103.4	242.3 134.7	503.6 353.8	1420.5 607.8	2268.1 712.1								
	1/2"					15.7x20.9	13.9x18.5	24.1x32.2	19.3x25.7	33.3x44.4	18.5x24.6	46.2x61.5	31.2x41.6	73.8x98.5	30.2x40.3	92.3x123.1	27.6x36.8		
	1/3"					11.8x15.7	10.4x13.9	18.1x24.1	14.5x19.3	25.0x33.3	13.8x18.5	34.6x46.2	23.4x31.2	55.4x73.8	22.6x30.2	69.2x92.3	20.7x27.6		
	Mag.					0.306x 0.346x	0.199x 0.249x	0.144x 0.260x	0.104x 0.154x	0.065x 0.159x	0.052x 0.174x								
10	WD					65.7 58.5	121.7 87.0	272.9 227.5	832.2 475.4	1352.1 595.7									
	1/2"					12.1x16.1	10.7x14.3	16.7x22.2	11.9x15.8	23.1x30.8	18.5x24.7	36.9x49.2	20.2x26.9	46.2x61.5	19.4x25.9				
	1/3"					9.1x12.1	8.0x10.7	12.5x16.7	8.9x11.9	17.3x23.1	13.9x18.5	27.5x36.9	15.1x20.2	34.6x46.2	14.6x19.4				
	Mag.					0.397x 0.448x	0.288x 0.404x	0.208x 0.259x	0.130x 0.238x	0.104x 0.247x									
15	WD					44.6 41.2	81.5 64.4	195.5 174.4	636.1 409.0	1046.8 532.7									
	1/2"					8.1x10.7	7.4x9.9	11.1x14.8	8.8x11.7	15.3x20.4	13.2x17.6	24.5x32.7	15.1x20.2	30.6x40.8	15.0x19.9				
	1/3"					6.0x8.1	5.6x7.4	8.3x11.1	6.6x8.8	11.5x15.3	9.9x13.2	18.4x24.5	11.4x15.1	22.9x30.6	11.2x15.0				
	Mag.					0.596x 0.647x	0.432x 0.548x	0.313x 0.363x	0.196x 0.317x	0.157x 0.321x									
20	WD					34.0 32.1	61.4 51.2	157.3 145.0	538.1 369.1	894.1 493.3									
	1/2"					6.0x8.1	5.7x7.6	8.3x11.1	6.9x9.2	11.5x15.3	10.3x13.7	18.4x24.5	12.1x16.2	23.0x30.6	12.2x16.2				
	1/3"					4.5x6.0	4.3x5.7	6.3x8.3	5.2x6.9	8.6x11.5	7.7x10.3	13.8x18.4	9.1x12.1	17.2x23.0	9.1x12.2				
	Mag.					0.795x 0.845x	0.576x 0.692x	0.417x 0.467x	0.261x 0.396x	0.209x 0.395x									
25	WD					49.4 42.6	134.3 126.3	479.2 342.5	802.5 466.3										
	1/2"					6.7x8.9	5.7x7.7	9.2x12.3	8.4x11.2	14.7x19.6	10.1x13.5	18.4x24.5	10.3x13.7						
	1/3"					5.0x6.7	4.3x5.7	6.9x9.2	6.3x8.4	11.0x14.7	7.6x10.1	13.8x18.4	7.7x10.3						
	Mag.					0.719x 0.836x	0.521x 0.571x	0.326x 0.474x	0.261x 0.468x										
30	WD					41.3 36.5	119.0 113.3	440.0 323.4	741.4 446.6										
	1/2"					5.6x7.4	4.9x6.5	7.7x10.2	7.1x9.5	12.3x16.4	8.7x11.6	15.3x20.4	8.9x11.8						
	1/3"					4.2x5.6	3.7x4.9	5.8x7.7	5.3x7.1	9.2x12.3	6.5x8.7	11.5x15.3	6.6x8.9						
	Mag.					0.863x 0.980x	0.625x 0.675x	0.391x 0.553x	0.313x 0.542x										
35	WD					35.5 32.0	108.0 103.8	412.0 309.1	697.8 431.6										
	1/2"					4.8x6.4	4.3x5.7	6.6x8.8	6.2x8.2	10.5x14.0	7.6x10.1	13.1x17.5	7.8x10.4						
	1/3"					3.6x4.8	3.2x4.3	4.9x6.6	4.6x6.2	7.9x10.5	5.7x7.6	9.8x13.1	5.8x7.8						
	Mag.					1.007x 1.123x	0.730x 0.780x	0.456x 0.632x	0.366x 0.616x										
40	WD								99.8 96.5	391.0 298.0	665.1 419.8								
	1/2"								5.8x7.7	5.4x7.2	9.2x12.3	6.8x9.0	11.5x15.3	7.0x9.3					
	1/3"								4.3x5.8	4.1x5.4	6.9x9.2	5.1x6.8	8.6x11.5	5.2x7.0					
	Mag.								0.834x 0.884x	0.522x 0.711x	0.418x 0.690x								
45	WD								93.4 90.8	374.7 289.1	639.6 410.3								
	1/2"								5.1x6.8	4.9x6.5	8.2x10.9	6.1x8.1	10.2x13.6	6.3x8.4					
	1/3"								3.8x5.1	3.6x4.9	6.1x8.2	4.6x6.1	7.7x10.2	4.7x6.3					
	Mag.								0.938x 0.988x	0.587x 0.790x	0.470x 0.763x								
50	WD								88.3 86.2	361.6 281.8	619.3 402.5								
	1/2"								4.6x6.1	4.4x5.9	7.4x9.8	5.5x7.4	9.2x12.3	5.7x7.6					
	1/3"								3.5x4.6	3.3x4.4	5.5x7.4	4.1x5.5	6.9x9.2	4.3x5.7					
	Mag.								1.042x 1.092x	0.652x 0.869x	0.522x 0.837x								

Description of the table above

Extension Tube (mm)	Model Focal Length	SV-○○○○○V	
		Focus 0.5m~∞	
5	WD	103	130
	1/3"	14x19	19x25
	1/2"	18x24	24x32
	Mag.	0.25x	0.20x
↓			
Length of Extension Tube			

→ Object Distance(mm)

→ The distance between the object and the front of the lens

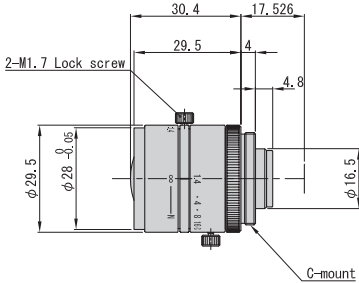
→ FOV with a 1/3" sensor

→ FOV with a 1/2" sensor

→ Optical Magnification

SV-03514V

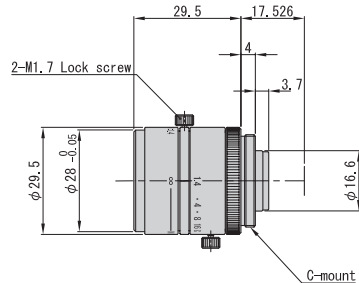
*Filter adapter, SV-FAD28-305, is available. (P143)



Focal Length (f)	3.5 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ Close
Angle of View (1/2")	77.8° x 105.9°
M.O.D	200 mm
TV Distortion (1/2")	-14.65 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/2"
Weight (approx.)	52 g
Dimension	φ29.5(max.) x L = 30.4 mm

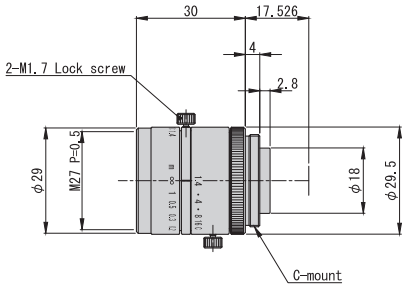
SV-04514V

*Filter adapter, SV-FAD28-305, is available. (P143)



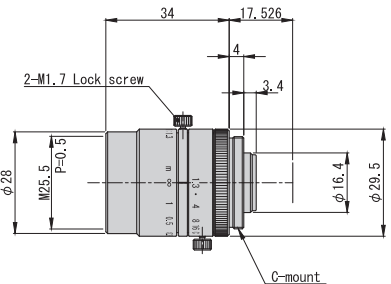
Focal Length (f)	4.5 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ Close
Angle of View (1/2")	59.7° x 79.9°
M.O.D	200 mm
TV Distortion (1/2")	-8.15 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/2"
Weight (approx.)	54 g
Dimension	φ29.5(max.) x L = 29.5 mm

SV-0614V



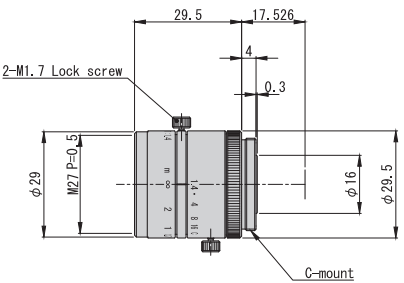
Focal Length (f)	6 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ Close
Angle of View (1/2")	43.4° x 56.6°
M.O.D	200 mm
TV Distortion (1/2")	-1.36 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/2"
Filter Thread	M 27 P = 0.5
Weight (approx.)	47 g
Dimension	φ29.5(max.) x L = 30 mm

SV-0813V



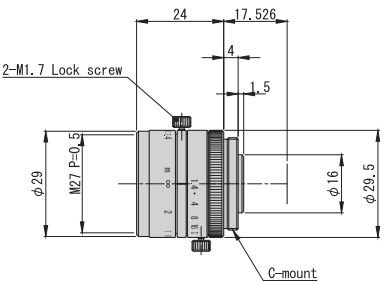
Focal Length (f)	8 mm
Maximum Aperture Ratio	1:1.3
Aperture	F1.3 ~ Close
Angle of View (2/3")	49.0° x 57.2°
M.O.D	200 mm
TV Distortion (2/3")	-1.57 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 25.5 P = 0.5
Weight (approx.)	54 g
Dimension	φ29.5(max.) x L = 34 mm

SV-1214V



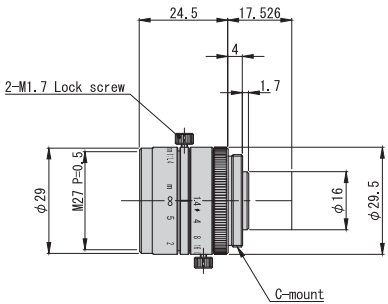
Focal Length (f)	12 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ Close
Angle of View (1/2")	21.9° x 29.1°
M.O.D	300 mm
TV Distortion (1/2")	-0.31 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/2"
Filter Thread	M 27 P = 0.5
Weight (approx.)	43 g
Dimension	φ29.5(max.) x L = 29.5 mm

SV-1614V



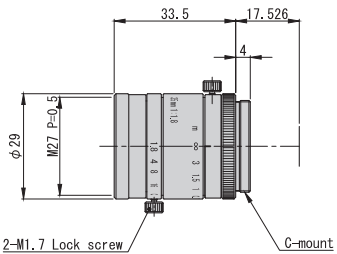
Focal Length (f)	16 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ Close
Angle of View (2/3")	24.6° x 28.9°
M.O.D	400 mm
TV Distortion (2/3")	-0.08 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	34 g
Dimension	φ29.5(max.) x L = 24 mm

SV-2514V



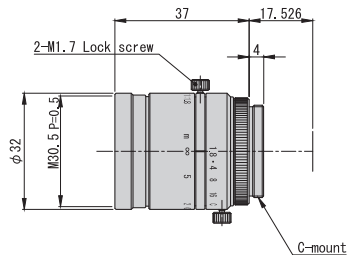
Focal Length (f)	25 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ Close
Angle of View (2/3")	16.1° x 19.0°
M.O.D	500 mm
TV Distortion (2/3")	-0.33 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 27 P = 0.5
Weight (approx.)	36 g
Dimension	φ29.5(max.) x L = 24.5 mm

SV-3518V



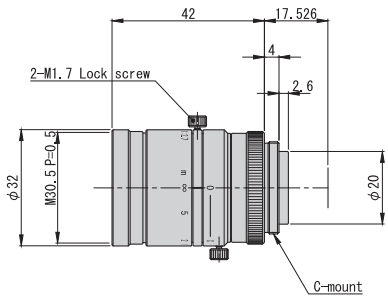
Focal Length (f)	35 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (2/3")	11.7° x 13.8°
M.O.D	300 mm
TV Distortion (2/3")	-0.12 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	48 g
Dimension	φ29(max.) x L = 33.5 mm

SV-5018V



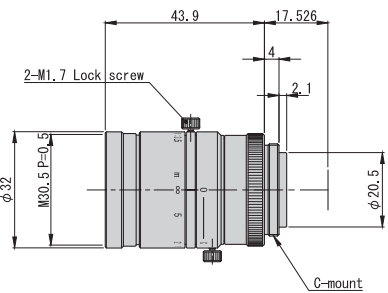
Focal Length (f)	50 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (2/3")	8.5° x 10.0°
M.O.D	1000 mm
TV Distortion (2/3")	0.10 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	66g
Dimension	φ32(max.) x L = 37 mm

SV-7527V



Focal Length (f)	75 mm
Maximum Aperture Ratio	1:2.7
Aperture	F2.7 ~ Close
Angle of View (1/2")	3.6° x 4.7°
M.O.D	1000 mm
TV Distortion (1/2")	0.55 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/2"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	74g
Dimension	φ32(max.) x L = 42 mm

SV-10035V



Focal Length (f)	100 mm
Maximum Aperture Ratio	1:3.5
Aperture	F3.5 ~ Close
Angle of View (1/2")	2.9° x 3.8°
M.O.D	1000 mm
TV Distortion (1/2")	0.56 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/2"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	76g
Dimension	φ32(max.) x L = 43.9 mm

Compact High Resolution Fixed Focal Length Lenses

VS-VM Series 1/1.8"

When designing this series we wanted to deliver the best image possible with a fixed focal length lens, while keeping the lens compact. This VS-VM series has an uncompromisingly excellent resolution and high contrast, making it the best choice for any machine vision application using a camera, with up to a 1/1.8" sensor.

Features

- 1/1.8" sensor support
- 7 models available
- Focal length 6 - 50mm
- Vibration resistant design
- High contrast & resolution
- F1.8 brightness
- Compact design



Table for WD, FOV and Extension Tube Length

Extension Tube (mm)	Model Focal Length	VS-0620VM f6		VS-0818VM F8		VS-1218VM f12		VS-1618VM f16		VS-2518VM f25		VS-3518VM f35		VS-5026VM f50	
		Focus ∞ ~ 100		Focus ∞ ~ 100		Focus ∞ ~ 100		Focus ∞ ~ 100		Focus ∞ ~ 250		Focus ∞ ~ 250		Focus ∞ ~ 400	
0	WD	100		100		100		100		250		250		400	
	1/1.8"	98.2x129.1		75.0x98.6		50.9x67.0		36.0x47.3		55.7x73.2		38.6x50.7		39.4x51.8	
	1/2"	87.3x116.4		66.7x88.9		45.3x60.4		32.0x42.7		49.5x66.0		34.3x45.7		35.0x46.7	
	Mag.	0.055x		0.072x		0.106x		0.150x		0.097x		0.140x		0.137x	
0.5	WD	63.5	32.7	119.7	47.1	283.0	68.1	518.0	81.6	1257.0	205.6	2483.1	226.7	5034.2	375.0
	1/1.8"	66.7x87.7	39.7x52.2	88.5x116.4	40.6x53.4	131.7x173.2	36.7x48.3	174.2x229.0	30.0x39.4	270.0x355.0	46.6x61.2	385.7x507.1	35.1x46.1	540.0x710.0	36.7x48.3
	1/2"	59.3x79.0	35.3x47.1	78.7x104.9	36.1x48.1	117.1x156.1	32.7x43.5	154.8x206.5	26.7x35.6	240.0x320.0	41.4x55.2	342.9x457.1	31.2x41.6	480.0x640.0	32.7x43.5
	Mag.	0.081x	0.136x	0.061x	0.133x	0.041x	0.147x	0.031x	0.180x	0.020x	0.116x	0.014x	0.154x	0.010x	0.147x
1	WD					134.0	50.0	258.7	68.3	638.1	173.4	1199.3	207.9	2534.6	353.4
	1/1.8"					65.9x86.6	28.7x37.8	88.5x116.4	25.6x33.6	138.5x182.1	39.7x52.2	186.2x244.8	32.1x42.3	270.0x355.0	34.4x45.2
	1/2"					58.5x78.0	25.5x34.0	78.7x104.9	22.7x30.3	123.1x164.1	35.3x47.1	165.5x220.7	28.6x38.1	240.0x320.0	30.6x40.8
	Mag.					0.082x	0.188x	0.061x	0.211x	0.039x	0.136x	0.029x	0.168x	0.020x	0.157x
1.5	WD					84.3	38.3	168.5	58.6	417.3	149.5	809.1	190.9	1701.4	334.3
	1/1.8"					43.9x57.7	23.6x31.0	58.7x77.2	22.4x29.5	91.5x120.3	34.6x45.5	125.6x165.1	29.5x38.8	180.0x236.7	32.3x42.5
	1/2"					39.0x52.0	21.0x27.9	52.2x69.6	19.9x26.6	81.4x108.5	30.8x41.0	111.6x148.8	26.2 x 35.0	160.0x213.3	28.7x38.3
	Mag.					0.123x	0.229x	0.092x	0.241x	0.059x	0.156x	0.043x	0.183x	0.030x	0.167x
2	WD					59.5	30.2	124.8	50.9	308.2	131.8	600.1	177.4	1284.8	317.4
	1/1.8"					32.9x43.3	20.0x26.3	44.3x58.2	19.9x26.1	68.4x89.9	30.9x40.6	93.1x122.4	27.4x36.0	135.0x177.5	30.5x40.1
	1/2"					29.3x39.0	17.8x23.7	39.3x52.5	17.6x23.5	60.8x81.0	27.4x 36.6	82.8x110.3	24.4x32.5	120.0x160.0	27.1x36.2
	Mag.					0.164x	0.270x	0.122x	0.272x	0.079x	0.175x	0.058x	0.197x	0.040x	0.177x
5	WD									115.6	73.3	242.3	123.8	534.9	245.9
	1/1.8"									27.4x36.0	18.4x24.2	37.5x49.3	19.1x25.1	54.0x71.0	22.8x30.0
	1/2"									24.4x32.5	16.4x21.8	33.3x44.4	17.0x22.6	48.0x64.0	20.3x27.0
	Mag.									0.197x	0.293x	0.144x	0.283x	0.100x	0.237x
10	WD									51.1	38.5	121.7	82.4	284.9	183.3
	1/1.8"									13.7x18.0	11.0x14.5	18.8x24.7	12.6x16.6	27.0x35.5	16.0x21.1
	1/2"									12.2x16.2	9.8x13.1	16.7x22.2	11.2x15.0	24.0x32.0	14.2x19.0
	Mag.									0.394x	0.490x	0.288x	0.427x	0.200x	0.337x
15	WD											81.5	61.9	201.6	149.4
	1/1.8"											12.5x16.4	9.5x12.4	18.0x23.7	12.4x16.2
	1/2"											11.1x14.8	8.4x11.2	16.0x21.3	11.0x14.6
	Mag.											0.432x	0.571x	0.300x	0.437x
20	WD											61.3	49.6	159.9	128.1
	1/1.8"											9.4x12.3	7.6x9.9	13.5x17.8	10.1x13.2
	1/2"											8.3x11.1	6.7x9.0	12.0x16.0	8.9x11.9
	Mag.											0.576x	0.715x	0.400x	0.537x
25	WD											49.3	41.5	134.9	113.4
	1/1.8"											7.5x9.9	6.3x8.3	10.8x14.2	8.5x11.1
	1/2"											6.7x8.9	5.6x7.5	9.6x12.8	7.5x10.0
	Mag.											0.719x	0.859x	0.500x	0.637x
30	WD											41.3	35.7	118.3	102.8
	1/1.8"											6.3x8.2	5.4x7.1	9.0x11.8	7.3x9.6
	1/2"											5.6x7.4	4.8x6.4	8.0x10.7	6.5x8.7
	Mag.											0.863x	1.003x	0.600x	0.737x
35	WD											35.5	31.3	106.4	94.7
	1/1.8"											5.4x7.1	4.7x6.2	7.7x10.1	6.5x8.5
	1/2"											4.8x6.4	4.2x5.6	6.9x9.1	5.7x7.6
	Mag.											1.007x	1.147x	0.700x	0.837x
40	WD											97.5	88.3		
	1/1.8"													6.8x8.9	5.8x7.6
	1/2"													6.0x8.0	5.1x6.8
	Mag.													0.800x	0.937x
45	WD											90.5	83.2		
	1/1.8"													6.0x7.9	5.2x6.8
	1/2"													5.3x7.1	4.6x6.2
	Mag.													0.900x	1.037x
50	WD													85.0	78.9
	1/1.8"													5.4x7.1	4.7x6.2
	1/2"													4.8x6.4	4.2x5.6
	Mag.													1.000x	1.137x

Description of the table above

Extension Tube (mm)

Model VS-00000VM

Focal Length (f)

Focus 0.5m~∞

WD 103 130

1/3" 14x19 19x25

1/2" 18x24 24x32

Mag. 0.25x 0.20x

→ Object Distance(mm)

→ The distance between the object and the front of the lens

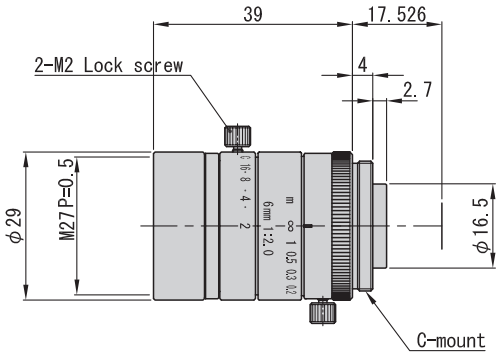
→ FOV with a 1/3" sensor

→ FOV with a 1/2" sensor

→ Optical Magnification

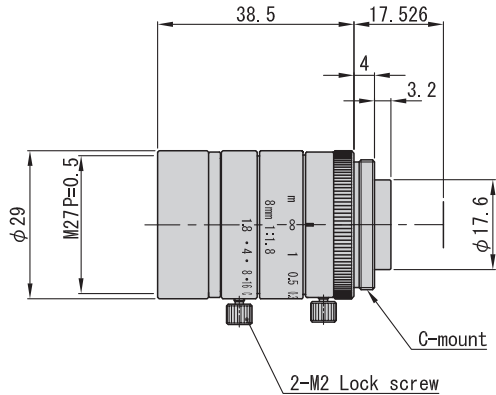
Length of Extension Tube

VS-0620VM



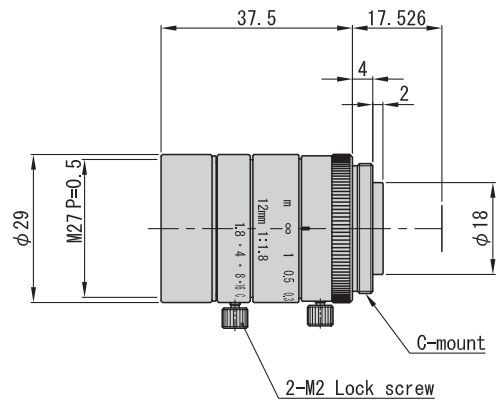
Focal Length (f)	6 mm
Maximum Aperture Ratio	1:2.0
Aperture	F2 ~ Close
Angle of View (1/1.8")	48.4° x 61.9°
M.O.D	100 mm
TV Distortion (1/1.8")	-1.42 %
Operation of Iris & Focus	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 27 P = 0.5
Weight (approx.)	62 g
Dimension	φ29(max.) x L = 39 mm

VS-0818VM



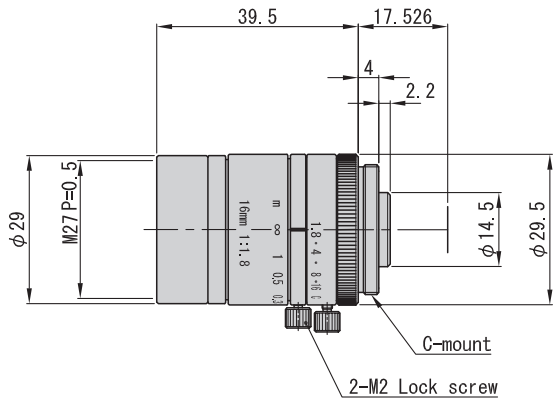
Focal Length (f)	8 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1/1.8")	37.2° x 48.2°
M.O.D	100 mm
TV Distortion (1/1.8")	-1.19 %
Operation of Iris & Focus	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 27 P = 0.5
Weight (approx.)	64 g
Dimension	φ29(max.) x L = 38.5 mm

VS-1218VM



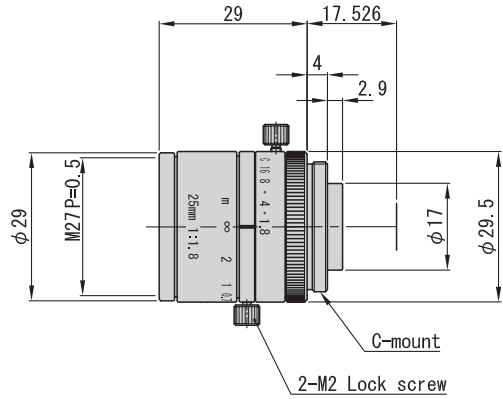
Focal Length (f)	12 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1/1.8")	25° x 32.6°
M.O.D	100 mm
TV Distortion (1/1.8")	-0.19 %
Operation of Iris & Focus	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 27 P = 0.5
Weight (approx.)	60 g
Dimension	φ29(max.) x L = 37.5 mm

VS-1618VM



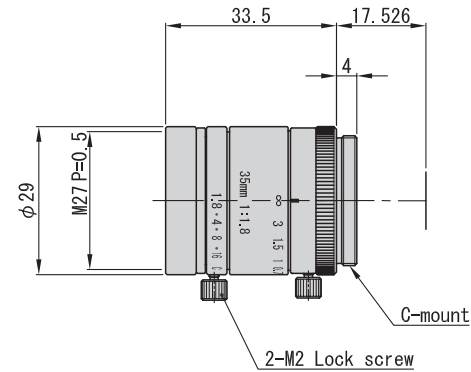
Focal Length (f)	16 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1/1.8")	18.8° x 24.6°
M.O.D	100 mm
TV Distortion (1/1.8")	-0.14 %
Operation of Iris & Focus	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 27 P = 0.5
Weight (approx.)	58 g
Dimension	φ29.5(max.) x L = 39.5 mm

VS-2518VM



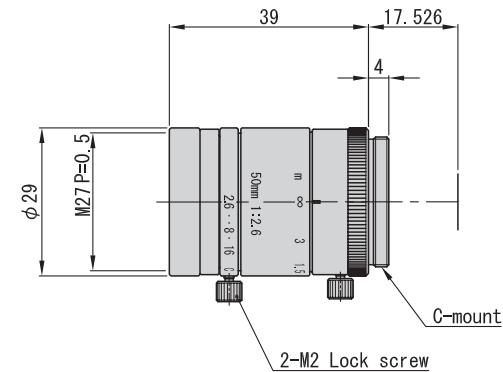
Focal Length (f)	25 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1/1.8")	12.1° x 15.9°
M.O.D	250 mm
TV Distortion (1/1.8")	-0.15 %
Operation of Iris & Focus	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 27 P = 0.5
Weight (approx.)	60 g
Dimension	φ29.5(max.) x L = 29 mm

VS-3518VM



Focal Length (f)	35 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (2/3")	11.7° x 13.8°
M.O.D	250 mm
TV Distortion (2/3")	-0.12 %
Operation of Iris & Focus	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	48 g
Dimension	φ29(max.) x L = 33.5 mm

VS-5026VM



Focal Length (f)	50 mm
Maximum Aperture Ratio	1:2.6
Aperture	F2.6 ~ Close
Angle of View (2/3")	8.1° x 9.6°
M.O.D	400 mm
TV Distortion (2/3")	0.01 %
Operation of Iris & Focus	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	54 g
Dimension	φ29(max.) x L = 39 mm

SV-H Series 2/3" 1/1.8"

The SV-H series' focus of delivering a high resolution, makes it an excellent choice for cameras that utilize up to 2/3" sensors. The bright F number helps illuminate the view even in a poorly lit environment. Designed to suit a large range of working distances, the iris and focus are adjustable, making this series well prepared for almost any application.

- Features
- 2/3" sensor support
 - 13 models available
 - Focal length 6 - 100mm
 - F1.4 brightness
 - High Resolution
 - All models filter-ready



Table for WD, FOV and Extension Tube Length

Extension Tube (mm)	Model Focal Length	SV-0614H	SV-0814H	SV-1214H	SV-1614H	SV-2514H	SV-3514H	SV-5014H	SV-5026H	SV-7525H	SV-10028H
		f6	f8	f12	f16	f25	f35	f50	f50	f75	f100
0	Focus	∞~100	∞~100	∞~100	∞~100	∞~150	∞~200	∞~300	∞~500	∞~1200	∞~2000
	WD	100	100	100	100	150	200	300	500	1200	2000
	2/3"	134.0x158.5	101.4x120.0	68.9x81.6	52.2x61.8	47.7x56.4	42.0x49.7	42.3x50.0	65.7x77.8	102.9x121.7	136.5x161.5
	1/2"	90.6x120.8	68.6x91.4	46.6x62.1	35.3x47.1	32.2x43.0	28.4x37.9	28.6x38.1	44.4x59.3	69.6x92.8	92.3x123.1
0.5	Mag.	0.053x	0.070x	0.103x	0.136x	0.149x	0.169x	0.168x	0.108x	0.069x	0.052x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
1	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
1.5	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
2	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
5	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
10	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
15	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
20	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
25	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
30	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
35	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
40	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
45	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9
50	Mag.	0.082x	0.135x	0.063x	0.133x	0.041x	0.144x	0.031x	0.167x	0.020x	0.169x
	WD	58.8	29.6	112.5	45.7	280.5	67.2	503.0	79.7	1232.0	133.8
	2/3"	86.6x102.4	52.6x62.2	112.7x133.3	53.4x63.2	173.2x204.9	49.3x58.3	229.0x271.0	42.5x50.3	355.0x420.0	42.0x49.7
	1/2"	58.5x78.0	35.6x47.4	76.2x101.6	36.1x48.1	117.1x156.1	33.3x44.4	154.8x206.5	28.7x38.3	240.0x320.0	28.4x37.9

Description of the table above

Extension Tube (mm)

Model Focal Length

SV-○○○○○H

Focus

0.5m~∞

Object Distance(mm)

WD

103

130

The distance between the object and the front of the lens

1/3"

14x19

19x25

FOV with a 1/3" sensor

1/2"

18x24

24x32

FOV with a 1/2" sensor

Mag.

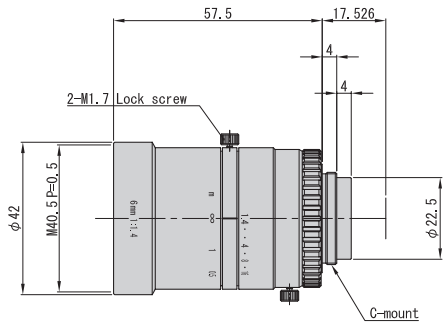
0.25x

0.20x

Optical Magnification

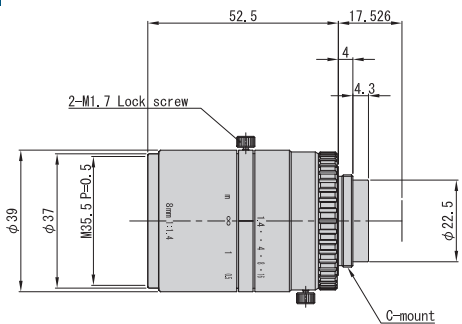
Length of Extension Tube

SV-0614H



Focal Length (f)	6 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	60.3° x 69.0°
M.O.D	100 mm
TV Distortion (2/3")	-0.06 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 40.5 P = 0.5
Weight (approx.)	142 g
Dimension	φ42(max.) x L = 57.5 mm

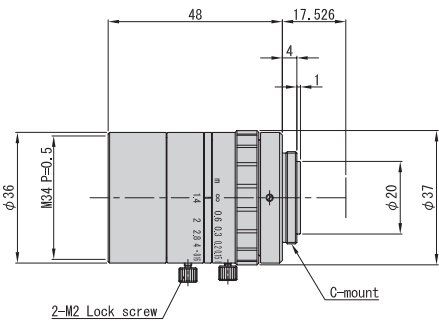
SV-0814H



Focal Length (f)	8 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	47.9° x 55.4°
M.O.D	100 mm
TV Distortion (2/3")	0.10 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 35.5 P = 0.5
Weight (approx.)	124 g
Dimension	φ39(max.) x L = 52.5 mm

SV-1214HF

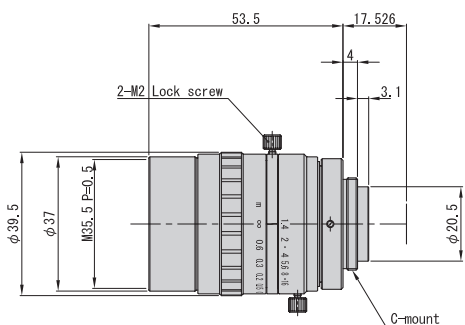
Floating System



Focal Length (f)	12 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	33.4° x 39.1°
M.O.D	100 mm
TV Distortion (2/3")	0.04 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 34 P = 0.5
Weight (approx.)	112 g
Dimension	φ37(max.) x L = 48 mm

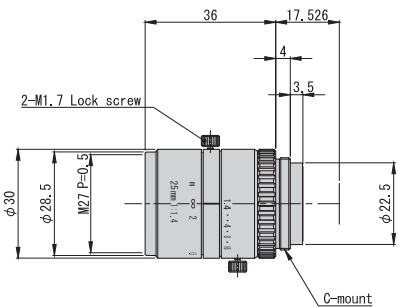
SV-1614HF

Floating System



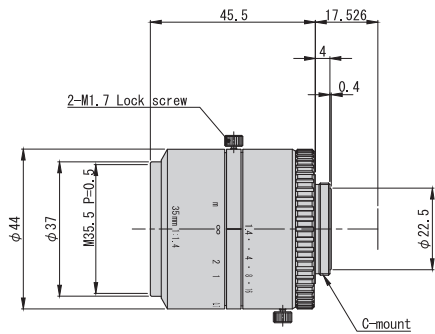
Focal Length (f)	16 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	24.5° x 28.9°
M.O.D	100 mm
TV Distortion (2/3")	-0.18 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 35.5 P = 0.5
Weight (approx.)	124 g
Dimension	φ39.5(max.) x L = 53.5 mm

SV-2514H



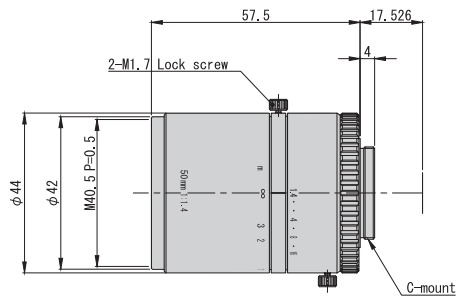
Focal Length (f)	25 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	16.2° x 19.1°
M.O.D	150 mm
TV Distortion (2/3")	-0.06 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	60 g
Dimension	φ30(max.) x L = 36 mm

SV-3514H



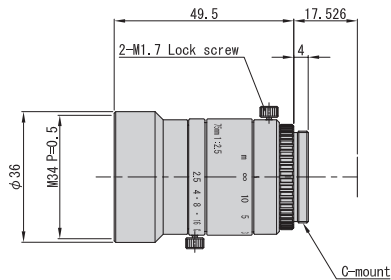
Focal Length (f)	35 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	11.6° x 13.7°
M.O.D	200 mm
TV Distortion (2/3")	-0.13 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 35.5 P = 0.5
Weight (approx.)	142 g
Dimension	φ44(max.) x L = 45.5 mm

SV-5014H



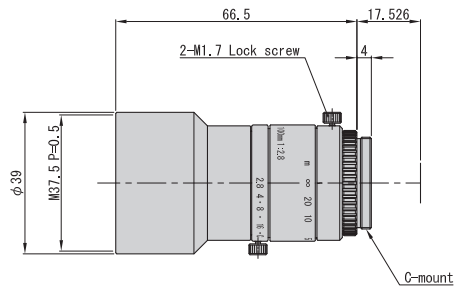
Focal Length (f)	50 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	8.1° x 9.6°
M.O.D	300 mm
TV Distortion (2/3")	0.02 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 40.5 P = 0.5
Weight (approx.)	165 g
Dimension	φ44(max.) x L = 57.5 mm

SV-7525H



Focal Length (f)	75 mm
Maximum Aperture Ratio	1:2.5
Aperture	F2.5 ~ Close
Angle of View (1")	8.6° x 8.6°
M.O.D	1200 mm
TV Distortion (1")	0.05 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 34 P = 0.5
Weight (approx.)	84 g
Dimension	φ36(max.) x L = 49.5 mm

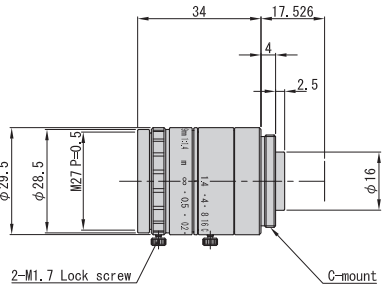
SV-10028H



Focal Length (f)	100 mm
Maximum Aperture Ratio	1:2.8
Aperture	F2.8 ~ Close
Angle of View (1")	6.6° x 6.6°
M.O.D	2000 mm
TV Distortion (1")	0.08 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 37.5 P = 0.5
Weight (approx.)	104 g
Dimension	φ39(max.) x L = 66.5 mm

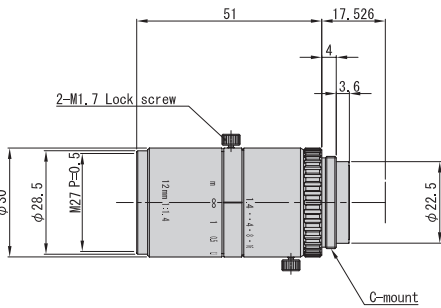
■ Megapixel Compact Model

SV-0914H



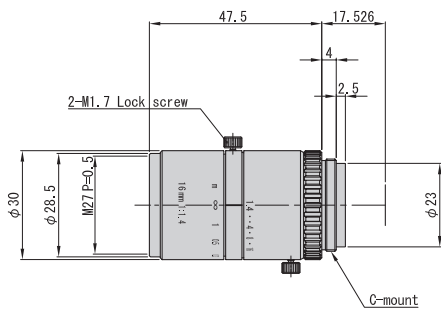
Focal Length (f)	9mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ Close
Angle of View (2/3")	43.4° x 51.0°
M.O.D	100 mm
TV Distortion (2/3")	-1.94 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17.526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	54 g
Dimension	φ29.5(max.) x L = 34 mm

SV-1214H



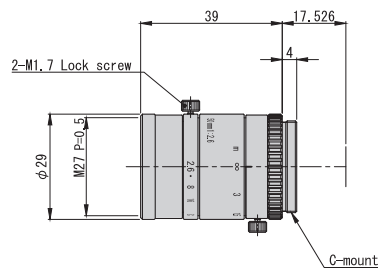
Focal Length (f)	12 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	32.4° x 37.9°
M.O.D	100 mm
TV Distortion (2/3")	0.06 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17.526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	80 g
Dimension	φ30(max.) x L = 51 mm

SV-1614H



Focal Length (f)	16 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (2/3")	24.8° x 29.2°
M.O.D	100 mm
TV Distortion (2/3")	-0.16 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17.526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	76 g
Dimension	φ30 (max.) x L = 47.5 mm

SV-5026H



Focal Length (f)	50 mm
Maximum Aperture Ratio	1:2.6
Aperture	F2.6 ~ Close
Angle of View (2/3")	8.1° x 9.6°
M.O.D	500 mm
TV Distortion (2/3")	0.01 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17.526 mm
Sensor Size (max.)	2/3"
Filter Thread	M 27 P = 0.5
Weight (approx.)	54 g
Dimension	φ29(max.) x L = 39 mm

10MP Fixed Focal Length Lens

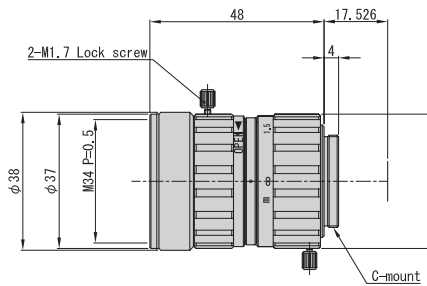
VS-1628H10M **2/3"** **1/1.8"**

This particular lens was specifically made to deliver the most optimal resolution for any camera supporting up to a 2/3" sensor. Its 200Lp/mm resolution is maintained from the center of the lens, to its very edge. With reduced shading and distortion, in terms of resolution, this lens simply cannot be beaten.



Features

- 2/3" sensor support
- 200Lp/mm resolution
- 10MP
- Reduced Shading
- Minimized Distortion

VS-1628H10M

Focal Length (f)	16 mm
Maximum Aperture Ratio	1:2.8
Aperture	F2.8 ~ 22
Angle of view (2/3")	24.9° x 29.3°
M.O.D	350 mm
TV distortion (2/3")	-0.02 %
Operation	Manual (Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange back	17.526 mm
Sensor size (max.)	2/3"
Filter Thread	M 34 P = 0.5
Weight (approx.)	106 g
Dimension	φ38(max.) x L = 48 mm

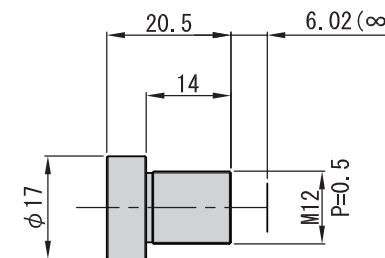
Lens for S-Mount Board Cameras

VS-B Series

The VS-B series features an S-mount capable lens compactly designed for use with board cameras.

Features

- 1/2" sensor support
- S - Mount

**VS-B0624H**

Focal Length	6 mm
Maximum Aperture Ratio	1:2.4
Angle of view (1/2")	43.5° x 56.0°
Back Focus	6.96 mm
Mechanical back	6.02 mm
Mount	M 12 P = 0.5
TV distortion (1/2")	-2.71 %
Sensor size (max.)	1/2"
Weight (approx.)	8 g
Dimension	φ17 (max.) x L = 20.5 mm

1" Fixed Focal Length Lenses

VS-H1 Series 1" 1/1.2"

The upgraded version of our SV-H series to increase the sensor size support to 1". With its high resolution it is very effective for a large variety of machine vision applications. A core focus of the design was to minimize distortion while maintaining a high contrast in order to deliver the best possible image by a fixed focal length lens.

- Features
- 1" sensor support
 - 9 models available
 - Focal length 6 - 100mm
 - F1.4 brightness
 - Low Distortion
 - High Contrast



Table for WD, FOV and Extension Tube Length

Extension Tube (mm)	Model Focal Length	VS-1214H1		VS-1614H1N		VS-2514H1		VS-3514H1		VS-5018H1	
		f12	f16	f12	f16	f25	f35	f35	f50	f50	f50
	Focus	∞~300	∞~300	∞~300	∞~300	∞~300	∞~300	∞~300	∞~300	∞~500	∞~500
0	WD	300	300	300	300	300	300	300	300	500	500
	1"	296.3x296.3	212.5x212.5	137.3x137.3	95.4x95.4	111.5x111.5	70.3x83.2	70.3x83.2	70.3x83.2	70.3x83.2	70.3x83.2
	2/3"	186.8x221.1	134.0x158.5	86.6x102.4	60.2x71.2	60.2x71.2	60.2x71.2	60.2x71.2	60.2x71.2	60.2x71.2	60.2x71.2
	Mag.	0.038x	0.053x	0.082x	0.118x	0.118x	0.118x	0.118x	0.118x	0.101x	0.101x
0.5	WD	277.3	134.0	521.3	187.6	1262.1	240.3	2508.7	267.8	4997.4	454.6
	1"	274.6x274.6	140.8x140.8	363.2x363.2	134.0x134.0	563.0x563.0	110.4x110.4	804.3x804.3	85.3x85.3	1126.0x1126.0	101.4x101.4
	2/3"	173.2x204.9	88.8x105.0	229.0x271.0	84.5x100.0	355.0x420.0	69.6x82.4	507.1x600.0	53.8x63.6	710.0x840.0	64.0x75.7
	Mag.	0.041x	0.080x	0.031x	0.084x	0.020x	0.102x	0.014x	0.132x	0.010x	0.111x
1	WD	128.5	82.9	261.2	136.3	642.9	199.5	1255.3	242.3	2501.1	417.4
	1"	135.7x135.7	93.1x93.1	184.6x184.6	98.8x98.8	288.7x288.7	92.3x92.3	402.1x402.1	77.1x77.1	563.0x563.0	93.1x93.1
	2/3"	85.5x101.2	58.7x69.4	116.4x137.7	62.3x73.7	182.1x215.4	58.2x68.9	253.6x300.0	48.6x57.5	355.0x420.0	58.7x69.4
	Mag.	0.083x	0.121x	0.061x	0.114x	0.039x	0.122x	0.028x	0.146x	0.020x	0.121x
1.5	WD	80.5	57.7	170.7	105.6	421.9	171.4	818.1	221.2	1669.0	385.9
	1"	90.8x90.8	69.5x69.5	122.4x122.4	77.7x77.7	190.8x190.8	79.9x79.9	261.9x261.9	70.4x70.4	375.3x375.3	86.0x86.0
	2/3"	57.3x67.7	43.8x51.9	77.2x91.3	49.0x57.9	120.3x142.4	50.4x59.6	165.1x195.3	44.4x52.5	236.7x280.0	54.2x64.1
	Mag.	0.124x	0.162x	0.092x	0.145x	0.059x	0.141x	0.043x	0.160x	0.030x	0.131x
2	WD	55.9	42.4	126.9	86.2	312.9	149.0	617.6	202.4	1253.0	358.9
	1"	67.8x67.8	55.2x55.2	92.3x92.3	64.3x64.3	142.5x142.5	69.9x69.9	197.5x197.5	64.3x64.3	281.5x281.5	79.9x79.9
	2/3"	42.8x50.6	34.8x41.2	58.2x68.9	40.6x48.0	89.9x106.3	44.1x52.2	124.6x147.4	40.6x48.0	177.5x210.0	50.4x59.6
	Mag.	0.166x	0.204x	0.122x	0.175x	0.079x	0.161x	0.057x	0.175x	0.040x	0.141x
5	WD			46.3	38.3	120.1	82.2	249.1	136.9	504.1	253.2
	1"			36.9x36.9	31.5x31.5	57.2x57.2	40.4x40.4	79.3x79.3	43.3x43.3	112.6x112.6	56.0x56.0
	2/3"			23.3x27.5	19.8x23.5	36.0x42.6	25.4x30.1	50.0x59.2	27.3x32.3	71.0x84.0	35.3x41.8
	Mag.			0.305x	0.358x	0.197x	0.279x	0.142x	0.260x	0.100x	0.201x
10	WD					55.8	44.5	125.0	89.0	254.4	170.7
	1"					28.7x28.7	23.7x23.7	39.5x39.5	27.9x27.9	56.3x56.3	37.4x37.4
	2/3"					18.1x21.4	14.9x17.6	24.9x29.5	17.6x20.8	35.5x42.0	23.6x27.9
	Mag.					0.393x	0.476x	0.285x	0.403x	0.200x	0.301x
15	WD							84.1	66.3	171.2	129.3
	1"							26.4x26.4	20.7x20.7	37.5x37.5	28.1x28.1
	2/3"							16.6x19.7	13.0x15.4	23.7x28.0	17.7x20.9
	Mag.							0.427x	0.545x	0.300x	0.401x
20	WD							63.5	52.9	129.3	104.5
	1"							19.8x19.8	16.4x16.4	28.1x28.1	22.5x22.5
	2/3"							12.5x14.7	10.3x12.2	17.7x20.9	14.2x16.8
	Mag.							0.570x	0.688x	0.401x	0.501x
25	WD							51.2	44.2	104.5	87.8
	1"							15.8x15.8	13.6x13.6	22.5x22.5	18.7x18.7
	2/3"							10.0x11.8	8.6x10.1	14.2x16.8	11.8x14.0
	Mag.							0.712x	0.830x	0.501x	0.602x
30	WD							42.9	38.0	87.9	75.9
	1"							13.2x13.2	11.6x11.6	18.7x18.7	16.0x16.0
	2/3"							8.3x9.8	7.3x8.6	11.8x14.0	10.1x12.0
	Mag.							0.855x	0.973x	0.601x	0.702x
35	WD							37.1	33.4	76.0	67.1
	1"							11.3x11.3	10.1x10.1	16.1x16.1	14.0x14.0
	2/3"							7.1x8.4	6.4x7.5	10.1x12.0	8.9x10.5
	Mag.							0.997x	1.115x	0.701x	0.802x
40	WD									67.1	60.2
	1"									14.1x14.1	12.5x12.5
	2/3"									8.9x10.5	7.9x9.3
	Mag.									0.801x	0.902x
45	WD									60.2	54.6
	1"										
	2/3"										
	Mag.										
50	WD										
	1"										
	2/3"										
	Mag.										

Description of the table above

Extension Tube (mm)

Model Focal Length

SV-○○○○○H1 (f)

5	Focus	0.5m~∞	
	WD	103	130
	1"	14x19	19x25
	2/3"-5M	18x24	24x32
↓	Mag.	0.25x	0.20x

→ Object Distance(mm)

→ The distance between the object and the front of the lens

→ FOV with a 1/3" sensor

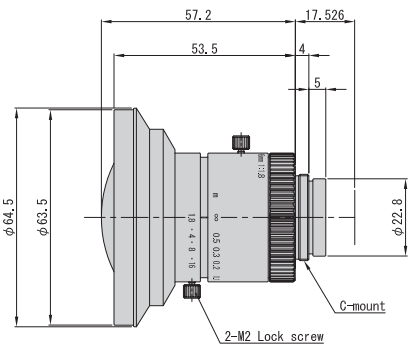
→ FOV with a 1/2" sensor

→ Optical Magnification

Length of Extension Tube

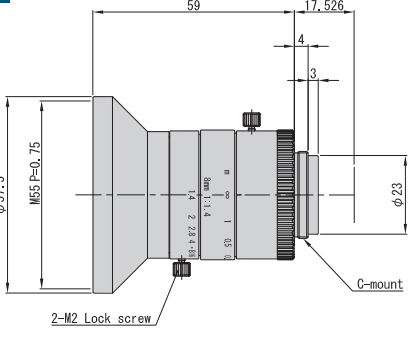
VS-0618H1

Floating System



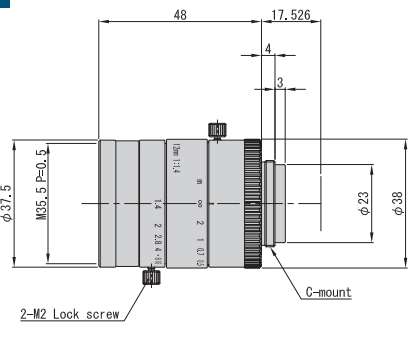
Focal Length (f)	6 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ 16
Angle of View (1")	87.3° x 87.3°
M.O.D	100 mm
TV Distortion (1")	-0.61 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Weight (approx.)	205 g
Dimension	φ64.5(max.) x L = 57.2 mm

VS-0814H1N



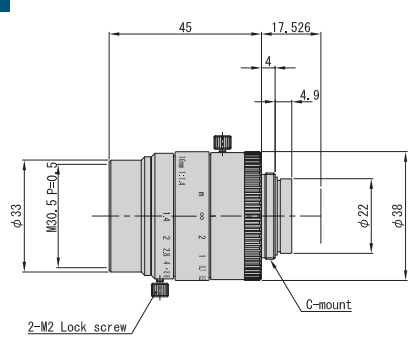
Focal Length (f)	8 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (1")	72.7° x 72.7°
M.O.D	100 mm
TV Distortion (1")	-0.35 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 55 P = 0.75
Weight (approx.)	185 g
Dimension	φ57.5(max.) x L = 59 mm

VS-1214H1



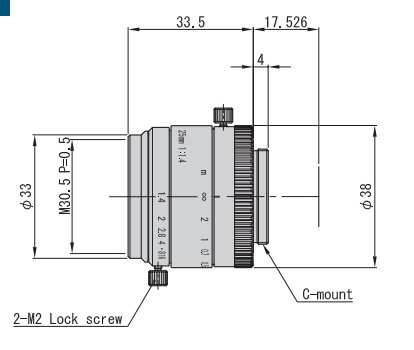
Focal Length (f)	12 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (1")	50.8° x 50.8°
M.O.D	300 mm
TV Distortion (1")	-0.32 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 35.5 P = 0.5
Weight (approx.)	130 g
Dimension	φ38(max.) x L = 48 mm

VS-1614H1N



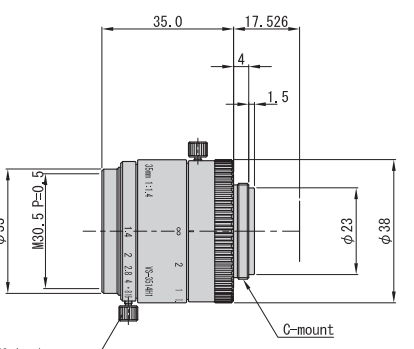
Focal Length (f)	16 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (1")	38.6° x 38.6°
M.O.D	300 mm
TV Distortion (1")	-0.65 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	120 g
Dimension	φ38(max.) x L = 45 mm

VS-2514H1



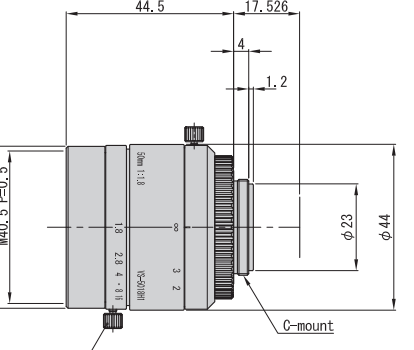
Focal Length (f)	25 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (1")	25.1° x 25.1°
M.O.D	300 mm
TV Distortion (1")	-0.46 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	84 g
Dimension	φ38(max.) x L = 33.5 mm

VS-3514H1



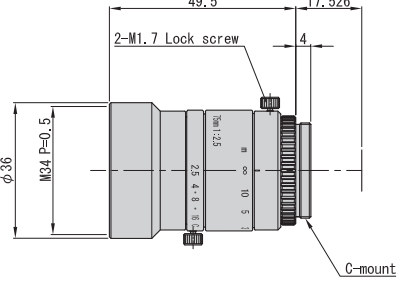
Focal Length (f)	35 mm
Maximum Aperture Ratio	1:1.4
Aperture	F1.4 ~ 16
Angle of View (1")	18.3° x 18.3°
M.O.D	300 mm
TV Distortion (1")	-0.31 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	92 g
Dimension	φ38(max.) x L = 35 mm

VS-5018H1



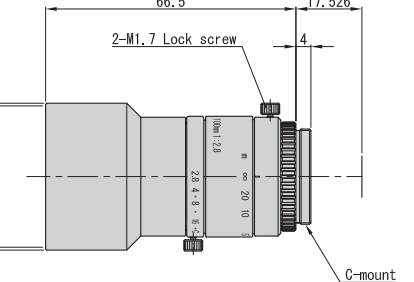
Focal Length (f)	50 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ 16
Angle of View (1")	12.8° x 12.8°
M.O.D	500 mm
TV Distortion (1")	-0.01 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 40.5 P = 0.5
Weight (approx.)	128 g
Dimension	φ44(max.) x L = 44.5 mm

SV-7525H



Focal Length (f)	75 mm
Maximum Aperture Ratio	1:2.5
Aperture	F2.5 ~ Close
Angle of View (1")	8.6° x 8.6°
M.O.D	1200 mm
TV Distortion (1")	0.05 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 34 P = 0.5
Weight (approx.)	84 g
Dimension	φ36(max.) x L = 49.5 mm

SV-10028H



Focal Length (f)	100 mm
Maximum Aperture Ratio	1:2.8
Aperture	F2.8 ~ Close
Angle of View (1")	6.6° x 6.6°
M.O.D	2000 mm
TV Distortion (1")	0.08 %
Operation	Manual(Lock screw M1.7)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1"
Filter Thread	M 37.5 P = 0.5
Weight (approx.)	104 g
Dimension	φ39(max.) x L = 66.5 mm

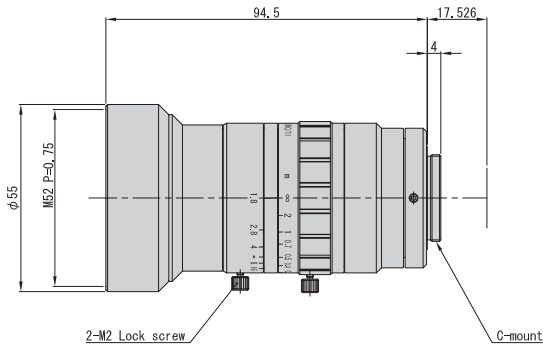
VS-H-IRC/11 Series 1.1" 1" 1/1.2"

Supports 1.1", 12MP and 4K resolution. IR-Corrected, minimize focus shift from visible to NIR.

- Features
- Supports 12MP, 1.1" format and 3.45um
 - 3 models available
 - Focal length 12-25mm
 - IR-Corrected, minimize focus shift from visible to NIR

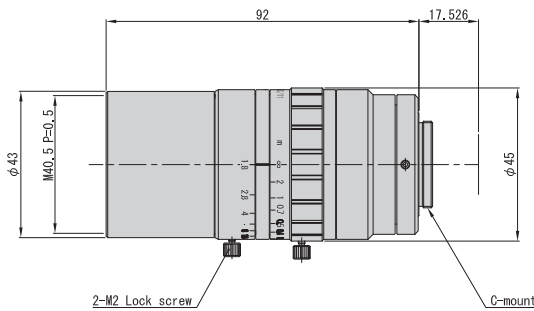


VS-H1218-IRC/11



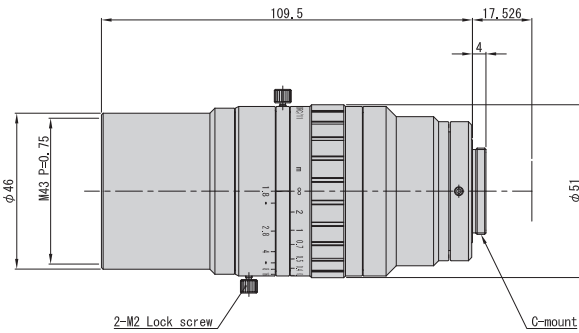
Focal Length (f)	12 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1.1")	46.3° x 61.4°
M.O.D	300 mm
TV Distortion (1.1")	-1.37 %
Operation	Manual(Lock screw M2)
Wavelength	Visible ~ 850nm
Mount	C-Mount
Flange Back	17.526 mm
Sensor Size (max.)	1.1"
Filter Thread	M 52 P = 0.75
Weight (approx.)	340 g
Dimension	φ55(max.) x L = 94.5 mm

VS-H1618-IRC/11



Focal Length (f)	16 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1.1")	36.0° x 48.7°
M.O.D	300 mm
TV Distortion (1.1")	-1.95 %
Operation	Manual(Lock screw M2)
Wavelength	Visible ~ 850nm
Mount	C-Mount
Flange Back	17.526 mm
Sensor Size (max.)	1.1"
Filter Thread	M 40.5 P = 0.5
Weight (approx.)	290 g
Dimension	φ45(max.) x L = 92 mm

VS-H2518-IRC/11



Focal Length (f)	25 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1.1")	23.3° x 31.7°
M.O.D	300 mm
TV Distortion (1.1")	-1.00 %
Operation	Manual(Lock screw M2)
Wavelength	Visible ~ 850nm
Mount	C-Mount
Flange Back	17.526 mm
Sensor Size (max.)	1.1"
Filter Thread	M 43 P = 0.75
Weight (approx.)	390 g
Dimension	φ51(max.) x L = 109.5 mm

Visible Lens

With Blue Lighting

VS Technology Corporation
Head Office
1-9-19 Azabudai, Minato-ku, Tokyo 106-0041, Japan
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https://vst.co.jp/ info@vst.co.jp

VST Europe AG
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TEL: +41-52-508-0109

VST Europe B.V.
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With IR Lighting

VS-H-IRC/11 SERIES

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Minimize focus shift

Fixed Focal Length Lenses with F0.85

VS-085 Series 4/3" 1.1" 1" 1/1.2"

High-speed cameras can best utilize the VS-085 series due to its immensely bright F number of 0.85. Up to 4/3" sensors are supported as well as C and M42 mounts. An internally constructed floating system of lens elements allows the lens to produce a low distortion, high contrast image at any magnification.

Features

- 4/3" sensor support
- F0.85 brightness
- C & M42 mount
- Low Distortion
- High Contrast

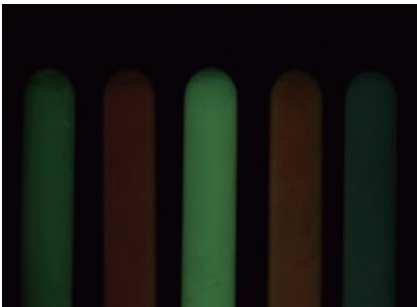


VS-25085 : Open Aperture



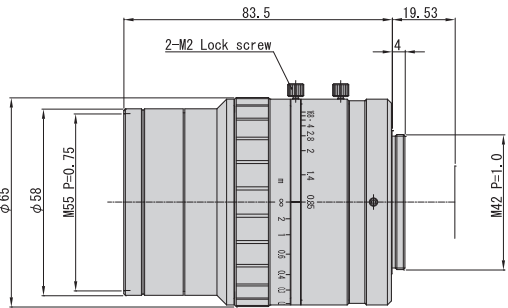
VS Technology

Standard CCTV lens : Open Aperture



VS Technology

VS-25085/M42 Floating System

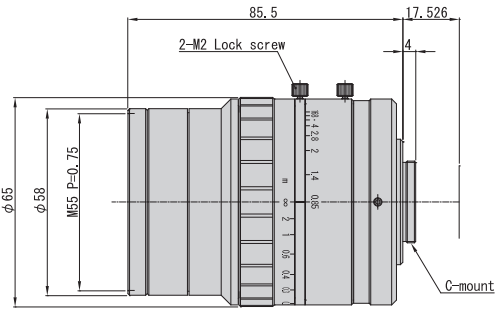


Focal Length (f)	25 mm
Maximum Aperture Ratio	1:0.85
Aperture	F0.85 ~ 16
Angle of View (4/3")	30.3° x 40.0°
M.O.D	170 mm
TV Distortion (4/3")	-1.21 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	M 42 P = 1.0
Flange Back	19.53 mm
Sensor Size (max.)	4/3"
Filter Thread	M 55 P = 0.75
Weight (approx.)	570 g
Dimension	φ65(max.) x L = 83.5 mm

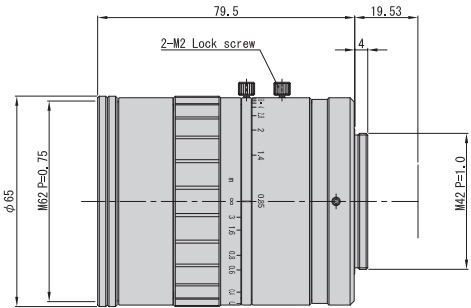
※C-mount's maximum aperture ratio is 1:090

VS-25085/C Floating System

BTO



VS-50085/M42 Floating System

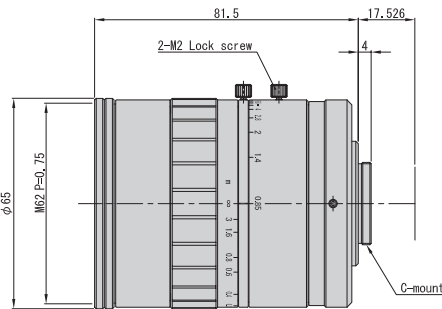


Focal Length (f)	50 mm
Maximum Aperture Ratio	1:0.85
Aperture	F0.85 ~ 16
Angle of View (4/3")	15.9° x 21.0°
M.O.D	240 mm
TV Distortion (4/3")	-0.30 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	M 42 P = 1.0
Flange Back	19.53 mm
Sensor Size (max.)	4/3"
Filter Thread	M 62 P = 0.75
Weight (approx.)	610 g
Dimension	φ65(max.) x L = 79.5 mm

※C-mount's maximum aperture ratio is 1:090

VS-50085/C Floating System

BTO



Megapixel Lenses for 3CMOS cameras

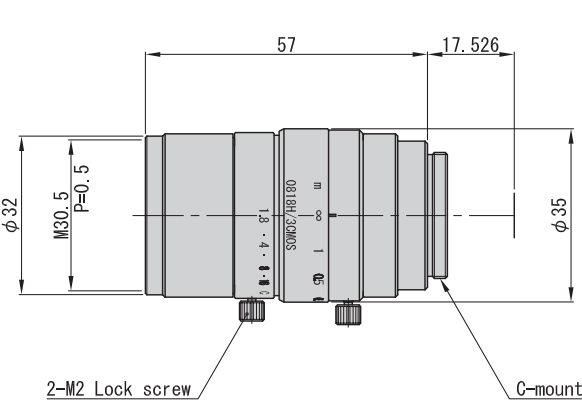
VS-H/3CMOS Series 1/1.8"

Designed for multi sensor 3 CMOS cameras.

- Features
- 1/1.8", 3.2MP and 3.45um sensor support
 - 3 models available
 - Focal length 8-25mm

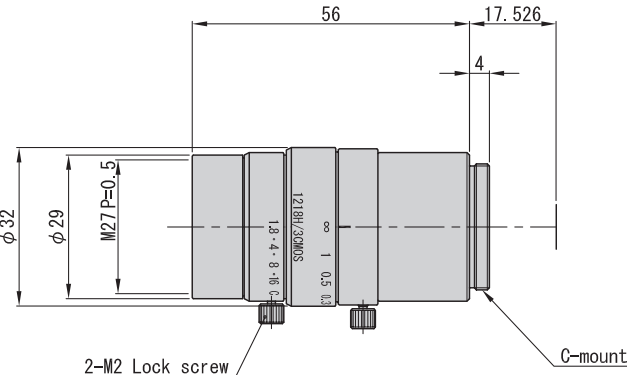


VS-0818H/3CMOS



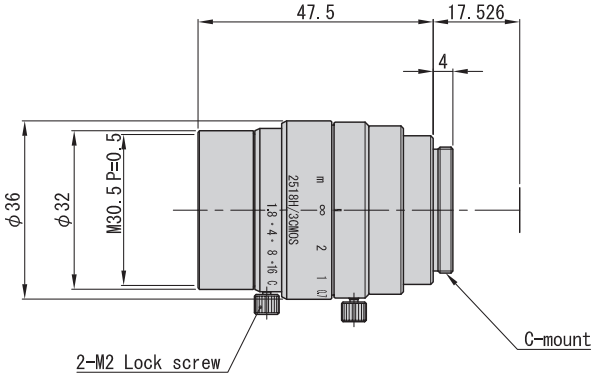
Focal Length (f)	8 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1/1.8")	36.6° x 47.3°
M.O.D	100 mm
TV Distortion (1/1.8")	-0.81 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	110 g
Dimension	φ35(max.) x L = 57 mm

VS-1218H/3CMOS



Focal Length (f)	12 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1/1.8")	25.4° x 33.2°
M.O.D	150 mm
TV Distortion (1/1.8")	-0.80 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 27 P = 0.5
Weight (approx.)	94 g
Dimension	φ32(max.) x L = 56 mm

VS-2518H/3CMOS



Focal Length (f)	25 mm
Maximum Aperture Ratio	1:1.8
Aperture	F1.8 ~ Close
Angle of View (1/1.8")	12.2° x 16.0°
M.O.D	200 mm
TV Distortion (1/1.8")	-0.16 %
Operation	Manual(Lock screw M2)
Wavelength	Visible
Mount	C-Mount
Flange Back	17526 mm
Sensor Size (max.)	1/1.8"
Filter Thread	M 30.5 P = 0.5
Weight (approx.)	100 g
Dimension	φ36(max.) x L = 47.5 mm

Sample Image with single CMOS camera



Sample Image with 3 CMOS camera

