

# SLA-3580DN/2985D/2810D/550D

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## 1/3" Auto Iris Varifocal Lens

### Overview

A Varifocal lens allows the installer to adjust the field of view (zoom) to meet the needs of the application. Unlike a motorized zoom lens, a varifocal lens cannot be remotely adjusted. The advantage of the varifocal is that it is much lower cost than a zoom lens. The SLA series of varifocal lenses are high quality IR corrected auto iris lenses that are well suited for use with the high resolution Samsung Techwin cameras. The SLA-3580DN utilizes special low dispersion glass elements developed by Samsung Techwin specifically for Day & Night use. All of these lenses feature high optical performance without the ghosting or aberrations found in or binary varifocal lenses.

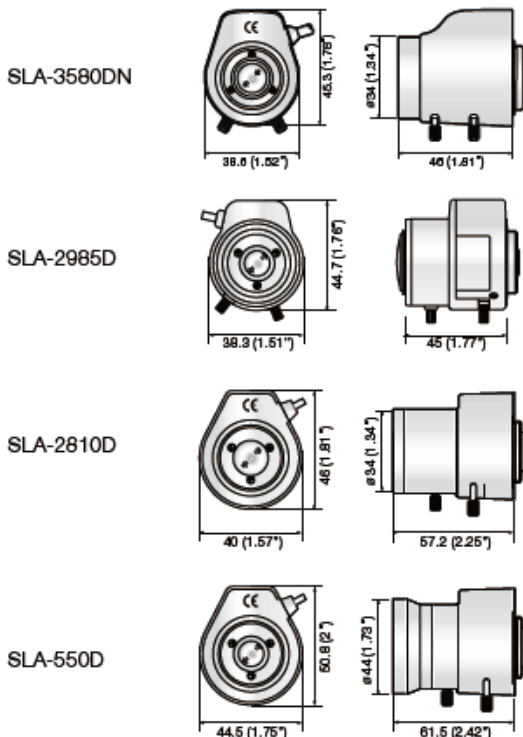


### Features

- F1.0 (SLA-3580DN), F1.4 (SLA-2810D)  
F1.2 (SLA-2985D), F1.8 (SLA-550D) DC Type auto Iris
- Varifocal 3.5 ~ 8mm / 0.14" ~ 0.31" (SLA-3580DN)  
2.9 ~ 8.5mm / 0.11" ~ 0.33" (SLA-2985D)  
2.8 ~ 10mm / 0.11" ~ 0.39" (SLA-2810D)  
5~50mm / 0.2" ~ 1.97" (SLA-550D)
- Excellent low light performance
- Simple to install and adjust
- High quality, compact design

### Dimensions









Unit : mm (inch)



### Technical Specifications

	SLA-3580DN	SLA-2985D	SLA-2810D	SLA-550D	
<b>Focal Length</b>	3.5 ~ 8mm 0.14" ~ 0.31"	2.9 ~ 8.5mm 0.11" ~ 0.33"	2.8 ~ 10mm 0.11" ~ 0.39"	5 ~ 50mm 0.2" ~ 1.97"	
<b>Max. Aperture Ratio</b>	1 : 1.0 ~ 360	1 : 1.2 ~ 360	1 : 1.4 ~ 360	1 : 1.8 ~ 360	
<b>Max. Image Format</b>	4.8(H) x 3.6(V)				
<b>Operation</b>	Iris	Auto (F1.0 ~ 360)	Auto (F1.2 ~ 300)	Auto (F1.4 ~ 360)	
	Focus	Manual			
	Zoom	Manual			
<b>Angle of View</b>	Diagonal	111.2° ~ 44.7°	123.4° ~ 41.8°	115.8° ~ 35.3°	64.2° ~ 6.9°
	Horizontal	83.5° ~ 35.8°	98.2° ~ 33.4°	93.7° ~ 28.3°	51.7° ~ 5.5°
	Vertical	60.4° ~ 26.6°	70.7° ~ 25.1°	70.6° ~ 21.2°	38.9° ~ 4.1°
<b>Iris Type</b>	DC				
<b>Effective Lens</b>	Front	Ø17.5mm Ø0.69"	Ø21.14mm Ø0.83"	Ø20.5mm Ø0.81"	Ø37.7mm Ø1.48"
	Rear	Ø8.6mm Ø0.37"	Ø8.44mm Ø0.33"	Ø8.8mm Ø0.35"	Ø9mm Ø0.39"
<b>Back Focal Length</b>	8.7 ~ 14.7mm 0.34" ~ 0.58"	7.95 ~ 15.3mm 0.31" ~ 0.6"	7.8 ~ 17mm 0.3" ~ 0.67"	7.6 ~ 11mm 0.3" ~ 0.43"	
<b>Flange Back Length</b>	12.5mm / 0.49"				
<b>Mount</b>	CS-mount				
<b>Dimensions (WxDxH)</b>	38.8 x 45.3 x 48mm (1.52" x 1.78" x 1.81")	38.3 x 44.7 x 45mm (1.51" x 1.76" x 1.77")	40 x 48 x 57.2mm (1.57" x 1.81" x 2.25")	44.5 x 50.8 x 61.5mm (1.75" x 2" x 2.42")	
<b>Weight</b>	54.5g (0.12 lb)	50g (0.11 lb)	65g (0.14 lb)	140g (0.31 lb)	

# Lens Selection

Lens Description	Model	Image	Mount	Image Format	Resolution	Focal Length	Back Focal Length	Zoom Ratio	F. No	Minimum Angle of View	Operation			Dimensions (WxHxD)mm / inch	Weight (g / lb)
											Iris	Focus	Zoom		
Zoom Lens	SLA-12240		C	1/2"	1.3Megapixel	12 ~ 240mm 0.47" ~ 9.45"	19.82mm 0.78"	20	1.6	38.9° ~ 1.9°	Auto	Motorized	Motorized	116.0 x 135.0 x 223.5mm 4.57" x 5.31" x 8.8"	2.6Kg 5.73 lb
	SLA-880					8 ~ 80mm 0.31" ~ 3.14"	15.3mm 0.6"	10	1.2	54.3° ~ 5.8°				70.0 x 81.0 x 123.5mm 2.76" x 3.19" x 4.86"	670g 1.48 lb
Varifocal Lens	SLA-3580DN		CS	1/3"	VGA	3.5 ~ 8mm 0.14" ~ 0.31"	8.7 ~ 14.7mm 0.34" ~ 0.58"	2.3	1.0	111.2° ~ 44.7°	DC	Manual	Manual	38.6 x 45.3 x 46.0mm 1.52" x 1.78" x 1.81"	54.5g 0.12 lb
	SLA-2810D					2.8 ~ 10mm 0.11" ~ 0.39"	7.8 ~ 17mm 0.3" ~ 0.67"	3	1.4	115.8° ~ 35.8°				40.0 x 46.0 x 57.2mm 1.57" x 1.81" x 2.25"	65g 0.14 lb
	SLA-550DA					5 ~ 50mm 0.2" ~ 1.97"	7.6 ~ 11.5mm 0.3" ~ 0.45"	10	1.4	65.7° ~ 7.2°				44.5 x 50.8 x 66.2mm 1.75" x 2" x 2.61"	126g 0.28 lb
	SLA-612DN			1/2"	1.3Megapixel	6 ~ 12mm 0.24" ~ 0.47"	7.55 ~ 12.13mm 0.3" ~ 0.48"	2	1.6	81.4° ~ 38.8°				40.4 x 45.7 x 43.5mm 1.6" x 1.8" x 1.71"	53g 0.12 lb
	SLA-M2882					1/3"	2.8 ~ 8.2mm 0.11" ~ 0.32"	7.97 ~ 14.12mm 0.31" ~ 0.56"	2.9	1.4				116.5° ~ 42.4°	43.8 x 48.1 x 52.0mm 1.72" x 1.89" x 2.05"
	SLA-M3180DN			1/2.8"	3Megapixel	3.1 ~ 8mm 0.12" ~ 0.31"	7.8mm 0.31"	2.6	1.2	123.1° ~ 48.3°				43.8 x 48.2 x 55.0mm 1.72" x 1.90" x 2.17"	59g 0.13 lb

## Field of View (1/3" TYPE CCD)

D(m) \ F(mm)	3.6	6	12	16	25	50	75	180
1	1.33 x 1.00	0.80 x 0.60	0.40 x 0.30	0.30 x 0.23	0.19 x 0.14	0.10 x 0.07	0.06 x 0.05	0.03 x 0.02
1.5	2.00 x 1.50	1.20 x 0.90	0.60 x 0.45	0.45 x 0.34	0.29 x 0.22	0.14 x 0.11	0.10 x 0.07	0.04 x 0.03
2	2.67 x 2.00	1.60 x 1.20	0.80 x 0.60	0.60 x 0.45	0.38 x 0.29	0.19 x 0.14	0.13 x 0.10	0.05 x 0.04
2.5	3.33 x 2.50	2.00 x 1.50	1.00 x 0.75	0.75 x 0.56	0.48 x 0.36	0.24 x 0.18	0.16 x 0.12	0.07 x 0.05
3	4.00 x 3.00	2.40 x 1.80	1.20 x 0.90	0.90 x 0.68	0.58 x 0.43	0.29 x 0.22	0.19 x 0.14	0.08 x 0.06
3.5	4.67 x 3.50	2.80 x 2.10	1.40 x 1.05	1.05 x 0.79	0.67 x 0.50	0.34 x 0.25	0.22 x 0.17	0.09 x 0.07
4	5.33 x 4.00	3.20 x 2.40	1.60 x 1.20	1.20 x 0.90	0.77 x 0.58	0.38 x 0.29	0.26 x 0.19	0.11 x 0.08
4.5	6.00 x 4.50	3.60 x 2.70	1.80 x 1.35	1.35 x 1.01	0.86 x 0.65	0.43 x 0.32	0.29 x 0.22	0.12 x 0.09
5	6.67 x 5.00	4.00 x 3.00	2.00 x 1.50	1.50 x 1.13	0.96 x 0.72	0.48 x 0.36	0.32 x 0.24	0.13 x 0.10
6	8.00 x 6.00	4.80 x 3.60	2.40 x 1.80	1.80 x 1.35	1.15 x 0.86	0.58 x 0.43	0.38 x 0.29	0.16 x 0.12
7	9.33 x 7.00	5.60 x 4.20	2.80 x 2.10	2.10 x 1.58	1.34 x 1.01	0.67 x 0.50	0.45 x 0.34	0.19 x 0.14
8	10.67 x 8.00	6.40 x 4.80	3.20 x 2.40	2.40 x 1.80	1.54 x 1.15	0.77 x 0.58	0.51 x 0.38	0.21 x 0.16
9	12.00 x 9.00	7.20 x 5.40	3.60 x 2.70	2.70 x 2.03	1.73 x 1.30	0.86 x 0.65	0.58 x 0.43	0.24 x 0.18
10	13.33 x 10.00	8.00 x 6.00	4.00 x 3.00	3.00 x 2.25	1.92 x 1.44	0.96 x 0.72	0.64 x 0.48	0.27 x 0.20
11	14.67 x 11.00	8.80 x 6.60	4.40 x 3.30	3.30 x 2.48	2.11 x 1.58	1.06 x 0.79	0.70 x 0.53	0.29 x 0.22
12	16.00 x 12.00	9.60 x 7.20	4.80 x 3.60	3.60 x 2.70	2.30 x 1.73	1.15 x 0.86	0.77 x 0.58	0.32 x 0.24
13	17.33 x 13.00	10.40 x 7.80	5.20 x 3.90	3.90 x 2.93	2.50 x 1.87	1.25 x 0.94	0.83 x 0.62	0.35 x 0.26
14	18.67 x 14.00	11.20 x 8.40	5.60 x 4.20	4.20 x 3.15	2.69 x 2.02	1.34 x 1.01	0.90 x 0.67	0.37 x 0.28
15	20.00 x 15.00	12.00 x 9.00	6.00 x 4.50	4.50 x 3.38	2.88 x 2.16	1.44 x 1.08	0.96 x 0.72	0.40 x 0.30
20	26.67 x 20.00	16.00 x 12.00	8.00 x 6.00	6.00 x 4.50	3.84 x 2.88	1.92 x 1.44	1.28 x 0.96	0.53 x 0.40
25	33.33 x 25.00	20.00 x 15.00	10.00 x 7.50	7.50 x 5.63	4.80 x 3.60	2.40 x 1.80	1.60 x 1.20	0.67 x 0.50
30	40.00 x 30.00	24.00 x 18.00	12.00 x 9.00	9.00 x 6.75	5.76 x 4.32	2.88 x 2.16	1.92 x 1.44	0.80 x 0.60
60	80.00 x 60.00	48.00 x 36.00	24.00 x 18.00	18.00 x 13.50	11.52 x 8.64	5.76 x 4.32	3.84 x 2.88	1.60 x 1.20
90	120.00 x 90.00	72.00 x 54.00	36.00 x 27.00	27.00 x 20.25	17.28 x 12.96	8.64 x 6.48	5.76 x 4.32	2.40 x 1.80
120	160.00 x 120.00	96.00 x 72.00	48.00 x 36.00	36.00 x 27.00	23.04 x 17.28	11.52 x 8.64	7.68 x 5.76	3.20 x 2.40
150	200.00 x 150.00	120.00 x 90.00	60.00 x 45.00	45.00 x 33.75	28.80 x 21.60	14.40 x 10.80	9.60 x 7.20	4.00 x 3.00