1-800-633-0405

## di-soric Machine Vision Lenses



<u>O-S1-S-080-40</u>

di-soric's range of S-mount lenses provides options when setting up your camera, allowing you to customize the system for your specific application. Use a short focal length lens to inspect a smaller portion of your workpiece up-close under high resolution. Use a longer focal length lens to view a wider field.

Use the table below to get an idea of which lens is right for your application

#### A Note on Aperture:

A smaller f-stop number indicates a larger aperture opening, letting in more light but creating a shallower depth-of-field. A larger f-stop number indicates a smaller aperture opening, letting in less light but yielding a deeper depth-of-field.

Depth-of-field refers to the distance range over which the portion of the object being viewed is still in focus.

di-soric S-Mount Lens Selection Guide							
Part Number	Price	Focal Length	Aperture	Lens Type	Lens Mount	Maximum Sensor Size	Drawing
<u> </u>	\$42.50	3.6 mm	Fixed f/4.0	Wide angle	S-mount	1/2.5 in	PDF
<u> </u>	\$42.50	3.6 mm	Fixed f/8.0	Wide angle	S-mount	1/2.5 in	PDF
<u>O-S1-S-080-40</u> *	\$28.00	8mm	Fixed f/4.0	Standard	S-mount	1/3 in	PDF
<u> </u>	\$28.00	8mm	Fixed f/8.0	Standard	S-mount	1/3 in	PDF
<u> 0-S1-S-160-40</u>	\$28.00	16mm	Fixed f/4.0	Standard	S-mount	1/3 in	PDF
<u> 0-S1-S-160-80</u>	\$28.00	16mm	Fixed f/8.0	Standard	S-mount	1/3 in	PDF
<u> 0-S1-S-250-40</u>	\$33.00	25mm	Fixed f/4.0	Standard	S-mount	1/2 in	<u>PDF</u>
O-S1-S-250-80	\$33.00	25mm	Fixed f/8.0	Standard	S-mount	1/2 in	PDF

\* Included with camera and also available separately

di-soric S-Mount Lens Monitoring Range (Field of View)				
With O-S1-S-036-XX Lens				
	CS60-BM28 models	CS60-BM38 models		
Operating Distance (mm [in])	Field of View (mm [in])			
70 [2.8]	35x22 [1.4x0.9]	92x69 [3.6x2.7]		
140 [5.5]	110x67 [4.3x2.6]	202x152 [8.0x6.0]		
200 [7.9]	165x102 [6.5x4.0]	271x203 [10.7x8.0]		
300 [11.8]	262x165 [10.3x6.5]	410x307 [16.1x12.1]		

With O-S1-S-080-XX Lens				
	CS60-BM28 models	CS60-BM38 models		
Operating Distance (mm [in])	Field of View (mm [in])			
100 [3.9]	30x19 [1.2x0.8]	57x43 [2.2x1.7]		
200 [7.9]	71x46 [2.8x1.8]	120x89 [4.7x3.5]		
400 [15.7]	155x100 [6.1x3.9]	243x183 [9.6x7.2]		
515 [20.3]	200x130 [7.9x5.1]	306x229 [12.0x9.0]		

With O-S1-S-160-XX Lens				
	CS60-BM28 models	CS60-BM38 models		
Operating Distance (mm [in])	Field of View (mm [in])			
100 [3.9]	17x11 [0.7x0.4]	26x20 [1.0x0.8]		
200 [7.9]	38x25 [1.5x1.0]	43x27 [1.7x1.1]		
400 [15.7]	79x52 [3.1x2.0]	119x89 [4.7x3.5]		
515 [20.3]	103x67 [4.1x2.6]	150x113 [5.9x4.4]		

With 0-S1-S-250-XX Lens				
	CS60-BM28 models	CS60-BM38 models		
Operating Distance (mm [in])	Field of View (mm [in])			
150 [5.9]	12x8 [0.5x0.3]	25x19 [1.0x0.3]		
300 [11.8]	28x21 [1.1x0.8]	55x41 [2.2x1.6]		
400 [15.7]	39x26 [1.5x1.0 ]	74x55 [2.9x2.2]		
500 [19.7]	52x38 [2.0x1.5]	94x71 [3.7x2.8]		

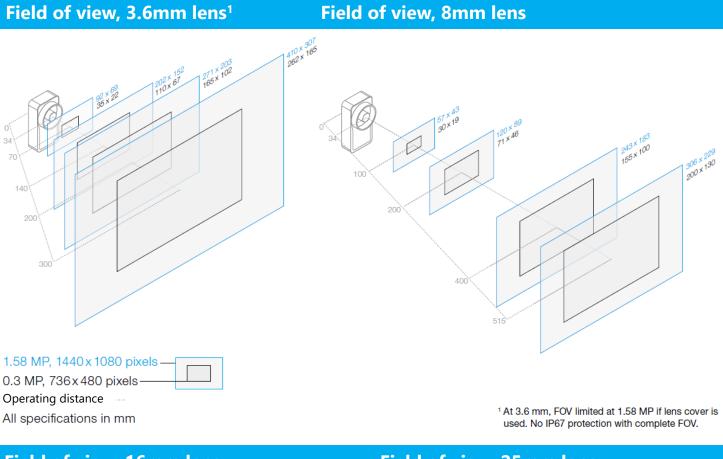
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The following illustration shows the representation of fields of view with the available lenses at various working distances for the CS-60 with 736x480 pixels (0.3 MP) and 1440x1080 pixels (1.6 MP).

Operating distance: Back of camera body to work piece.



### Field of view, 16mm lens

### Field of view, 25mm lens

