

# 1" machine vision lenses

LS-FA-1IN series · Machine vision lenses · 40 models

1" format, 5 megapixel C-mount  
FA machine vision lenses with  
manual iris, 8 to 50 mm.



## Common specifications

Mount C

## Models

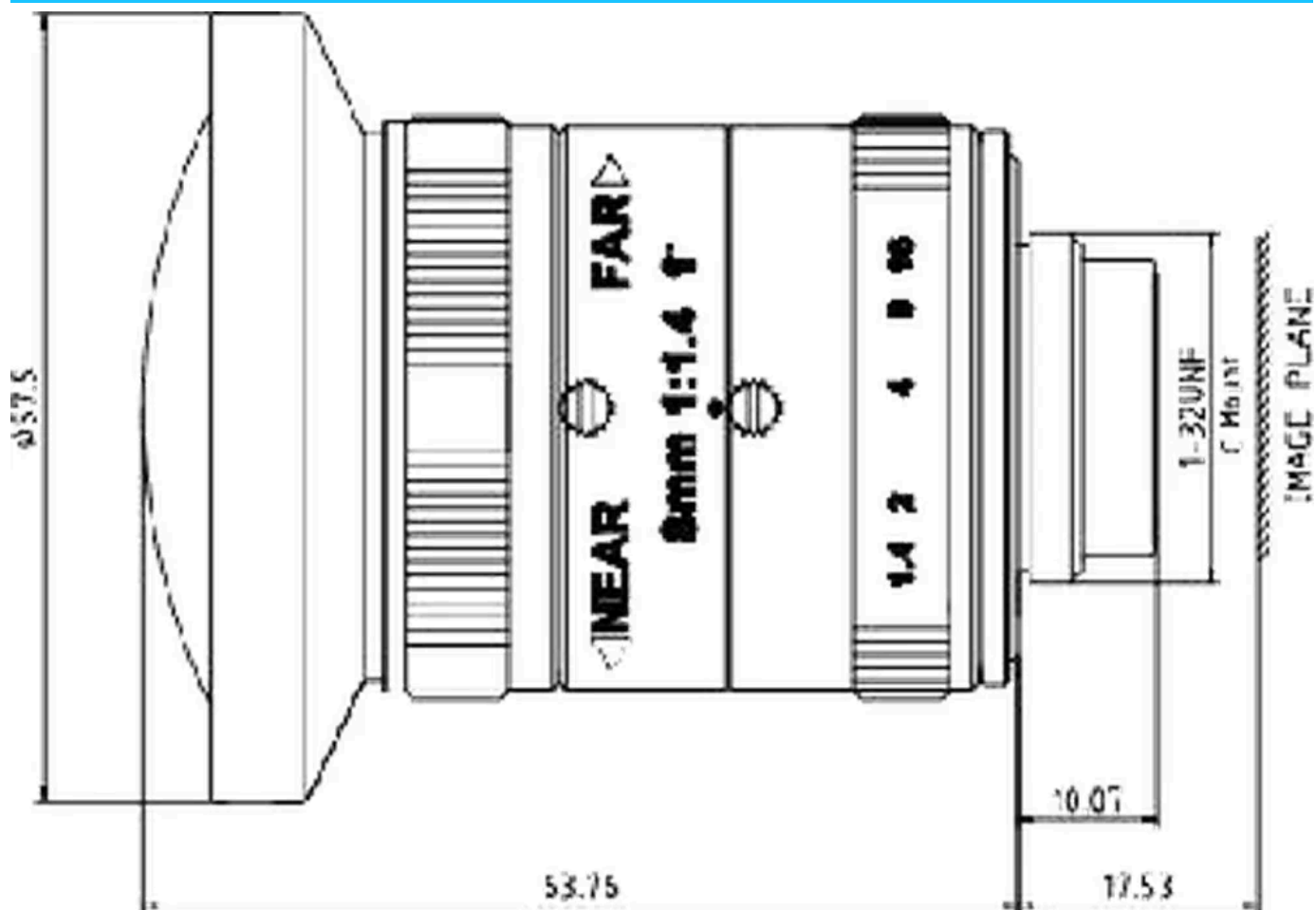
| Model           | Format | Resolution    | Focal length | Aperture            | M.O.D. | Distortion                        | Size                 |
|-----------------|--------|---------------|--------------|---------------------|--------|-----------------------------------|----------------------|
| LS-S1MV0814-5M  | 1"     | 5.0 Megapixel | 8 mm         | F1.4-16 Manual iris | 0.2 m  | <1.5%                             | dia. 57.5 x 63.76 mm |
| LS-S1MV1214-5M  | 1"     | 5.0 Megapixel | 12 mm        | F1.4 Manual Iris    | 0.3 m  | <1.5%                             | dia. 50 x 64.9 mm    |
| LS-S1MV1214-5MC | 1"     | 5.0 Megapixel | 12 mm        | F1.4 Manual iris    | 0.1 m  | 1.8%                              | dia. 50 x 64.4 mm    |
| LS-S1MV1216G-5M | 1"     | 5.0 Megapixel | 12 mm        | F1.6 Manual iris    | 1 m    | -2.88%@y=8.0 mm / -1.06%@y=4.0 mm | dia. 43 x 57.6 mm    |
| LS-S1MV1614-5M  | 1"     | 5.0 Megapixel | 16 mm        | F1.4 Manual Iris    | 0.2 m  | <1.0%                             | dia. 41 x 55.6 mm    |
| LS-S1MV1614-5MC | 1"     | 5.0 Megapixel | 16 mm        | F1.4 Manual iris    | 0.1 m  | 0.2%                              | dia. 50 x 62.2 mm    |
| LS-S1MV1616G-5M | 1"     | 5.0 Megapixel | 16 mm        | F1.6 Manual iris    | 1 m    | -3.73%@y=8.0 mm / -1.09%@y=4.0 mm | dia. 43 x 58.6 mm    |

| Model            | Format | Resolution    | Focal length | Aperture             | M.O.D. | Distortion                          | Size                 |
|------------------|--------|---------------|--------------|----------------------|--------|-------------------------------------|----------------------|
| LS-S1MV1620-5M   | 1"     | 5.0 Megapixel | 16 mm        | F2.0-C Manual iris   | 0.2 m  | <1%                                 | dia. 41.5 x 55.65 mm |
| LS-S1MV2016-8M   | 1"     | 8.0 MP        | 20 mm        | F1.6 ~ C Manual iris | 0.1 m  | -0.93%                              | dia. 48.5 x 56.3 mm  |
| LS-S1MV2016G-5M  | 1"     | 5.0 Megapixel | 20 mm        | F1.6 Manual iris     | 1 m    | -2.87%@y=8.0 mm / -0.72%@y=4.0 mm   | dia. 43 x 58.6 mm    |
| LS-S1MV2514-5M   | 1"     | 5.0 Megapixel | 25 mm        | F1.4 Manual iris     | 0.4 m  | <1.0%                               | dia. 39 x 39 mm      |
| LS-S1MV2514-5MC  | 1"     | 5.0 Megapixel | 25 mm        | F1.4 Manual iris     | 0.1 m  | 0.1%                                | dia. 44.8 x 53.3 mm  |
| LS-S1MV2516G-5M  | 1"     | 5.0 Megapixel | 25 mm        | F1.6 Manual iris     | 1 m    | -2.06%@y=8.0 mm / -0.52%@y=4.0 mm   | dia. 44.9 x 52.31 mm |
| LS-S1MV3514-5MC  | 1"     | 5.0 Megapixel | 35 mm        | F1.4 Manual iris     | 0.15 m | 0.1%                                | dia. 52 x 59.5 mm    |
| LS-S1MV3516G-5M  | 1"     | 5.0 Megapixel | 35 mm        | F1.6 Manual iris     | 0.4 m  | -0.26%@y=8.0 mm / -0.07%@y=4.0 mm   | dia. 44.3 x 50.8 mm  |
| LS-S1MV3520-5M   | 1"     | 5.0 Megapixel | 35 mm        | F2.0 Manual Iris     | 0.5 m  | <1.0%                               | dia. 37 x 41 mm      |
| LS-S1MV5014-5MC  | 1"     | 5.0 Megapixel | 50 mm        | F1.4 Manual iris     | 0.3 m  | 0.1%                                | dia. 52 x 63.1 mm    |
| LS-S1MV5020-5M   | 1"     | 5.0 Megapixel | 50 mm        | F2.0 Manual Iris     | 0.5 m  | <1.0%                               | dia. 45 x 60 mm      |
| LS-S1MV0814-10M  | 1"     | 10 Megapixel  | 8 mm         | F1.4-16 Manual iris  | 0.2 m  | <1.5%                               | dia. 57.5 x 63.76 mm |
| LS-S1MV0818-10M  | 1"     | 10 Megapixel  | 8 mm         | F1.8 Manual iris     | 0.3 m  | -4.12%                              | dia. 56.8 x 54.9 mm  |
| LS-S1MV0824-10M  | 1"     | 10 Megapixel  | 8.5 mm       | F2.4 Manual iris     | 0.1 m  | <0.7%                               | dia. 80 x 67.1 mm    |
| LS-S1MV1220-10M  | 1"     | 10 Megapixel  | 12 mm        | F2.0 Manual iris     | 0.08 m | -4.1%@1"; -1.2%@1/2"; -0.74%@1/3"   | dia. 37.7 x 48.9 mm  |
| LS-S1MV7518-5MC  | 1"     | 5.0 Megapixel | 75 mm        | F1.8 Manual iris     | 0.8 m  | 0.1%                                | dia. 60 x 94.6 mm    |
| LS-S11MV1614-10M | 1"     | 10 MP         | 16 mm        | F1.4 Manual Iris     | 0.1 m  | <0.3%                               | dia. 46 x 72.9 mm    |
| LS-S1MV1613-12M  | 1"     | 12 Megapixel  | 16 mm        | F1.3 Manual Iris     | 0.3 m  | <2%                                 | dia. 51 x 88.49 mm   |
| LS-S1MV1616-10M  | 1"     | 10 Megapixel  | 16 mm        | F1.6 Manual iris     | 0.1 m  | <0.68%                              | dia. 40 x 64.4 mm    |
| LS-S1MV1620-10M  | 1"     | 10 Megapixel  | 16 mm        | F2.0 Manual iris     | 0.1 m  | -2.2%@1"; -0.72%@1/2"; -0.42%@1/3"  | dia. 37 x 45.9 mm    |
| LS-S1MV2512-10M  | 1"     | 10 MP         | 25 mm        | F1.2 manual iris     | 0.3 m  | <3%                                 | dia. 52 x 78.86 mm   |
| LS-S1MV2514-10M  | 1"     | 10 Megapixel  | 25 mm        | F1.4 Manual iris     | 0.2 m  | <0.3%                               | dia. 40 x 42 mm      |
| LS-S1MV2518-10M  | 1"     | 10 Megapixel  | 25 mm        | F1.8 Manual iris     | 0.15 m | -1.53%@1"; -0.38%@1/2"; -0.22%@1/3" | dia. 33.5 x 36.8 mm  |
| LS-S1MV10035-8M  | 1"     | 8.0 Megapixel | 100 mm       | F3.5 Manual Iris     | 2 m    | < 0.025%                            | dia. 42 x 58.5 mm    |

| Model           | Format     | Resolution   | Focal length | Aperture           | M.O.D.                | Distortion                          | Size                 |
|-----------------|------------|--------------|--------------|--------------------|-----------------------|-------------------------------------|----------------------|
| LS-S1MV3512-10M | 1"         | 10 Megapixel | 35 mm        | F1.2 Manual Iris   | 0.3 (unit not stated) | <3%                                 | dia. 52 x 85.82 mm   |
| LS-S1MV3514-10M | 1"         | 10 Megapixel | 35 mm        | F1.4 Manual iris   | 0.16 m                | <0.39%                              | dia. 43 x 59.35 mm   |
| LS-S1MV3520-10M | 1"         | 10 Megapixel | 35 mm        | F2.0 Manual iris   | 0.2 m                 | 0.33%@1"; 0.08%@1/2"; 0.05%@1/3"    | dia. 34 x 35.2 mm    |
| LS-S1MV5013-12M | 1"         | 12 MP        | 50 mm        | F1.3 manual iris   | 0.3 m                 | <0.5%                               | dia. 57 x 66.58 mm   |
| LS-S1MV5014-12M | 1"         | 12 Megapixel | 50 mm        | F1.4-C Manual iris | 0.3 m                 | <3%                                 | dia. 55 x 66.2 mm    |
| LS-S1MV5020-10M | 1"         | 10 Megapixel | 50 mm        | F2.0 Manual iris   | 0.25 m                | -0.01%@1"; 0.012%@1/2"; 0.008%@1/3" | dia. 41.4 x 43.1 mm  |
| LS-S1MV5024-10M | 1"         | 10 Megapixel | 50 mm        | F2.4 Manual iris   | 0.55 m                | <0.1%                               | dia. 40 x 49.1 mm    |
| LS-S1MV7518-10M | 1"         | 10 MP        | 75 mm        | F1.8 Manual Iris   | 0.8 m                 | <0.05                               | dia. 56.4 x 94.1     |
| LS-S1MV7528-10M | 1" (16 mm) | 10 Megapixel | 75 mm        | F2.8 Manual iris   | 0.5 m                 | 0.75%@1"; 0.18%@1/2"; 0.11%@1/3"    | dia. 42.7 x 60.35 mm |

More values per model (Angle of view (1"), Weight, Angle of view (1", DxHxV), Back focal length, Optical total length, Magnification, Angle of view (2/3", DxHxV), Angle of view (1/2", DxHxV), Filter thread, Notes, Field of view (1", DxHxV), Field of view (1/2", DxHxV)...) are on each product page.

## Dimensions



## Product views

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