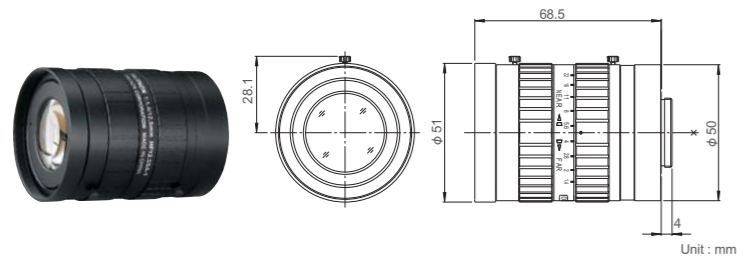


For FA/Machine Vision Fixed Focal

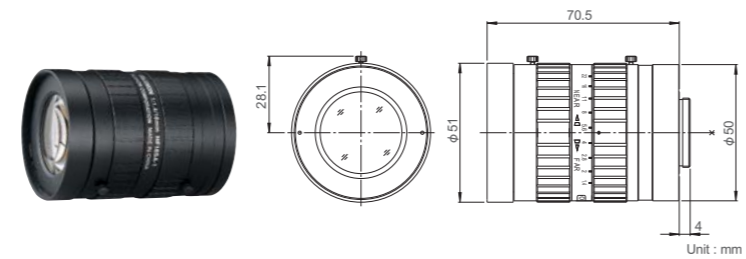
HF12.5SA-1

- FIXED
- 5 Mega
- MANUAL
- C-mnt
- METAL
- F1.4
- 🔒



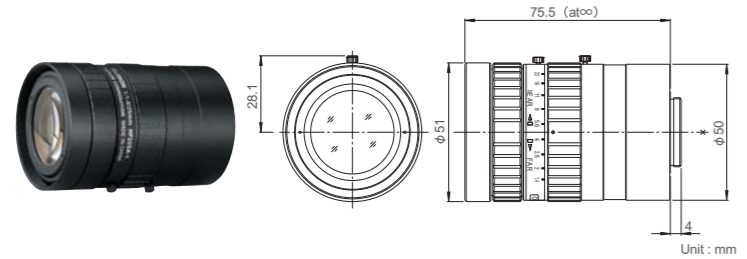
HF16SA-1

- FIXED
- 5 Mega
- MANUAL
- C-mnt
- METAL
- F1.4
- 🔒



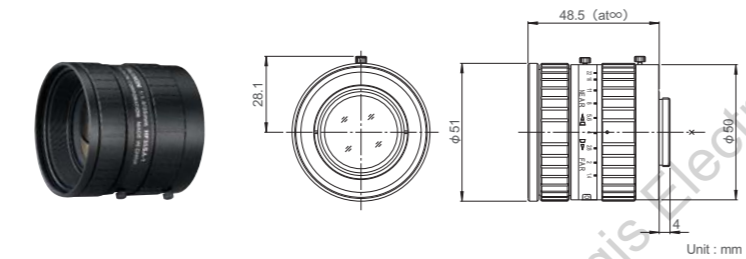
HF25SA-1

- FIXED
- 5 Mega
- MANUAL
- C-mnt
- METAL
- F1.4
- 🔒



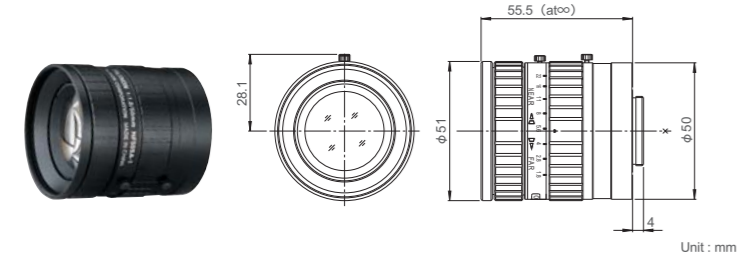
HF35SA-1

- FIXED
- 5 Mega
- MANUAL
- C-mnt
- METAL
- F1.4
- 🔒



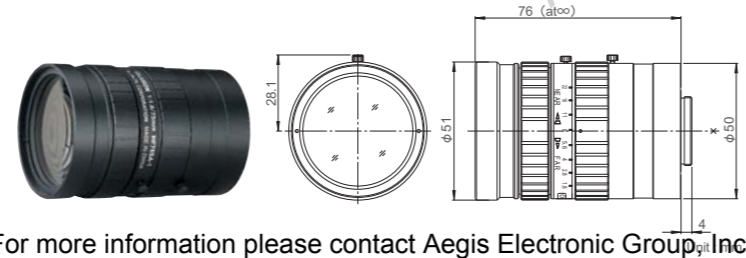
HF50SA-1

- FIXED
- 5 Mega
- MANUAL
- C-mnt
- METAL
- 🔒
- 📏



HF75SA-1

- FIXED
- 5 Mega
- MANUAL
- C-mnt
- METAL
- 🔒
- 📏

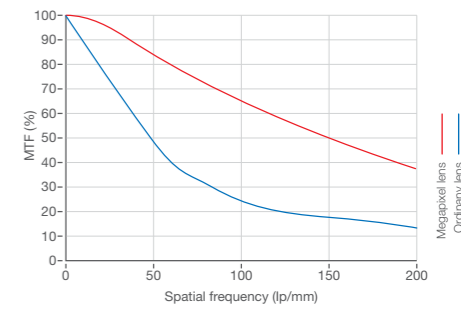


Feature Indications

- FIXED** Fixed Focal
High performance single focal lens for the best image quality
- MANUAL** Manual Iris
Manually-operated iris
- F1.4** Wide Aperture Rate
Lens with the wide aperture rate, optimizing the sensitivity of cameras
- 5 Mega** For Megapixel Camera
For 5 Megapixel Camera
- C-mnt** C Mount
Screw-in mounting commonly used in FA lenses
- METAL** Metal Mount
Metal mounting with high accuracy and durability
- 🔒 ... With locking knob for iris and focus
- 📏 ... Using an extension tube longer than 5mm the M.O.D. will increase to 0.3m
- 📏 ... Using an extension tube longer than 5mm the M.O.D. will increase to 0.5m

Megapixel Supporting Lens

We have realized a high resolution, compact, and lightweight lens supporting to megapixel by thoroughly reducing aberrations based on design technology cultivated from broadcast TV lenses. The chart shown at the right compares megapixel supporting lens and the MTF of an ordinary CCTV lens. As the number of TV lines increases, the disparity in MTF becomes bigger.



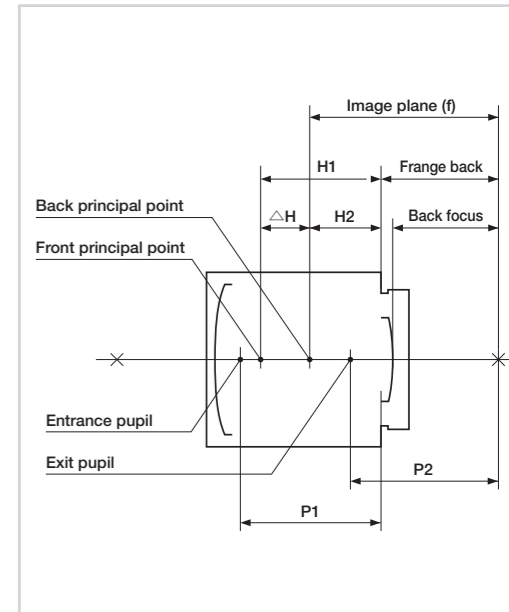
	HF12.5SA-1	HF16SA-1	HF25SA-1	HF35SA-1	HF50SA-1	HF75SA-1	
Focal Length (mm)	12.5	16	25	35	50	75	
Iris Range	F1.4-F22	F1.4-F22	F1.4-F22	F1.4-F22	F1.8-F22	F1.8-F22	
Operation	Focus Iris	Manual Manual	Manual Manual	Manual Manual	Manual Manual	Manual Manual	
Angle Of View (H×V)	2/3" 1/2" 1/3"	38°47' × 29°35' 28°43' × 21°44' 21°44' × 16°23'	30°45' × 23°18' 22°37' × 17°04' 17°04' × 12°50'	19°58' × 15°02' 14°35' × 10°58' 10°58' × 8°14'	14°20' × 10°46' 10°27' × 7°51' 7°51' × 5°53'	10°03' × 7°33' 7°19' × 5°30' 5°30' × 4°07'	6°43' × 5°02' 4°53' × 3°40' 3°40' × 2°45'
Focusing Range (From Front Of The Lens) (m)	∞ ~ 0.1	∞ ~ 0.1	∞ ~ 0.1	∞ ~ 0.2	∞ ~ 0.4	∞ ~ 0.9	
Object Dimensions at M.O.D. (H×V) (mm)	2/3" 1/2" 1/3"	83 × 62 60 × 45 45 × 34	69 × 51 50 × 37 37 × 28	44 × 33 32 × 24 24 × 18	50 × 38 37 × 27 27 × 21	70 × 52 51 × 38 38 × 28	101 × 76 74 × 55 55 × 41
Back Focal Distance (in air) (mm)	16.07	17.99	22.32	14.99	17.81	24.43	
Exit Pupil Position (From Image Plane) (mm)	-101	-172	-140	-37	-49	-52	
Filter Thread (mm)	M49 × 0.75	M49 × 0.75	M49 × 0.75	M49 × 0.75	M49 × 0.75	M49 × 0.75	
Mount	C	C	C	C	C	C	
Mass (g)	295	285	315	185	240	305	
Remarks	With Metal Mount	With Metal Mount	With Metal Mount	With Metal Mount	With Metal Mount	With Metal Mount	

For more information please contact Aegis Electronic Group, Inc. * (888)687-6877 * aegis-g2@aegiselect.com * http://www.aegiselect.com

OPTICAL DATA (FA/Machine Vision LENS)

Sensor size	Product name	Focal Length	Aperture/Full open	Front principal point H1 (from Mount)	Back principal point H2 (from Mount)	Distance between the principal points ΔH
1/2"	DF6HA-1B	6.15	1.2	-16.45	11.38	27.82
	HF9HA-1B	9.23	1.4	-12.91	8.30	21.21
	HF12.5HA-1B	12.88	1.4	-2.85	4.64	7.49
	HF16HA-1B	16.49	1.4	3.05	1.03	-2.02
	HF25HA-1B	25.81	1.4	1.82	-8.28	-10.10
	HF35HA-1B	34.99	1.6	-9.00	-17.47	-8.46
2/3"	HF50HA-1B	49.57	2.3	-42.64	-32.04	10.59
	HF75HA-1B	75.01	2.8	-100.77	-57.48	43.29
	HF12.5SA-1	12.83	1.4	-33.68	4.70	38.37
	HF16SA-1	16.33	1.4	-24.15	1.20	25.35
	HF25SA-1	24.00	1.4	-23.47	-6.47	17.00
	HF35SA-1	35.74	1.4	-1.27	-18.21	-16.94
	HF50SA-1	51.72	1.8	-1.87	-34.19	-32.32
	HF75SA-1	74.97	1.8	-34.56	-57.45	-22.89
	HF35SR4A-SA1L	35.00	2.0	-19.33	-17.47	1.85
	HF50SR4A-SA1L	50.00	2.8	18.09	-32.47	-50.56
1"	CF12.5HA-1	12.83	1.4	-33.68	4.70	38.37
	CF16HA-1	16.33	1.4	-24.15	1.20	25.35
	CF25HA-1	24.00	1.4	-23.47	-6.47	17.00
	CF35HA-1	35.74	1.4	-1.27	-18.21	-16.94
	CF50HA-1	51.72	1.8	-1.87	-34.19	-32.32
	CF75HA-1	74.97	1.8	-34.56	-57.45	-22.89
1/3" (3CCD)	TF2.8DA-8	2.86	2.2	-33.74	14.67	48.41
	TF4DA-8	4.15	2.2	-28.46	13.37	41.83
	TF8DA-8B	8.23	2.2	-10.81	9.30	20.10
	TF15DA-8	15.26	2.2	-0.33	2.27	2.60
	TF25DA-8B	24.94	2.2	14.49	-7.42	-21.91
Fish-Eye	FE185C046HA-1	1.43	1.4	-38.26	16.10	54.36
	FE185C057HA-1	1.78	1.4	-37.55	15.75	53.30
	FE185C086HA-1	2.68	1.8	-35.00	14.85	49.85

Entrance pupil position P1 (from Mount)	Exit pupil position P2 (from Image plane)	Back focal distance (in air)	Distortion	Relative illumination (Aperture: at full open. Image height: at diagonal)
-21.8	-46	11.44	-1.93%	39
-19.1	-28	13.48	-2.09%	32
-10.3	-31	15.09	-2.01%	35
-4.5	-30	15.15	-0.96%	35
-3.0	-32	14.58	-0.27%	46
2.1	-27	15.00	0.03%	56
5.8	-25	15.25	0.04%	61
35.4	-27	15.75	0.27%	63
-44.9	-101	16.07	-0.30%	68
-38.9	-172	17.99	-0.08%	78
-43.3	-139	22.32	-0.18%	72
-2.1	-37	14.99	-0.07%	62
0.5	-49	17.81	-0.03%	75
-2.2	-52	24.43	-0.03%	72
-37.8	-74	19.65	-0.02%	74
-26.7	-484	19.16	0.07%	80
-44.9	-101	16.07	0.17%	40
-38.9	-172	17.99	0.31%	34
-43.3	-139	22.32	0.02%	39
-2.1	-37	14.99	-0.15%	43
0.5	-49	17.81	-0.06%	62
-2.2	-52	24.43	-0.06%	67
-36.7	101	14.51	-6.25%	51
-32.8	88	14.61	-3.78%	53
-18.6	-178	14.83	-1.32%	30
-12.9	-89	16.32	-0.33%	34
-5.1	-120	15.12	-0.12%	30
-39.7	-227	9.70	-0.47% ※	75
-39.3	-66	9.70	-0.80% ※	74
-37.5	-41	9.75	-0.53% ※	84



※y=f·θ