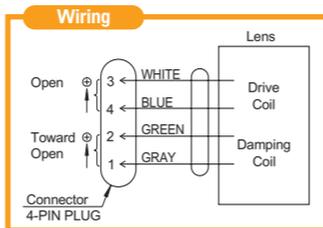
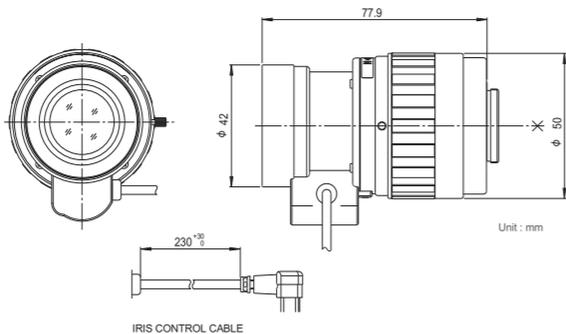


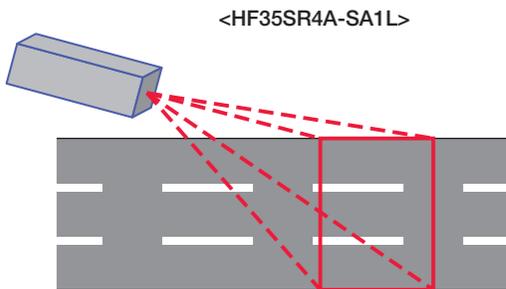
For Security Fixed Focal

HF35SR4A-SA1L / HF50SR4A-SA1L

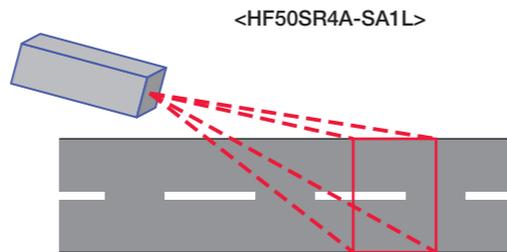


Design for ITS use

2 types for the different road condition



	H (m) × V (m)
10.0 (m)	2.7 × 1.5
50.0 (m)	13.7 × 7.7
100.0 (m)	27.4 × 15.4



	H (m) × V (m)
10.0 (m)	1.9 × 1.1
50.0 (m)	9.6 × 5.4
100.0 (m)	19.2 × 10.8

Feature Indications

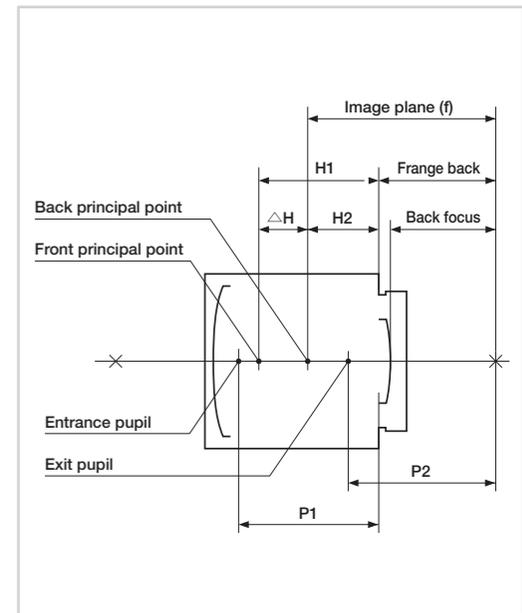
- FIXED** Fixed Focal: High performance single focal lens for the best image quality
- 5 Mega** For Megapixel Camera: For 5 Megapixel Camera
- Day~Night** Day & Night: Specially-designed lens supporting both visible light and near-infrared light to prevent out-of-focus of day & night cameras
- DC** DC Auto Iris: Auto iris supporting DC-controlled cameras
- C-mt** C Mount: Screw-in mounting commonly used in FA lenses
- METAL** Metal Mount: Metal mounting with high accuracy and durability
- N D** ND Filter: With the built-in ND filter, enables to optimize the brightness of the bright object in direct sunlight
- RoHS** RoHS Compliant

	HF35SR4A-SA1L	HF50SR4A-SA1L
Focal Length (mm)	35	50
Iris Range	F2.0~T360	F2.8~T360
Operation	Manual	Manual
	Focus	Auto (DC Type) (*1)
	Iris	Auto (DC Type) (*1)
Angle Of View (H×V)	2/3"	14°20' × 10°46'
	1/2"	10°27' × 7°51'
	1/3"	7°51' × 5°53'
Angle Of View (H×V) 16:9	2/3"	15°36' × 8°48'
	1/2"	11°22' × 6°25'
	1/3"	8°33' × 4°49'
Focusing Range (From Front Of The Lens) (m)	∞ ~ 0.75	∞ ~ 1.0
Object Dimensions at M.O.D. (H×V) (mm) 4:3	2/3"	191 × 143
	1/2"	139 × 104
	1/3"	104 × 78
Object Dimensions at M.O.D. (H×V) (mm) 16:9	2/3"	208 × 117
	1/2"	151 × 85
	1/3"	114 × 64
Back Focal Distance (in air) (mm)	19.65	19.16
Exit Pupil Position (From Image Plane) (mm)	-75	599
Filter Thread (mm)	M40.5 × 0.5	M40.5 × 0.5
Mount	C	C
Mass (g)	270	260
Coil Resistance	Drive Coil 190Ω Damping Coil 1,150Ω	Drive Coil 190Ω Damping Coil 1,150Ω
Current Consumption	23mA (Max.) at DC 4V	23mA (Max.) at DC 4V
Remarks	With Metal Mount (*1) When power is turned off, iris will automatically close.	With Metal Mount (*1) When power is turned off, iris will automatically close.

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



※ $y=f\theta$