

HF-SA Series

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High resolution lenses



HF-SA Series

FUJINON HF-SA series is designed to achieve high resolution up to 5 megapixels (3.45 μ m pixel pitch) compatible with 2/3" sensors.

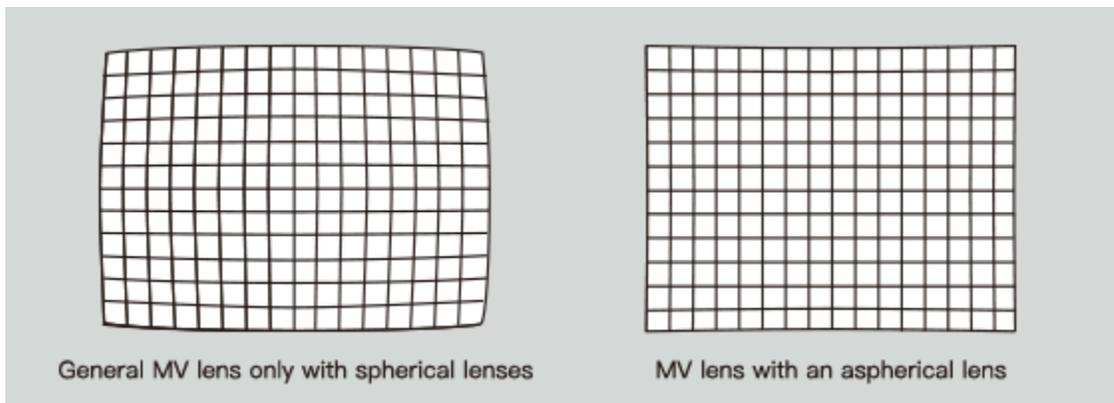
HF-SA series specification sheet

Model	Compatible format sizes								Focal length (mm)
	4/3	1.1	1	1/1.2	2/3	1/1.8	1/2	1/3	
HF12.5SA-1	—	—	—	—	•	•	•	•	12.5

HF16SA-1	—	—	—	—	●	●	●	●	16
HF25SA-1	—	—	—	—	●	●	●	●	25
HF35SA-1	—	—	—	—	●	●	●	●	35
HF50SA-1	—	—	—	—	●	●	●	●	50
HF75SA-1	—	—	—	—	●	●	●	●	75

- Compatible sensor size (std.): Ideal size to maximize the target resolution.

Main features



Low distortion

FUJINON HF-SA series thoroughly minimizes distortion which causes problems in applications requiring high accuracy such as dimension measurement.

- * Simulated image

High performance in close-up shooting

The rear focusing method*1 enables high performance even in close-up shooting.

- *1 HF12.5SA-1 and HF16SA-1

Low F-number

The low F-number up to F1.4 ensures a clear image even in low light situations.

Enough peripheral light amount

Enough light is captured even at the edges of the image, which contributes to stable inspection accuracy.

Lineups



HF12.5SA-1

Focal length [mm]	12.5
Iris range (F. no)	F1.4-F22
Angle of view	38.0°x 29.0° (2/3")
Working Distance*2 (mm)	∞ - 100
Operation of focus	Manual

Operation of iris	Manual
Filter thread [mm]	M49 x 0.75
Mount	C-mount
Weight (approx.) [g]	295
Sensor size (std.)*3	2/3" (3.45μm)
Sensor size (max.)*4	2/3" (3.45μm)
TV distortion [%]	-0.08
Dimension [mm]	Φ51×68.5



HF16SA-1

Focal length [mm]	16
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Iris range (F. no)	F1.4-F22
Angle of view	30.2°x 22.9° (2/3")
Working Distance*2 (mm)	∞ - 100
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M49 x 0.75
Mount	C-mount
Weight (approx.) [g]	285
Sensor size (std.)*3	2/3" (3.45μm)
Sensor size (max.)*4	2/3" (3.45μm)
TV distortion [%]	0.11
Dimension [mm]	Φ51×70.5



HF25SA-1

Focal length [mm]	25
Iris range (F. no)	F1.4-F22
Angle of view	20.8°x 15.7° (2/3")
Working Distance*2 (mm)	∞-100
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M49 x 0.75
Mount	C-mount
Weight (approx.) [g]	315

Sensor size (std.)*3	2/3" (3.45μm)
Sensor size (max.)*4	2/3" (3.45μm)
TV distortion [%]	-0.06
Dimension [mm]	Φ51×75.5



HF35SA-1

Focal length [mm]	35
Iris range (F. no)	F1.4-F22
Angle of view	14.0°x 10.5° (2/3")
Working Distance*2 (mm)	∞-200
Operation of focus	Manual

Operation of iris	Manual
Filter thread [mm]	M49 x 0.75
Mount	C-mount
Weight (approx.) [g]	185
Sensor size (std.)*3	2/3" (3.45μm)
Sensor size (max.)*4	2/3" (3.45μm)
TV distortion [%]	0.07
Dimension [mm]	Φ51×48.5



HF50SA-1

Focal length [mm]	50
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Iris range (F. no)	F1.8-F22
Angle of view	9.7°x 7.3° (2/3")
Working Distance*2 (mm)	∞-400
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M49 x 0.75
Mount	C-mount
Weight (approx.) [g]	240
Sensor size (std.)*3	2/3" (3.45μm)
Sensor size (max.)*4	2/3" (3.45μm)
TV distortion [%]	0.08
Dimension [mm]	Φ51×55.5

- *2 From front of lens barrel
- *3 Sensor size (std.): Ideal size to maximize the target resolution.

- *4 Sensor size (max.): Adaptable sensor size varies depending on the model. Please check the amount of light and resolution on the edges pertaining to your particular application.



HF75SA-1

Focal length [mm]	75
Iris range (F. no)	F1.8-F22
Angle of view	6.7°x 5.0° (2/3")
Working Distance*2 (mm)	∞-900
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M49 x 0.75
Mount	C-mount

Weight (approx.) [g]	305
Sensor size (std.)*3	2/3" (3.45μm)
Sensor size (max.)*4	2/3" (3.45μm)
TV distortion [%]	0.01
Dimension [mm]	Φ51×76

- *2 From front of lens barrel
- *3 Sensor size (std.): Ideal size to maximize the target resolution.
- *4 Sensor size (max.): Adaptable sensor size varies depending on the model. Please check the amount of light and resolution on the edges pertaining to your particular application.