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HF-XA-5M Series

Lens Selector

Contact Us

"4D High Resolution" lenses

HF-XA-5M Series

**Compatible with 2/3" to 1.1" (max.)
large image sensor cameras**

FUJINON HF-XA-5M series is designed for "4DHR" and compatible with IMX250 high performance CMOS image sensor (2/3", 5 megapixels, 3.45µm pixel pitch).



HF-XA-5M 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	
HF6XA-5M	-	-	-	-	●	●	●	●	6
HF8XA-5M	-	-	-	-	●	●	●	●	8
HF12XA-5M	-	-	-	○	●	●	●	●	12
HF16XA-5M	-	-	-	○	●	●	●	●	16
HF25XA-5M	-	-	-	○	●	●	●	●	25
HF35XA-5M	-	-	-	○	●	●	●	●	35
HF50XA-5M	-	○	○	○	●	●	●	●	50

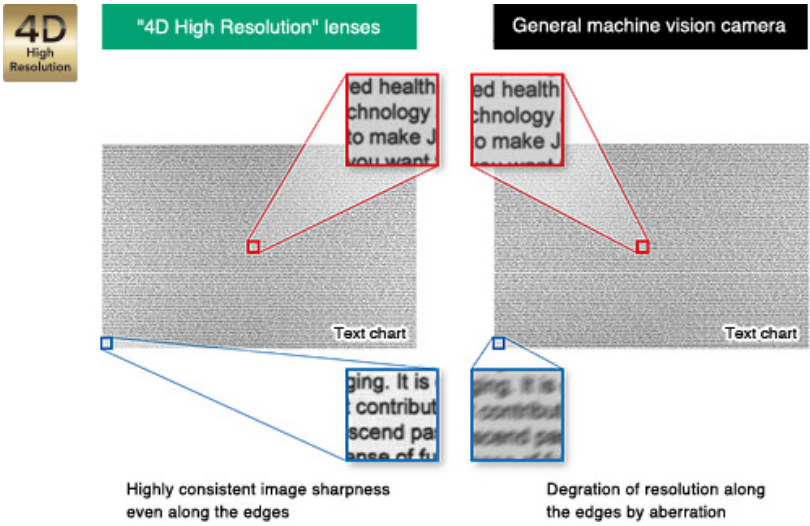
● Compatible sensor size (std.): Ideal size to maximize the target resolution.

○ Compatible sensor size (max.): Adaptable sensor size varies depending on the model. Select a lens after checking the peripheral light amount and resolution.

Main features

Minimizing degradation of resolution even when the shooting distance or aperture is changed

General machine vision camera lenses exhibit problematic degradation of resolution when the shooting distance or aperture is changed. FUJINON HF-XA-5M features high performance "4D HR" to minimize such degradation.
It maintains a highly consistent image sharpness from the center to the edges, while mitigating degradation of resolution caused by changes in the shooting distance or aperture. This enables consistent delivery of high-resolution images under a wide variety of installation and shooting conditions.



Anti-shock & vibration design

Our unique mechanical design* realizes anti-shock and vibration performance compatible with various installation environments.

* Patent Pending

* Only the HF6XA-5M and HF50XA-5M are equipped with Anti Shock & Vibration.

【Compliant with IEC60068-2-6】

- Vibration frequency of 10-60Hz (amplitude of 0.75mm), 60-500Hz (acceleration of 100m/S2)
- Sweep frequency of 50 cycles


Anti Shock & Vibration

Compact design

Despite being high resolution lenses, the HF-XA-5M series is the best for use with small machine vision cameras.
6mm: ϕ39mm
8mm/12mm/16mm/25mm/35mm: ϕ29.5mm
50mm: ϕ33mm



Selectable three locking holes

FUJINON HF-XA-5M series comes with three locking holes each for the iris and focus. They are located on the lens barrels, allowing you to select the optimum holes for your needs.

Lineups

HF6XA-5M



Focal length [mm]	6
Iris range (F. no)	F1.9-F16
Angle of view(2/3")	74.7°×58.1°
Working Distance[*1][mm]	∞-100
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M37.5 x 0.5
Mount	C-mount
Weight (approx.) [g]	100
Sensor size(std.)[*2]	2/3"(3.45µm)
Sensor size (max.)[*3]	2/3"(3.45µm)
TV distortion [%]	-2.88
Dimension [mm]	Φ39×51

HF8XA-5M



Focal length [mm]	8
Iris range (F. no)	F1.6-F16
Angle of view(2/3")	58.4°×44.6°
Working Distance[*1][mm]	∞-100
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M25.5 x 0.5
Mount	C-mount
Weight (approx.) [g]	79
Sensor size(std.)[*2]	2/3"(3.45µm)
Sensor size (max.)[*3]	2/3"(3.45µm)
TV distortion [%]	-1.99
Dimension [mm]	Φ29.5×51.5

HF12XA-5M



HF16XA-5M



Focal length [mm]	12
Iris range (F. no)	F1.6-F16
Angle of view(2/3")	40.1°×30.3°
Working Distance[*1][mm]	∞-100
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M25.5 x 0.5
Mount	C-mount
Weight (approx.) [g]	79
Sensor size(std.)[*2]	2/3"(3.45µm)
Sensor size (max.)[*3]	1/1.2"(4.5µm)
TV distortion [%]	-1.26
Dimension [mm]	Φ29.5×51.5

Focal length [mm]	16
Iris range (F. no)	F1.6-F16
Angle of view(2/3")	31.4°×23.7°
Working Distance[*1][mm]	∞-100
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M25.5 x 0.5
Mount	C-mount
Weight (approx.) [g]	71
Sensor size(std.)[*2]	2/3"(3.45µm)
Sensor size (max.)[*3]	1/1.2"(4.5µm)
TV distortion [%]	-0.60
Dimension [mm]	Φ29.5×46.0

HF25XA-5M



HF35XA-5M



Focal length [mm]	25
Iris range (F. no)	F1.6-F16
Angle of view(2/3")	20.0°×15.0°
Working Distance[*1][mm]	∞-100
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M25.5 x 0.5
Mount	C-mount

Focal length [mm]	35
Iris range (F. no)	F1.9-F16
Angle of view(2/3")	14.2°×10.7°
Working Distance[*1][mm]	∞-200
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M25.5 x 0.5
Mount	C-mount

Weight (approx.) [g]	72
Sensor size(std.)*2	2/3"(3.45µm)
Sensor size (max.)*3	1/1.2"(4.5µm)
TV distortion [%]	-0.07
Dimension [mm]	Φ29.5×46.5

Weight (approx.) [g]	60
Sensor size(std.)*2	2/3"(3.45µm)
Sensor size (max.)*3	1/1.2"(4.5µm)
TV distortion [%]	0.10
Dimension [mm]	Φ29.5×41.5

HF50XA-5M



Focal length [mm]	50
Iris range (F. no)	F2.4-F16
Angle of view(2/3")	10.4°x7.8°
Working Distance*1[mm]	∞-200
Operation of focus	Manual
Operation of iris	Manual
Filter thread [mm]	M30.5x0.5
Mount	C-mount
Weight (approx.) [g]	95
Sensor size(std.)*2	2/3"(3.45µm)
Sensor size (max.)*3	1.1"(4.5µm)
TV distortion [%]	0.01
Dimension [mm]	ϕ33.0x66.5

*1 From front of lens barrel

*2 Sensor size(std.): Ideal size to maximize the target resolution

*3 Sensor size(max.): Adaptable sensor size varies depending on the model. Select a lens after checking the peripheral light amount and resolution.

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Related Products

Machine Vision Lenses

FUJINON Machine Vision lenses are evolving technically to meet strict quality control demands and to improve production efficiency.



CF-ZA-1S Series

CF-ZA-1S series supports large high-resolution sensor of 1.2" type with 2.74µm pixel pitch.



HF-12M Series

HF-12M series is low distortion lens having 2.1µm pixel pitch and compatible with IMX536 CMOS sensor.



HF-XA-1F Series

HF-XA-1F series is designed to achieve high resolution up to 5 mega pixel (3.45 pixel pitch) compatible with 2/3 sensor.



CF-HA Series

CF-HA series is compatible with large 1" image sensor cameras to realize high resolution up to 1.5 megapixels.



HF-HA-1S Series

HF-HA-1S series is the lens that support 2/3" type* and 6.2µm pixel pitch.*DF6HA-1S supports 1/2 type.



HF-SA Series

HF-SA series is designed to achieve high resolution up to 5 megapixels compatible with 2/3" sensors.



FE185 Series

Super wide-angle lenses with a 185° field of view compatible with 5-megapixel high resolution sensors.

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