

FUJIFILM Anti-Vibration & Shock Lens Series



Include Bullet Points

- FUJINON Anti Vibration performance maintains high resolution
- FUJINON Anti-vibration performance has passed the severe vibration test conforming to JIS 60068-2-6
- Suppression of aged deterioration and advanced installation convenience

Text to define the market (targeting 5MP cameras)

Fujinon line of Anti-Vibration & Shock Lenses for the Factory Automation market offers superior performance for cameras used in conditions where vibrations and shock are present. The Fujinon Anti-Vibration & Shock Lenses are designed to work with standard 2/3" C-mount camera through the popular **5MP cameras** up through the 12MP camera market.

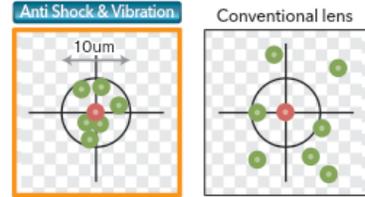
Include Bullet Points

- Suppressing the optical axis shift less than 10um
- Fujifilm original mechanic design minimizes the use of adhesive to avoid the aged deterioration caused by humidity and heat in the production line
- The variable throttle mechanism does not need iris parts change and offers easier installation
- Ideal size to to maximize the target resolution

Anti Shock & Vibration

The HF12M and HF-XA-5M series deliver anti-shock and anti-vibration FUJINON Anti-Shock performance suppress the optical axis shift less than 10um.

- In the case of ordinary machine vision lenses, the optical axis shift occurs when shock moves lenses from their initial position and it affects the lenses ability to provide highly precise measurement. Fujifilm’s unique mechanical design*¹ paired with FUJINON Anti-Shock performance suppresses the optical axis shift less than 10um*² even when shock up to 10G*³ is present.



Axis shift when given repeated shocks

FUJINON Anti-Vibration performance maintains high resolution.

- The ordinary machine vision lenses have problems of toughness under working environment where vibration occurs. FUJINON Anti-Vibration performance has passed vibration test conforming to IEC60068-2-6. This feature helps keep both the mechanical and optical elements in their original position while maintaining superb resolution.

Suppresses aged deterioration and provides advanced installation convenience.

- Fujifilm original mechanical design minimizes the use of adhesive to avoid aged deterioration that can be caused by humidity and heat in the production line.
- The variable throttle mechanism does not require iris parts to be changed and allows easier installation.



[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

*1: Patent applied for
*2: Maximum impact tolerance varies by model
*3: Measured results by Fujifilm

Anti Shock & Vibration

	HF-XA-5M series		HF-12M series				
	HF6XA-5M	HF50XA-5M	HF818-12M	HF1218-12M	HF1618-12M	HF2518-12M	HF3520-12M
Focal length[mm]	6	50	8	12	16	25	35
Iris range(F. no)	F1.9-F16	F2.4-F16	F1.8-F22	F1.8-F22	F1.8-F22	F1.8-F22	F2.0-F22
Angle of view	74.7°x58.1° (2/3")	10.4°x7.8° (2/3")	56.9°x43.9° (2/3")	39.3°x30.0° (2/3")	30.8°x23.3° (2/3")	20.0°x15.1° (2/3")	14.7°x11.0° (2/3")
WD(Working Distance)[mm] *1	∞-100	∞-200	∞-100	∞-100	∞-100	∞-100	∞-200
Operation of focus	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Operation of iris	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Filter thread[mm]	M37.5 x 0.5	M30.5 x 0.5	M30.5 x 0.5	M30.5 x 0.5	M30.5 x 0.5	M30.5 x 0.5	M30.5 x 0.5
Mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
Weight (approx.)[g]	100	95	95	85	90	85	85
Sensor size (std.) *2	2/3" (3.45μm)	2/3" (3.45μm)	2/3" (2.1μm)				
Sensor size (max.) *3	2/3" (3.45μm)	1.1" (4.5μm)		1/1.2" (4.5μm)	1/1.2" (4.5μm)	1/1.2" (4.5μm)	1" (4.5μm)
TV distortion[%]	-2.88	0.01	-1.03	0.18	-0.03	0.02	0.01
Dimension[mm]	φ39x51	φ33x66.5	φ33x48.5	φ33x52.5	φ33x52.5	φ33x53.1	φ33x53.1

Go to <https://youtu.be/gcx784rMkOY> to view demonstration of Fujifilm anti-vibration & shock technology

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