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</table>

* HF-12M series and HF-XA-5M series are compatible with 2/3" format and can be adapted to larger sensor size. For details, refer to P7.
* CF-ZA series are from 2.5μm - 3.45μm
* HF-12M series are from 2.1μm - 3.45μm

The "4D High Resolution" is the FUJINON lenses' unique performance. It maintains a high level of consistent image sharpness at the center as well as around the edges, while mitigating resolution degradation that typically occurs when changing a working distance or aperture value.
Lens Selection Guide

4D High Resolution

The "4D High Resolution" is the FUJINON lenses' unique performance. It maintains a high level of consistent image sharpness at the center as well as around the edges, while mitigating resolution degradation that typically occurs when changing a working distance or aperture value.

※ HF-12M series and HF-XA-5M series are compatible with 2/3" format and can be adapted to larger sensor size. For details, refer to P7.
CF-ZA series are from 2.5μm - 3.45μm
HF-12M series are from 2.1μm - 3.45μm
### CF-ZA-1S Series 12-23 Megapixel, 1.1" Focal Length [mm]

<table>
<thead>
<tr>
<th>Model</th>
<th>Focal length [mm]</th>
<th>Iris range (F.no)</th>
<th>Angle of view</th>
<th>Working Distance [mm]</th>
<th>Operation of focus</th>
<th>Operation of Iris</th>
<th>Filter thread [mm]</th>
<th>Mount</th>
<th>Weight (approx.) [g]</th>
<th>Sensor size (max) [mm]</th>
<th>TV distortion [%]</th>
<th>CRA</th>
<th>Dimension [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF8ZA-1S</td>
<td>8</td>
<td>F1.8-F16</td>
<td>8.5°×24.8“</td>
<td>~0.1m</td>
<td>Manual</td>
<td>Manual</td>
<td>M32 x 0.75</td>
<td>C-mount</td>
<td>180</td>
<td>1.1”(2.5-3.45um)</td>
<td>-4.81%</td>
<td>4.5°</td>
<td>ø19 x ø7.3</td>
</tr>
<tr>
<td>CF12ZA-1S</td>
<td>12</td>
<td>F1.8-F16</td>
<td>8.5°×24.8“</td>
<td>~0.1m</td>
<td>Manual</td>
<td>Manual</td>
<td>M37.5 x 0.5</td>
<td>C-mount</td>
<td>180</td>
<td>1.1”(2.5-3.45um)</td>
<td>-4.81%</td>
<td>4.5°</td>
<td>ø19 x ø7.6</td>
</tr>
<tr>
<td>CF16ZA-1S</td>
<td>16</td>
<td>F1.8-F16</td>
<td>8.5°×24.8“</td>
<td>~0.1m</td>
<td>Manual</td>
<td>Manual</td>
<td>M37.5 x 0.5</td>
<td>C-mount</td>
<td>180</td>
<td>1.1”(2.5-3.45um)</td>
<td>-4.81%</td>
<td>4.5°</td>
<td>ø19 x ø7.6</td>
</tr>
<tr>
<td>CF25ZA-1S</td>
<td>25</td>
<td>F1.8-F16</td>
<td>8.5°×24.8“</td>
<td>~0.1m</td>
<td>Manual</td>
<td>Manual</td>
<td>M32 x 0.75</td>
<td>C-mount</td>
<td>170</td>
<td>1.1”(2.5-3.45um)</td>
<td>-4.81%</td>
<td>4.5°</td>
<td>ø19 x ø7.3</td>
</tr>
<tr>
<td>CF35ZA-1S</td>
<td>35</td>
<td>F1.8-F16</td>
<td>8.5°×24.8“</td>
<td>~0.1m</td>
<td>Manual</td>
<td>Manual</td>
<td>M37.5 x 0.5</td>
<td>C-mount</td>
<td>165</td>
<td>1.1”(2.5-3.45um)</td>
<td>-4.81%</td>
<td>4.5°</td>
<td>ø19 x ø7.3</td>
</tr>
<tr>
<td>CF50ZA-1S</td>
<td>50</td>
<td>F1.8-F16</td>
<td>8.5°×24.8“</td>
<td>~0.1m</td>
<td>Manual</td>
<td>Manual</td>
<td>M30.5 x 0.5</td>
<td>C-mount</td>
<td>155</td>
<td>1.1”(2.5-3.45um)</td>
<td>-4.81%</td>
<td>4.5°</td>
<td>ø19 x ø7.6</td>
</tr>
</tbody>
</table>

*1: From front of lens barrel
*2: Sensor size (std.): 39×67.6
*3: TV distortion: 0.18

**Please download the specification sheet and the drawing data.**
### HF-XA-5M series, 2/3”

Maximum sensor size
6mm/8mm=-2/3” ; 12mm/16mm/25mm/35mm=-1/1.2” , 50mm=-1.1”

<table>
<thead>
<tr>
<th>Model</th>
<th>Focal length [mm]</th>
<th>Iris range (F, no)</th>
<th>Angle of view</th>
<th>Working Distance* [mm]</th>
<th>Operation of focus</th>
<th>Operation of iris</th>
<th>Filter thread [mm]</th>
<th>Mount</th>
<th>Weight (approx.) [g]</th>
<th>Sensor size (std.) δ</th>
<th>Sensor size (max.) δ</th>
<th>TV distortion [%]</th>
<th>Dimension [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF6XA-5M</td>
<td>6</td>
<td>F1.6-F16</td>
<td>74.7°×58.1°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>100</td>
<td>2/3”(4.5um)</td>
<td>2/3”(3.45um)</td>
<td>-0.01</td>
<td>Ø29.5x51.5</td>
</tr>
<tr>
<td>HF8XA-5M</td>
<td>8</td>
<td>F1.6-F16</td>
<td>58.4°×44.6°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>79</td>
<td>2/3”(3.45um)</td>
<td>2/3”(3.45um)</td>
<td>-0.99</td>
<td>Ø29.5x51.5</td>
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<tr>
<td>HF12XA-5M</td>
<td>12</td>
<td>F1.6-F16</td>
<td>40.7°×30.3°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>79</td>
<td>2/3”(3.45um)</td>
<td>2/3”(3.45um)</td>
<td>-1.99</td>
<td>Ø29.5x51.5</td>
</tr>
<tr>
<td>HF16XA-5M</td>
<td>16</td>
<td>F1.6-F16</td>
<td>31.4°×23.7°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>71</td>
<td>2/3”(3.45um)</td>
<td>2/3”(3.45um)</td>
<td>-0.60</td>
<td>Ø29.5x46.0</td>
</tr>
<tr>
<td>HF25XA-5M</td>
<td>25</td>
<td>F1.6-F16</td>
<td>20.0°×15.0°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>51×70.5</td>
<td>1/2”(6.45um)</td>
<td>1/2”(6.45um)</td>
<td>-0.88</td>
<td>Ø355x45.5</td>
</tr>
<tr>
<td>HF35XA-5M</td>
<td>35</td>
<td>F1.9-F16</td>
<td>14.2°×10.7°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>60</td>
<td>1/2”(6.45um)</td>
<td>1/2”(6.45um)</td>
<td>-1.07</td>
<td>Ø25x41.5</td>
</tr>
<tr>
<td>HF50XA-5M</td>
<td>50</td>
<td>F2.4-F16</td>
<td>10.4°×7.8°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M30.5 x 0.5</td>
<td>C-mount</td>
<td>95</td>
<td>1/2”(6.45um)</td>
<td>1/2”(6.45um)</td>
<td>-0.01</td>
<td>Ø33.0x66.5</td>
</tr>
<tr>
<td>HF75SA-1</td>
<td>75</td>
<td>F2.4-F16</td>
<td>8.0°×6.0°</td>
<td>~ 100</td>
<td>Manual</td>
<td>Manual</td>
<td>M49 x 0.75</td>
<td>C-mount</td>
<td>100</td>
<td>1/2”(6.45um)</td>
<td>1/2”(6.45um)</td>
<td>-0.60</td>
<td>Ø29.5x46.0</td>
</tr>
</tbody>
</table>

* From front of lens barrel
*1: Sensor size (std.): Ideal size to maximize the target resolution
*2: Sensor size (max.): Adaptable sensor size varies depending on the model. Please check the amount of light and resolution on the edge pertaining to your particular application.
### HF-SA series 5 Megapixel, 2/3"

**HF12.5SA-1**
- **Focal length (mm)**: 12.5
- **Iris range (F. no)**: F1.4-F22
- **Angle of view**: 36° x 25° (2/3")
- **Working Distance**: 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 (max.)**: 2/3" (3.45um)
- **TV distortion [%]**: 0.07
- **Dimension (mm)**: Ø51 x 48.5

**HF16SA-1**
- **Focal length (mm)**: 16
- **Iris range (F. no)**: F1.4-F22
- **Angle of view**: 30.2° x 22.9° (2/3")
- **Working Distance**: 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 (max.)**: 2/3"
- **TV distortion [%]**: 0.11
- **Dimension (mm)**: Ø51 x 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**: 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 (max.)**: 2/3"
- **TV distortion [%]**: 0.06
- **Dimension (mm)**: Ø51 x 75.5

**HF35SA-1**
- **Focal length (mm)**: 35
- **Iris range (F. no)**: F1.4-F22
- **Angle of view**: 16° x 15° (2/3")
- **Working Distance**: 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 (max.)**: 2/3"
- **TV distortion [%]**: 0.07
- **Dimension (mm)**: Ø51 x 48.5

**HF50SA-1**
- **Focal length (mm)**: 50
- **Iris range (F. no)**: F1.4-F22
- **Angle of view**: 7.7° x 7.3° (2/3")
- **Working Distance**: 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 (max.)**: 2/3"
- **TV distortion [%]**: 0.08
- **Dimension (mm)**: Ø51 x 55.5

**HF75SA-1**
- **Focal length (mm)**: 75
- **Iris range (F. no)**: F1.4-F22
- **Angle of view**: 6.7° x 5° (2/3")
- **Working Distance**: 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 (max.)**: 2/3"
- **TV distortion [%]**: 0.01
- **Dimension (mm)**: Ø51 x 75

*From front of lens barrel*
# HF-HA series 1.5 Megapixel, 2/3”

<table>
<thead>
<tr>
<th>Model</th>
<th>Focal length [mm]</th>
<th>Iris range (F. no)</th>
<th>Angle of view</th>
<th>Working Distance* [mm]</th>
<th>Operation of focus</th>
<th>Operation of iris</th>
<th>Filter thread [mm]</th>
<th>Mount</th>
<th>Weight (approx.) [g]</th>
<th>Sensor size (max.)</th>
<th>TV distortion [%]</th>
<th>Dimension [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF25HA-1B</td>
<td>25</td>
<td>F1.4-F16</td>
<td>19.4° x 14.6° (2/3”)</td>
<td>∞ -150</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>45</td>
<td>Φ29.5 x 29.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HF35HA-1B</td>
<td>35</td>
<td>F1.4-F16</td>
<td>14.3° x 10.8° (2/3”)</td>
<td>∞ -250</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>55</td>
<td>Φ29.5 x 29.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HF50HA-1B</td>
<td>50</td>
<td>F1.6-F22</td>
<td>10.1° x 7.6° (2/3”)</td>
<td>∞ -500</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>55</td>
<td>Φ29.5 x 29.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HF75HA-1B</td>
<td>75</td>
<td>F2.3-F22</td>
<td>8.7° x 6.7° (2/3”)</td>
<td>∞ -1,100</td>
<td>Manual</td>
<td>Manual</td>
<td>M30.5 x 0.5</td>
<td>C-mount</td>
<td>75</td>
<td>Φ29.5 x 48</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* From front of lens barrel

Please download the specification sheet and the drawing data.
<table>
<thead>
<tr>
<th>Product</th>
<th>Focal length [mm]</th>
<th>Iris range (F. no)</th>
<th>Angle of view</th>
<th>Working Distance (max) [mm]</th>
<th>Operation of focus</th>
<th>Operation of iris</th>
<th>Filter thread [mm]</th>
<th>Mount</th>
<th>Weight (approx.) [g]</th>
<th>Sensor size (max.)</th>
<th>TV distortion [%]</th>
<th>Dimension [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF25HA-1B</td>
<td>25</td>
<td>F1.4-F16</td>
<td>19.4 x 14.6 (2/3&quot;)</td>
<td>100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>45</td>
<td>2/3&quot;</td>
<td>-0.19</td>
<td>29.5 x 29.5</td>
</tr>
<tr>
<td>HF35HA-1B</td>
<td>35</td>
<td>F1.6-F22</td>
<td>14.3 x 10.8 (2/3&quot;)</td>
<td>250</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>45</td>
<td>2/3&quot;</td>
<td>0.10</td>
<td>29.5 x 29.5</td>
</tr>
<tr>
<td>HF50HA-1B</td>
<td>50</td>
<td>F2.3-F22</td>
<td>10.7 x 7.6 (2/3&quot;)</td>
<td>500</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>45</td>
<td>2/3&quot;</td>
<td>0.06</td>
<td>29.5 x 29.5</td>
</tr>
<tr>
<td>HF75HA-1B</td>
<td>75</td>
<td>F2.8-F22</td>
<td>6.7 x 5.0 (2/3&quot;)</td>
<td>100</td>
<td>Manual</td>
<td>Manual</td>
<td>M25.5 x 0.5</td>
<td>C-mount</td>
<td>55</td>
<td>2/3&quot;</td>
<td>0.36</td>
<td>29.5 x 48</td>
</tr>
</tbody>
</table>

* From front of lens barrel.

Please download the specification sheet and the drawing data.
This product is for sale while stock lasts.

**CF series 3CCD, 1/3”**

- **Close**
- **89.1°x 69.3° [mm]**

Please download the specification sheet and the drawing data.

*From front of lens barrel*
### TF series 3CCD, 1/3"

#### TF2.8DA-8
- **Focal length (mm)**: 2.8
- **Iris range (F. no)**: F2.2-F16 - Close
- **Angle of view**: 64° x 49° (1/3"
- **Working Distance** [mm]: 50
- **Operation of iris**: Manual
- **Operation of focus**: Manual
- **Filter thread [mm]**: M25 x 0.5
- **Mount**: C-mount
- **Weight (approx.) [g]**: 51
- **Sensor size (max.)**: 2/3"
- **TV distortion [%]**: -0.31
- **Dimension [mm]**: 51 x 76

#### TF4DA-8
- **Focal length (mm)**: 4
- **Iris range (F. no)**: F2.2-F16 - Close
- **Angle of view**: 89° x 69° (1/3"
- **Working Distance** [mm]: 75
- **Operation of iris**: Manual
- **Operation of focus**: Manual
- **Filter thread [mm]**: M27 x 0.5
- **Mount**: C-mount
- **Weight (approx.) [g]**: 280
- **Sensor size (max.)**: 1/3"
- **TV distortion [%]**: -3.77
- **Dimension [mm]**: 51 x 75.5

#### TF15DA-8B
- **Focal length (mm)**: 15
- **Iris range (F. no)**: F2.2-F16 - Close
- **Angle of view**: 18° x 13.5° (1/3"
- **Working Distance** [mm]: 110
- **Operation of iris**: Manual
- **Operation of focus**: Manual
- **Filter thread [mm]**: M30.5 x 0.5
- **Mount**: C-mount
- **Weight (approx.) [g]**: 290
- **Sensor size (max.)**: 1/3"
- **TV distortion [%]**: -4.27
- **Dimension [mm]**: 51 x 75

#### TF25DA-8B
- **Focal length (mm)**: 25
- **Iris range (F. no)**: F2.2-F16 - Close
- **Angle of view**: 11° x 8° (1/3"
- **Working Distance** [mm]: 235
- **Operation of iris**: Manual
- **Operation of focus**: Manual
- **Filter thread [mm]**: M49 x 0.75
- **Mount**: C-mount
- **Weight (approx.) [g]**: 700
- **Sensor size (max.)**: 1/3"
- **TV distortion [%]**: -4.79
- **Dimension [mm]**: 51 x 76

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*From front of lens barrel

*This product is for sale while stock lasts.

TF series 3CCD, 1/3"

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* From front of lens barrel

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For your safety
Be certain to read the instructions for use before using any equipment.

Authorized Fujifilm Service Agent.

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