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FE185C057HA-1

FUJINON FÜ JEFII M

Technical Datasheet

2/3"



Fujinon FE185 Series



Fujifilm's Fujinon Super Wide Angle FE185 series lenses offer a 5 Megapixel Resolution and are suitable for 2/3" (FE185C057HA-1) and 1" (FE185C086HA-1) format sensors. These ultra-wide angle lenses offer a low cost solution for capturing an ultra wide field of view

Specification Highlights

FOCAL LENGTH: 1.8 mm

2/3" **FORMAT:**

PIXEL SIZE: 3.45 µm LENS MOUNT: C-Mount

APERTURE:

F1.4-F16

WORKING DISTANCE:

100 mm - Infinity

FILTER THREAD:

WEIGHT: 135 grams

RESOLUTION MP: 5 MP

LENS CLASS: Fixed Focal Length

N/A



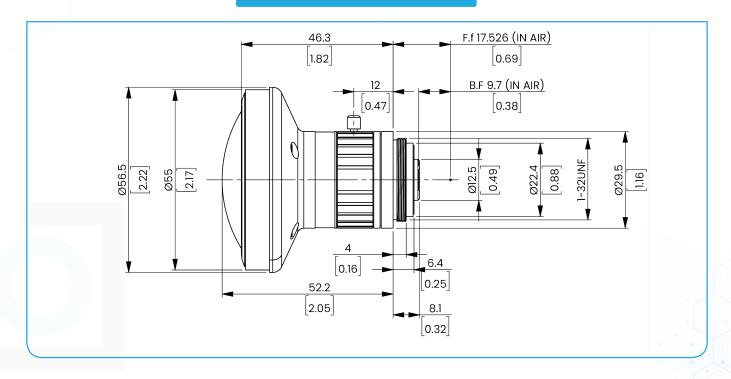




Full Specifications

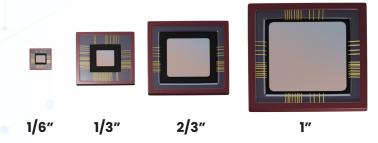
Focal Length	1.8 mm	Flange Back	17.526 mm	
Focal Length Design Value	1.78 mm	Entrance Pupil Position (From Mount)	Not Specified	
Iris Range (f-number)	F1.4-F16	Exit Pupil Position (From Image Plane)	-61 mm	
Angle of View	185° x 185° (2/3″)	Front Principal Point (From Mount)	-37.55 mm	
Working Distance (From Front of Lens Barrel)	100 mm - Infinity	Rear Principal Point (From Mount)	15.75 mm	
Operation of Focus	Fixed	Distance Between Principal Points	53.30 mm	
Operation of Iris	Manual	TV Distortion	-0.8% (y=f*θ)	
Filter Thread	N/A	Dimensions	φ56.5 × 60.3	
Mount	C-Mount	Chief Ray Angle	Not Specified	
Weight	135 Grams	Relative Illumination (Aperture F4.0; Image Height at Diagonal)	Not Listed	
Sensor Size (Standard)	2/3" (3.45 μm)	Relative Illumination (Aperture at Full Open; Image Height at Diagonal)	74%	
Back Focal Length (In Air)	9.70 mm	Operation Temperature	-10°C - +50°C	

Dimensions









Sensor Formats

It is important to make sure you size your lens to the correct sensor size (format). The image you get from a 2/3" format lens will provide a smaller Field of View when used with a 1/3" format sensor than it will provide when used with a 2/3" format sensor, even with the same working distance



Sensor Size Compatibility Chart

	Model	Compatible format sizes						Focal length		
		4/3	1.1	1	1/1.2	2/3	1/1.8	1/2	1/3	(mm)
	FE185C057HA-1	-	-	-	-	•	•	•	•	1.8
	FE185C086HA-1	-	-	•	•	•	•	•	•	2.7

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

Please note that not all sizes of sensors are listed on this chart. It is generally okay to use larger format lenses with smaller format sensors, but not the other way around



Properly Sized Lens Format

A camera with a properly sized lens will project an image that will cover the whole sensor



Undersized Lens Format

A camera with an undersized lens format will project an image that will not cover the whole sensor. This will cause vignetting of the image





CF-HA SERIES LENSES



FE185C057HA-1 WORKING DISTANCE: 100 mm - Infinity

FOCAL LENGTH: 1.8 mm APERTURE: F1.4-F16

FORMAT: 2/3" FILTER THREAD: N/A ORDER NOW 📜



FE185C086HA-1 WORKING DISTANCE: 200 mm - Infinity

FOCAL LENGTH: 2.7 mm **APERTURE:** F1.8-F16

FORMAT:

N/A **FILTER THREAD:**





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VIEW SERIES



FUJINON LENS SERIES

HF-HA-1S

FOCAL LENGTH: 6 mm, 9 mm, 12.5 mm 16 mm, 25 mm, 35 mm

50 mm, 75 mm

PIXEL SIZE: FORMAT:

RESOLUTION:

 $6.2 \, \mu m$ 2/3"

1.5 MP

FOCAL LENGTH:

12.5 mm, 16 mm, 25 mm 35 mm, 50 mm, 75 mm

PIXEL SIZE: FORMAT:

 $3.45 \mu m$ 2/3"

RESOLUTION: 5 MP

FOCAL LENGTH: 6 mm, 8 mm, 12 mm 16 mm, 25 mm

35 mm, 50 mm

PIXEL SIZE: **FORMAT:**

 $3.45 \mu m$ 2/3"

RESOLUTION: 5 MP

FOCAL LENGTH: 8 mm, 12 mm, 16 mm

25 mm, 35 mm

łF−XA−1F

HF-XA-5M

PIXEL SIZE: FORMAT:

RESOLUTION:

 $3.45 \mu m$

2/3" 5 MP

FOCAL LENGTH:

8 mm, 12 mm, 16 mm

25 mm, 35 mm

PIXEL SIZE: FORMAT:

 $2.1 \, \mu m$ 2/3"

RESOLUTION: 12 MP

FOCAL LENGTH:

8 mm, 12 mm, 16 mm

25 mm, 35 mm, 50 mm



F-ZA-1S

PIXEL SIZE: FORMAT:

RESOLUTION:

 $2.74 \mu m$

1.1"

23 MP

FOCAL LENGTH:

12.5 mm, 16 mm, 25 mm 35 mm, 50 mm, 75 mm



PIXEL SIZE: FORMAT:

 $7.4 \, \mu m$

1"

RESOLUTION: 1.5 MP



6 mm, 9 mm, 12.5 mm 16 mm, 25 mm, 35 mm

50 mm, 75 mm

PIXEL SIZE:

 $6.2 \, \mu m$

FORMAT:

2/3"

VIEW SERIES

FE185

RESOLUTION: 1.5 MP

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