

## FL-CC-5MX lenses

Optical performance is equal to other companies' declared 12MP lenses,



**NEW!**

		FL-CC1218-5MX	FL-CC1618-5MX	FL-CC2518-5MX	FL-CC3524-5MX
<b>Resolution</b>		5 Mega-pixel and over			
<b>Format size</b>		2/3" format			
<b>Focal length</b>		12mm	16mm	25mm	35mm
<b>Maximum aperture ratio</b>		1:1.8			1:2.4
<b>Iris range</b>		1.8~16			2.4~16
<b>Mount</b>		C			
<b>Horizontal angle of view</b>	1/3" format	22.7°	17.1°	11.0°	7.8°
	1/2" format	30.0°	22.7°	14.6°	10.4°
	1/1.8" format	33.6°	25.4°	16.4°	11.7°
	2/3" format	40.5°	30.9°	20.0°	14.3°
<b>Minimum object distance</b>		0.1m			
<b>Back focal length</b>		13.2mm	13.4mm	13.6mm	14.3mm
<b>Filter size</b>		30.5 P=0.5mm			
<b>Dimensions</b>		φ33×47mm		φ33×50mm	φ33×65.5mm
<b>Weight</b>		85g	80g	68g	100g

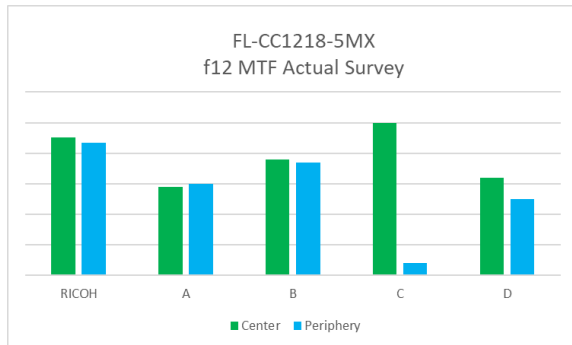
FOV chart,

WD	FL-CC1218-5MX f=12mm F1.8		FL-CC1618-5MX f=16mm F1.8		FL-CC2518-5MX f=25mm F1.8		FL-CC3524-5MX f=35mm F2.4	
	V	H (mm)	V	H (mm)	V	H (mm)	V	H (mm)
100	60.9	81.2	47.3	63.0	24.0	32.0	18.6	24.8
125	74.7	99.6	57.7	76.9	30.6	40.8	23.3	31.1
150	88.5	118	68.1	90.8	37.2	49.7	28.1	37.4
175	102.3	136.4	78.5	104.7	43.8	58.5	32.8	43.6
200	116.1	154.8	88.9	118.5	50.4	67.3	37.5	49.9
225	129.9	173.2	99.2	132.3	57.0	76.1	42.2	56.2
250	143.6	191.5	109.6	146.1	63.6	84.9	46.9	62.5
275	157.4	209.9	119.9	159.9	70.3	93.7	51.6	68.7
300	171.2	228.2	130.3	173.7	76.9	102.5	56.3	75.0
350	198.7	265	150.9	201.2	90.1	120.1	65.7	87.5
400	226.3	301.7	171.6	228.8	103.3	137.7	75.1	100.1
450	253.7	338.3	192.3	256.3	116.5	155.3	84.5	112.6
500	281.3	375.1	212.9	283.9	129.7	172.9	93.9	125.1

WD (working distance) is object ~ L1 vertex / There is possibility to move around it. The data is guide simulation, so it depends on the use condition.

## ✓ JIA S-RANK : High MTF result throughout to the edge

These lenses have a high resolution of over 147 lp/mm from the center to the periphery, that their design satisfies S Rank standards by JIA (Japan Industrial Imaging Association).



[A] Other company's 5M.

It seems large distortion caused lower MTF result.

[B] Other company's 12M.

[C] Other company's 5M.

The periphery is very low instead of higher MTF result at center.

[D] Other company's 10M.

lens : 16 mm focal length, Fno.1.8

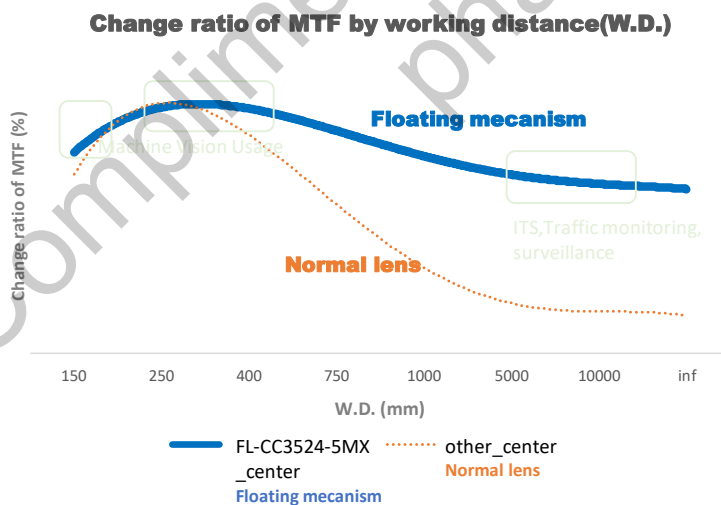
camera : 2/3 format ( $3.45 \mu\text{m} \times 3.45 \mu\text{m}$ )

object : bar code on the edge of the captured image

W.D. : 1030 mm

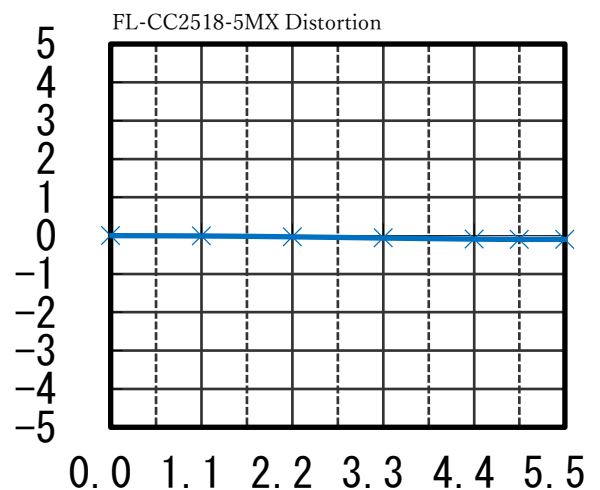
## ✓ Floating focusing mechanism

From infinity right down to their minimum object distance, demonstrating maximum performance at any magnification



## ✓ Achieves low distortion

TV distortion is less than 0.1%



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