



Vision Light Tech

creating optical solutions

HIGHLIGHTS OF THE **M112FM** SERIES

- Whole series optically designed for both 1/1.2" (5.86 μ m) and 2/3" (3.45 μ m) sensors
- High resolution and contrast power with low distortion
- From 6mm to 75mm whole range with 8 different focal lengths for a large variety of applications
- Extreme compact thank to only 29mm lens barrel diameter
- Whole series is compatible with M27 P:0,5mm size optical filters*
- High transmission rates even out of visible light range
- Very large image circles covering up to 1.1"***
- M112FM06 (6mm) delivered with detachable filter mount adapter, changing the max. diameter from 60mm to 38mm for extremely small setup size even for 6mm
- All lenses delivered with 2 types of screw sets for extended flexibility and optimal compactness

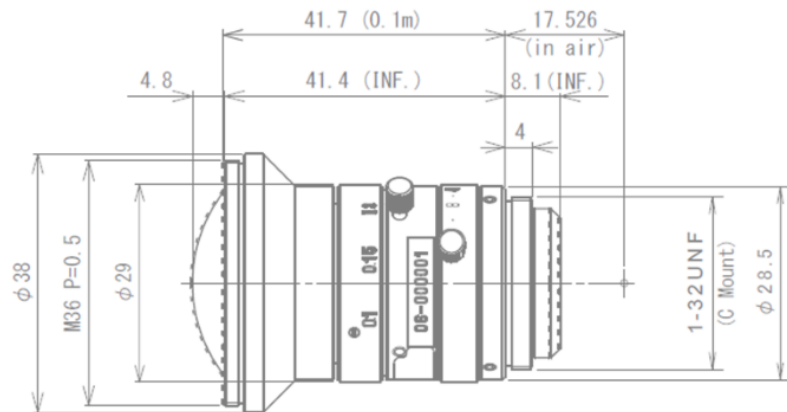
*: Except for M112FM06 and M112FM08

***: Depending on focal length, see details in further pages

M112FM06



- Focal length 6mm
- Aperture F/2.8 ~ F/16
- Filter size M58 P=0.75mm
- Exit Pupil Position -39.24mm or more
- TV Distortion -1.99%
- M.O.D. 100mm
- Max. Diameter 38.0mm *
- Weight 115g **
- Operating Temp. -20°C ~ +60°C

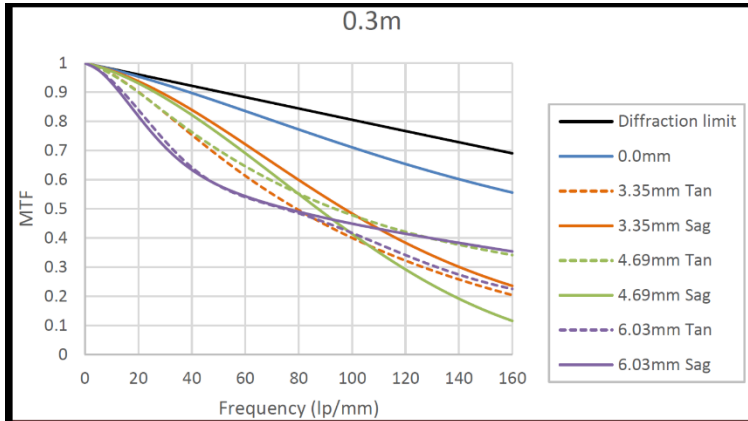


Angle of View	1/1.2"	4:3	87.7° x 70.1°
		16:9	93.1° x 59.0°
	2/3"	4:3	75.5° x 59.2°
		16:3	80.8° x 49.3°

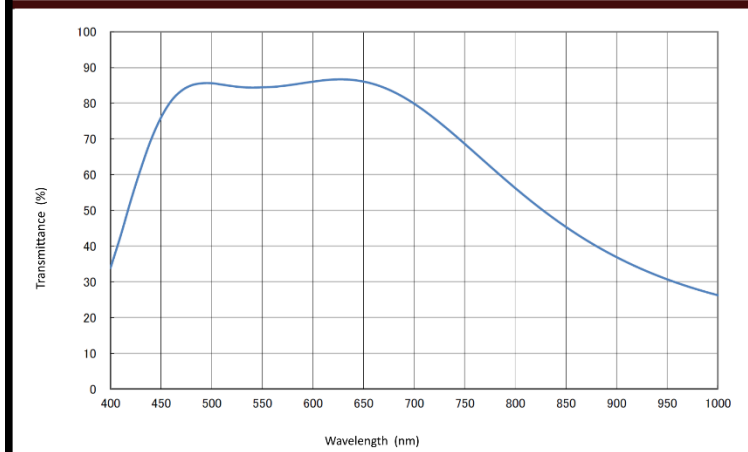
*: 60mm with detachable filter mount adapter

** : Incl. filter mount adapter

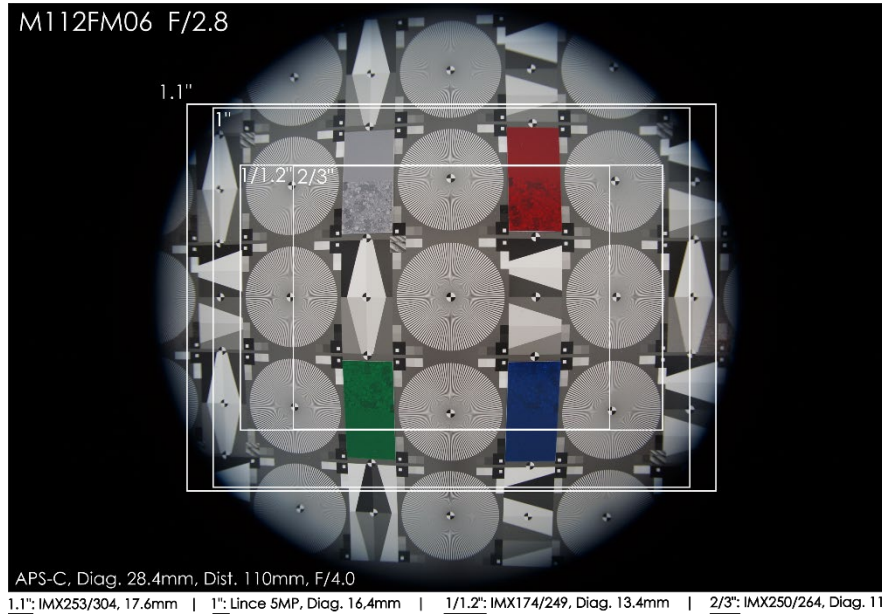
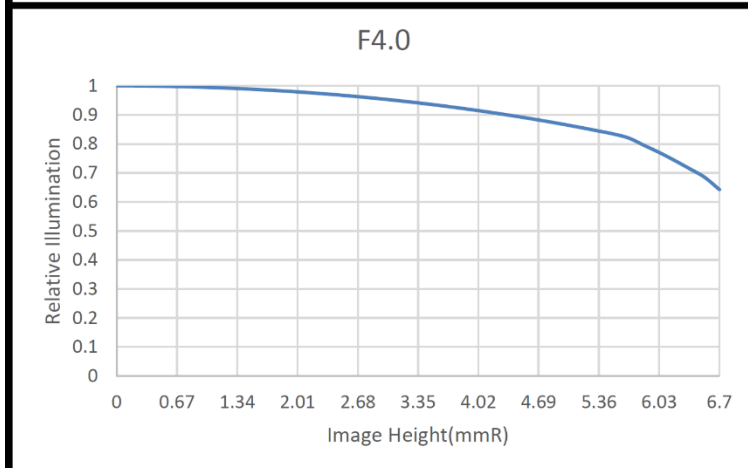
MTF Curves



Transmittance of Wave Lengths



Relative Illumination on Image Circle



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

M112FM06 6mm, F/2.8

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm		Imager 2/3" 8.8mm x 6.6mm	
	WD	Coverage	WD	Coverage
W/O	1000.0	1946.5 × 1423.3	1000.0	1569.8 × 1151.8
	100.0	213.6 × 155.8	100.0	172.0 × 126.0
0.5	60.9	138.2 × 100.7	60.9	111.2 × 81.4
	32.9	84.3 × 61.3	32.9	67.7 × 49.6
1	25.2	69.6 × 50.6	25.2	55.8 × 40.8
	16.5	52.8 × 38.3	16.5	42.3 × 30.9
1.5	13.3	46.7 × 33.8	13.3	37.3 × 27.3
	9.1	38.5 × 27.8	9.1	30.8 × 22.5
5		×		×
10		×		×
		×		×
15		×		×
		×		×
20		×		×
		×		×
25		×		×
		×		×
30		×		×
		×		×
35		×		×
		×		×
40		×		×
		×		×

This table shows the shooting distance and coverage by using different extension rings

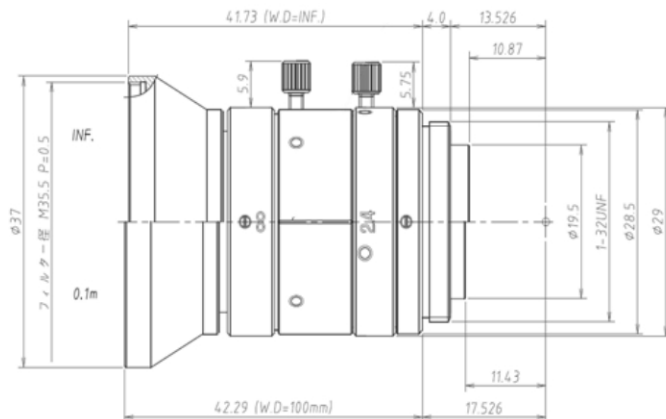
Upper column : Focus the infinity position. (In W/O, focus at 1.0m)

Lower column : Focus at the closest position
Taking distance : From barrel top to object

M112FM08

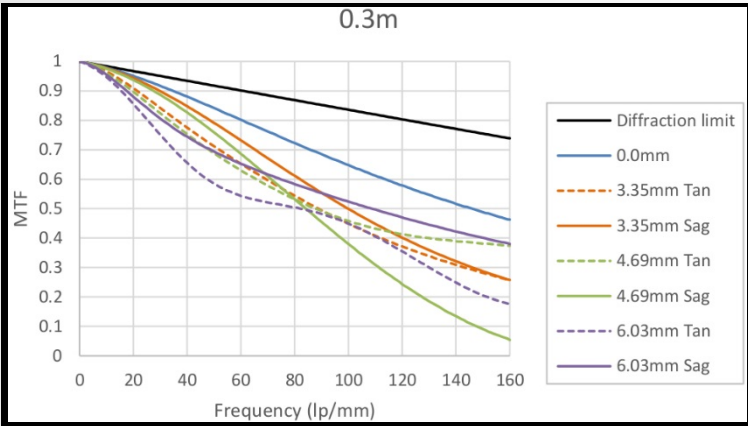


- Focal length 8mm
- Aperture F/2.4 ~ F/16
- Filter size M35.5 P=0.5mm
- Exit Pupil Position -47.8mm
- TV Distortion -1.47%
- M.O.D. 100mm
- Max. Diameter 37.0mm
- Weight 86g
- Operating Temp. -20°C ~ +60°C

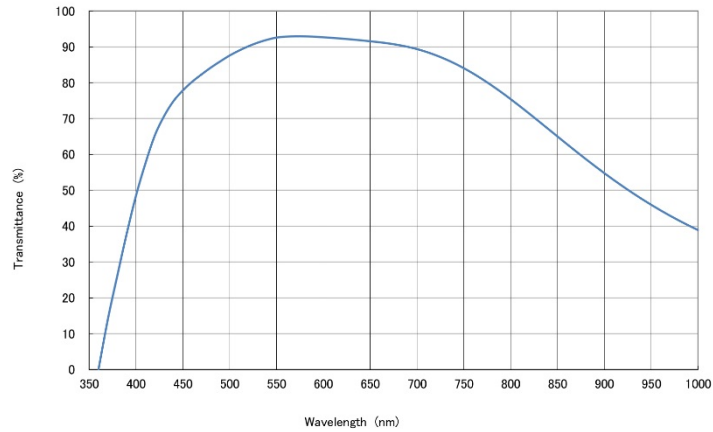


Angle of View	1/1.2"	4:3	70.3° x 54.9°
		16:9	75.3° x 45.6°
	2/3"	4:3	59.5° x 45.8°
		16:3	64.0° x 37.8°

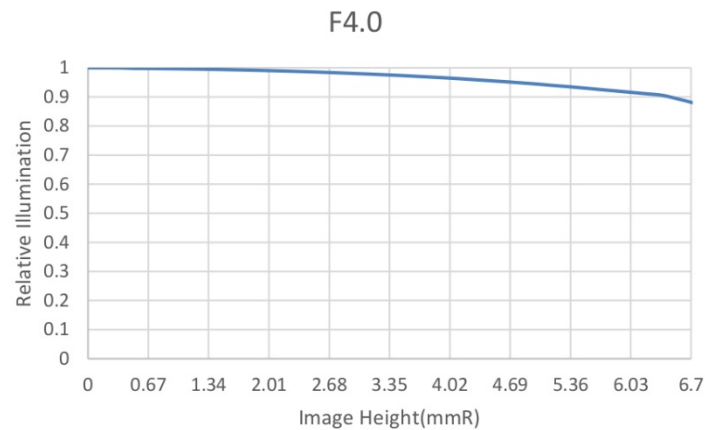
MTF Curves



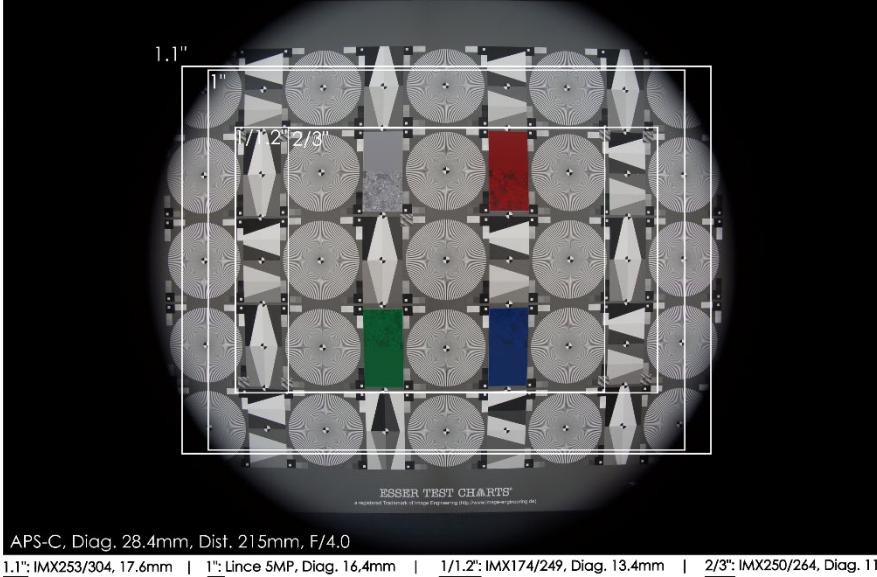
Transmittance of Wave Lengths



Relative Illumination on Image Circle



M112FM08 F/2.4



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

APS-C, Diag. 28.4mm, Dist. 215mm, F/4.0
 1.1": IMX253/304, 17.6mm | 1": Lince SMP, Diag. 16.4mm | 1/1.2": IMX174/249, Diag. 13.4mm | 2/3": IMX250/264, Diag. 11.1

M112FM08 8mm, F/2.4

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm		Imager 2/3" 8.8mm x 6.6mm	
	WD	Coverage	WD	Coverage
W/O	1000.0	1428.1 × 1052.4	1000.0	1157.9 × 855.7
	100.0	160.5 × 118.0	100.0	129.9 × 95.9
0.5	114.7	181.2 × 133.3	114.7	146.7 × 108.3
	46.7	85.4 × 62.7	46.7	69.0 × 50.9
1	49.9	89.9 × 66.0	49.9	72.7 × 53.6
	27.3	58.0 × 42.5	27.3	46.8 × 34.5
1.5	28.9	60.4 × 44.2	28.9	48.7 × 35.9
	17.4	44.1 × 32.3	17.4	35.5 × 26.2
5		×		×
10		×		×
		×		×
15		×		×
		×		×
20		×		×
		×		×
25		×		×
		×		×
30		×		×
		×		×
35		×		×
		×		×
40		×		×
		×		×

This table shows the shooting distance and coverage by using different extension rings

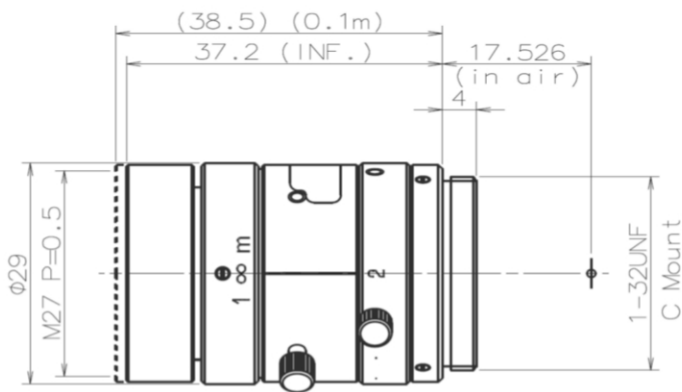
Upper column : Focus the infinity position.
 (In W/O, focus at 1.0m)

Lower column : Focus at the closest position
 Taking distance : From barrel top to object

M112FM12

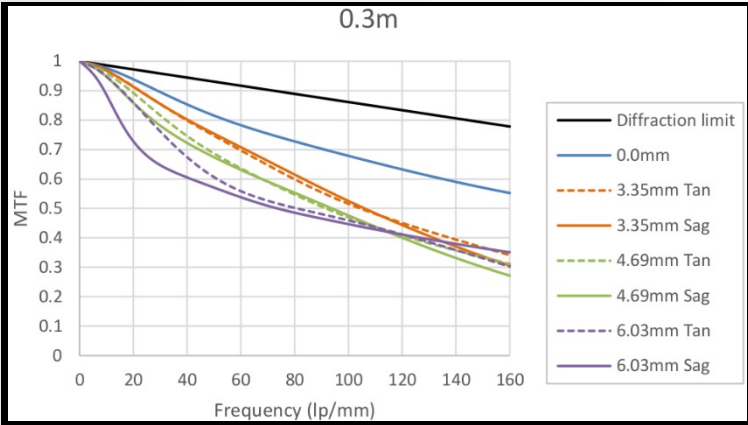


- Focal length 12mm
- Aperture F/2.0 ~ F/16
- Filter size M27 P=0.5mm
- Exit Pupil Position -35.5mm
- TV Distortion -0.97%
- M.O.D. 100mm
- Max. Diameter 29.0mm
- Weight 64g
- Operating Temp. -20°C ~ +60°C

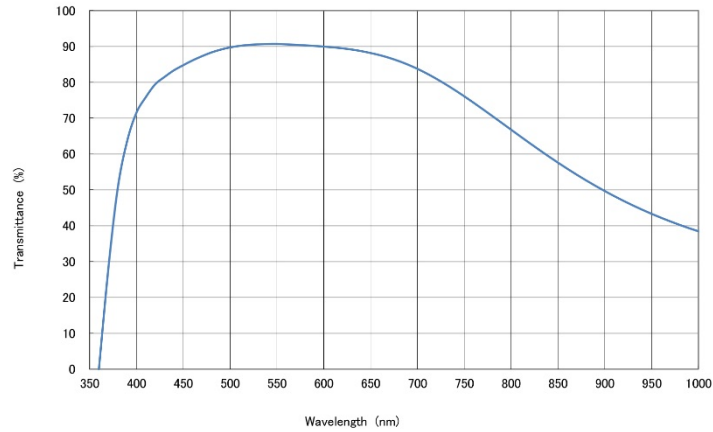


Angle of View	1/1.2"	4:3	49.2° x 37.6°
		16:9	53.2° x 30.6°
	2/3"	4:3	40.9° x 31.1°
		16:3	44.4° x 25.5°

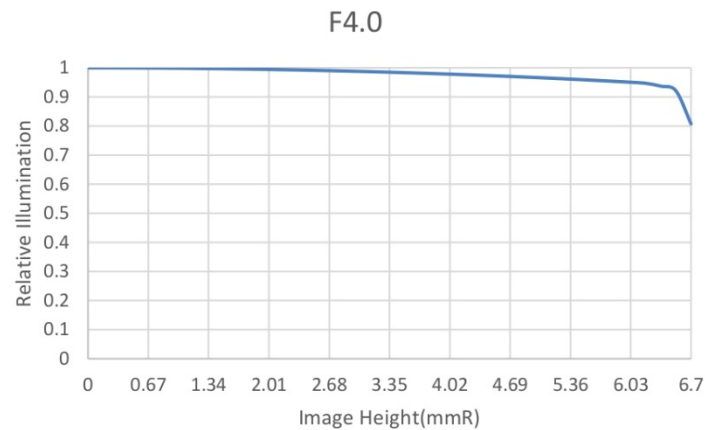
MTF Curves



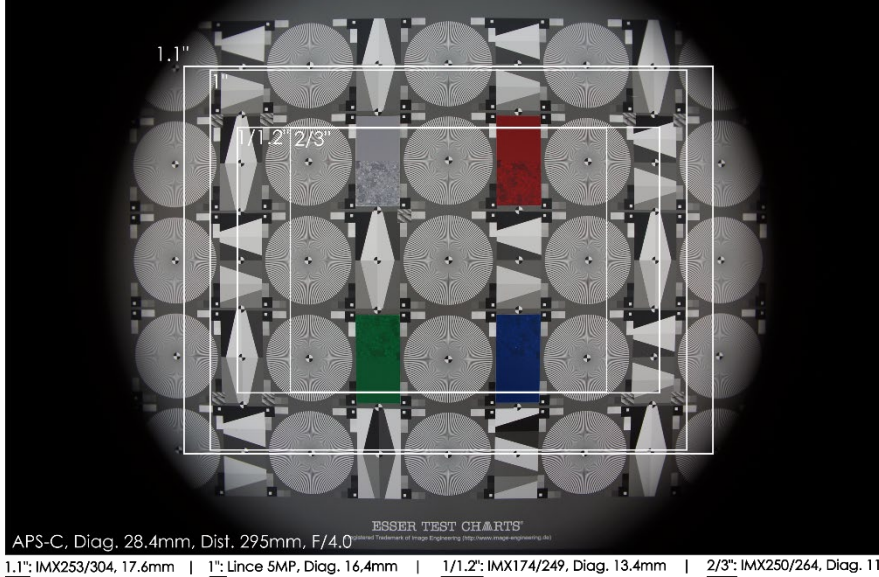
Transmittance of Wave Lengths



Relative Illumination on Image Circle



M112FM12 F/2.0



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

1.1": IMX253/304, 17.6mm | 1": Lince SMP, Diag. 16.4mm | 1/1.2": IMX174/249, Diag. 13.4mm | 2/3": IMX250/264, Diag. 11.1

M112FM12 12mm, F/2.0

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm		Imager 2/3" 8.8mm x 6.6mm	
	WD	Coverage	WD	Coverage
W/O	1000.0	927.3 × 688.7	1000.0	755.8 × 562.7
	100.0	103.2 × 76.5	100.0	84.0 × 62.5
0.5	271.4	260.2 × 193.1	271.4	212.0 × 157.8
	68.3	74.1 × 54.9	68.3	60.3 × 44.8
1	129.3	130.0 × 96.5	129.3	105.9 × 78.8
	50.5	57.8 × 42.8	50.5	47.0 × 34.9
1.5	82.3	87.0 × 64.5	82.3	70.8 × 52.6
	39.2	47.4 × 35.1	39.2	38.6 × 28.7
5	16.3	26.4 × 19.5	16.3	21.4 × 15.9
	10.6	21.2 × 15.6	10.6	17.2 × 12.7
10	2.2	13.4 × 9.9	2.2	10.8 × 8.0
	0.6	11.9 × 8.8	0.6	9.6 × 7.1
15		×		×
20		×		×
25		×		×
30		×		×
35		×		×
40		×		×

This table shows the shooting distance and coverage by using different extension rings

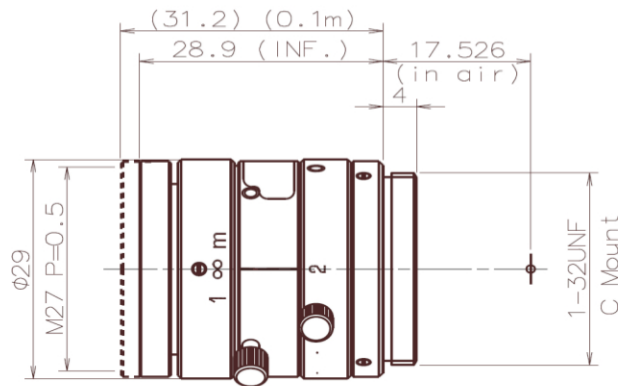
Upper column : Focus the infinity position.
(In W/O, focus at 1.0m)

Lower column : Focus at the closest position
Taking distance : From barrel top to object

M112FM16

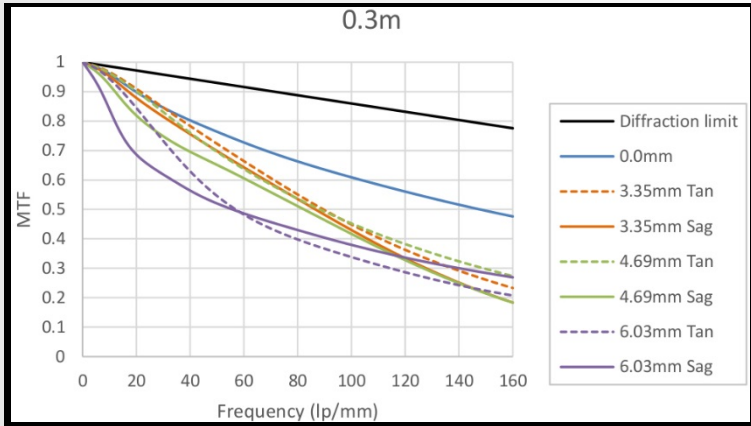


- Focal length 16mm
- Aperture F/2.0 ~ F/16
- Filter size M27 P=0.5mm
- Exit Pupil Position -35.9mm
- TV Distortion -0.56%
- M.O.D. 100mm
- Max. Diameter 29.0mm
- Weight 51g
- Operating Temp. -20°C ~ +60°C

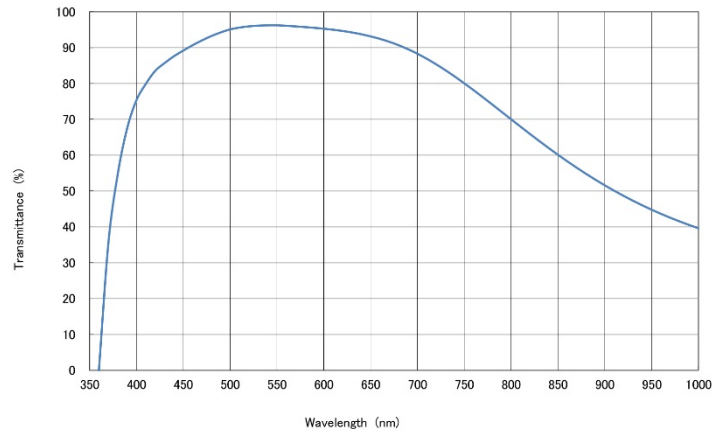


Angle of View	1/1.2"	4:3	37.4° x 28.4°
		16:9	40.5° x 22.3°
	2/3"	4:3	31.0° x 23.4°
		16:3	33.7° x 19.2°

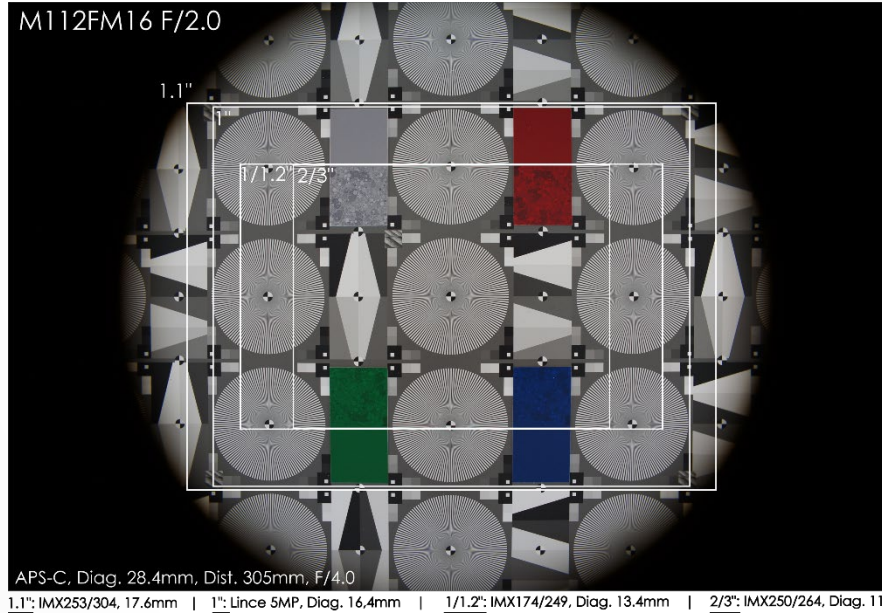
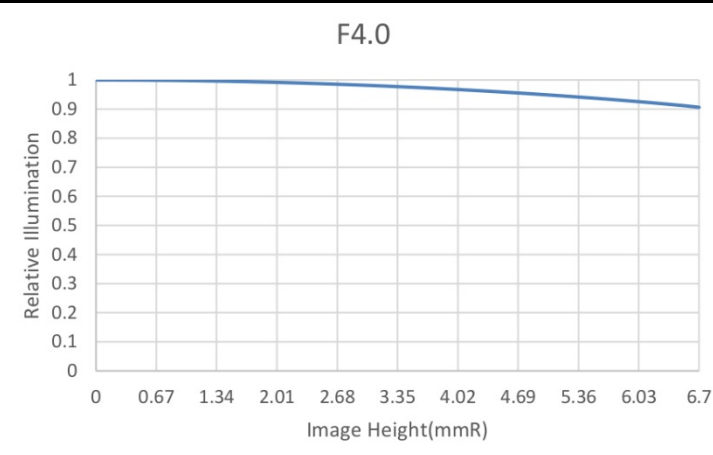
MTF Curves



Transmittance of Wave Lengths



Relative Illumination on Image Circle



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

M112FM16 16mm, F/2.0

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm		Imager 2/3" 8.8mm x 6.6mm	
	WD	Coverage	WD	Coverage
W/O	1000.0	686.5 × 512.5	1000.0	561.7 × 419.7
	100.0	76.9 × 57.2	100.0	62.7 × 46.7
0.5	493.9	343.7 × 256.5	493.9	281.1 × 210.0
	79.6	63.0 × 46.8	79.6	51.4 × 38.3
1	240.7	172.2 × 128.4	240.7	140.8 × 105.1
	65.5	53.4 × 39.7	65.5	43.5 × 32.4
1.5	156.1	114.9 × 85.6	156.1	93.8 × 70.0
	55.1	46.4 × 34.4	55.1	37.8 × 28.1
5	38.3	34.9 × 25.9	38.3	28.4 × 21.2
	22.7	24.2 × 17.9	22.7	19.7 × 14.6
10	13.1	17.7 × 13.1	13.1	14.3 × 10.7
	8.5	14.5 × 10.7	8.5	11.7 × 8.7
15	4.7	11.8 × 8.7	4.7	9.6 × 7.1
	-	-	-	-
20		×		×
		×		×
25		×		×
		×		×
30		×		×
		×		×
35		×		×
		×		×
40		×		×
		×		×

This table shows the shooting distance and coverage by using different extension rings

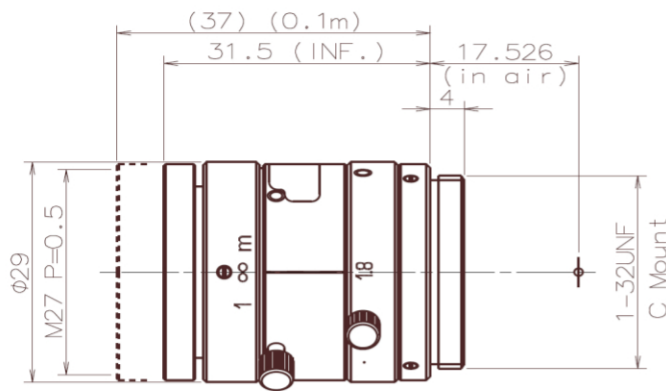
Upper column : Focus the infinity position.
(In W/O, focus at 1.0m)

Lower column : Focus at the closest position
Taking distance : From barrel top to object

M112FM25

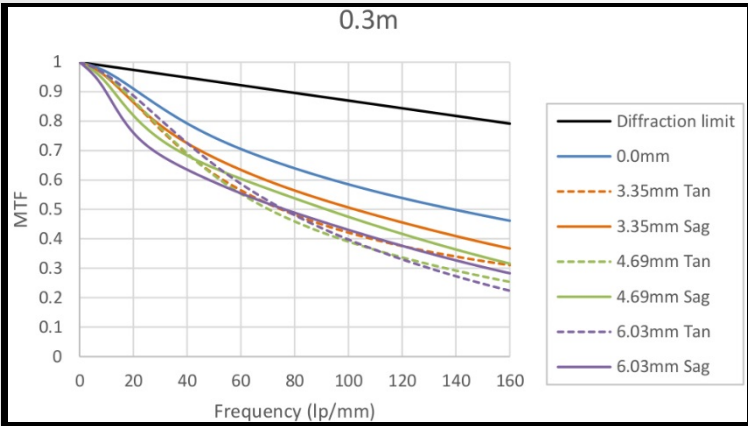


- Focal length 25mm
- Aperture F/1.8 ~ F/16
- Filter size M27 P=0.5mm
- Exit Pupil Position -36.2mm
- TV Distortion -0.09%
- M.O.D. 100mm
- Max. Diameter 29.0mm
- Weight 54g
- Operating Temp. -20°C ~ +60°C

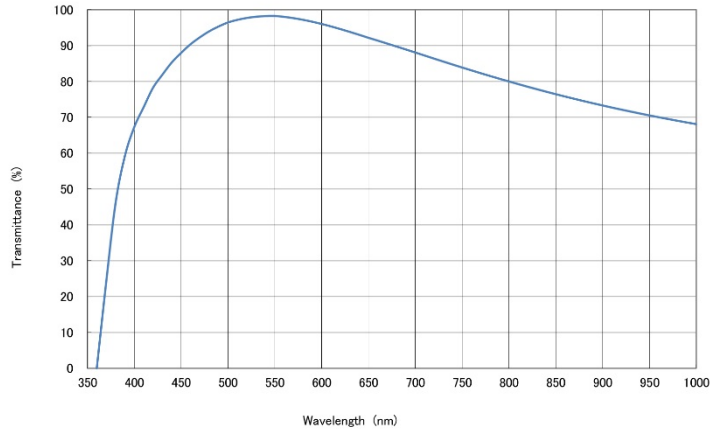


Angle of View	1/1.2"	4:3	24.1° x 18.2°
		16:9	26.2° x 15.0°
	2/3"	4:3	19.9° x 15.0°
		16:3	21.7° x 12.3°

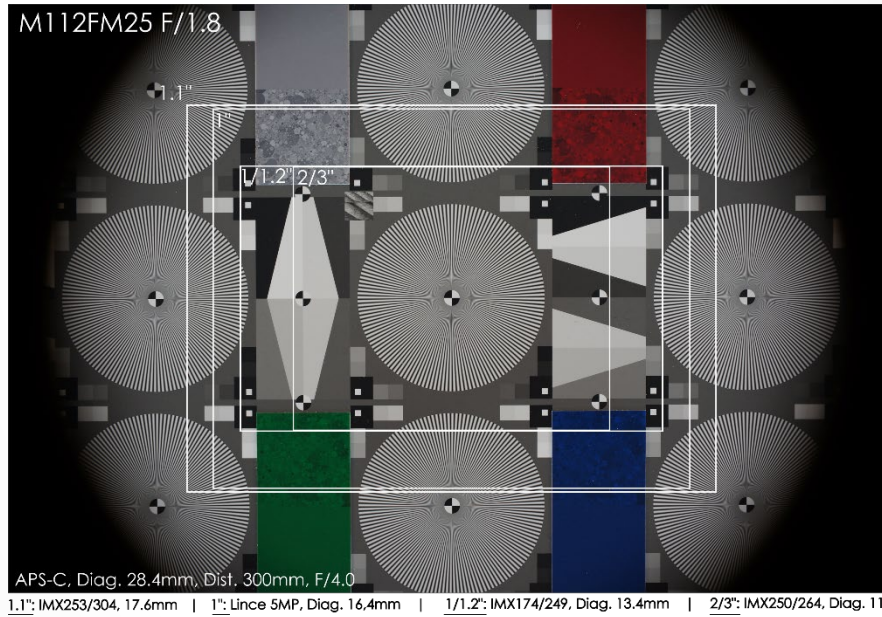
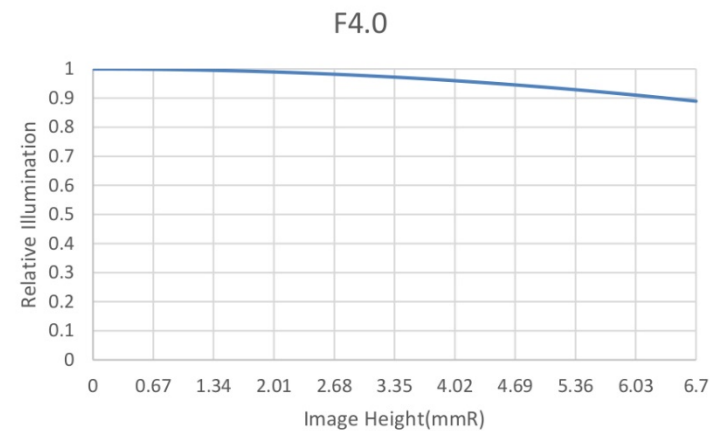
MTF Curves



Transmittance of Wave Lengths



Relative Illumination on Image Circle



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

M112FM25 25mm, F/1.8

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm		Imager 2/3" 8.8mm x 6.6mm	
	WD	Coverage	WD	Coverage
W/O	1000.0	431.5 × 323.7	1000.0	354.3 × 265.8
0.5	1243.2	535.5 × 401.8	1243.2	439.7 × 329.9
1	614.2	266.5 × 199.9	614.2	218.7 × 164.1
1.5	405.7	177.3 × 132.9	405.7	145.5 × 109.1
5	116.0	53.3 × 39.8	116.0	43.6 × 32.7
10	54.8	26.9 × 20.1	54.8	22.0 × 16.5
15	32.2	17.1 × 12.8	32.2	14.0 × 10.5
	34.3	18.0 × 13.5	34.3	14.7 × 11.0
20	22.7	13.0 × 9.7	22.7	10.7 × 8.0
	24.0	13.5 × 10.1	24.0	11.1 × 8.3
25		×		×
30		×		×
		×		×
35		×		×
		×		×
40		×		×
		×		×

This table shows the shooting distance and coverage by using different extension rings

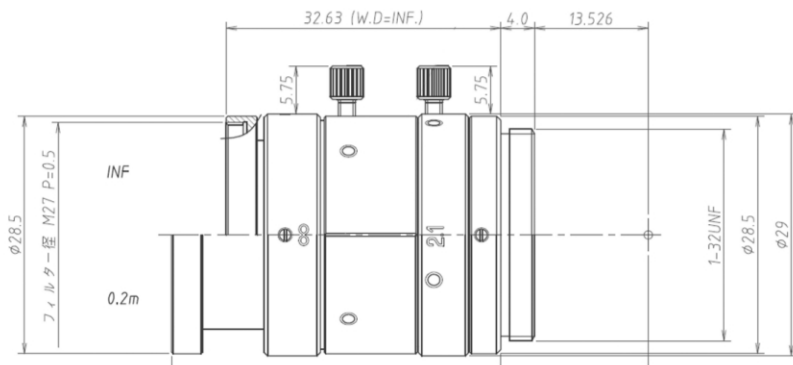
Upper column : Focus the infinity position. (In W/O, focus at 1.0m)

Lower column : Focus at the closest position
Taking distance : From barrel top to object

M112FM35

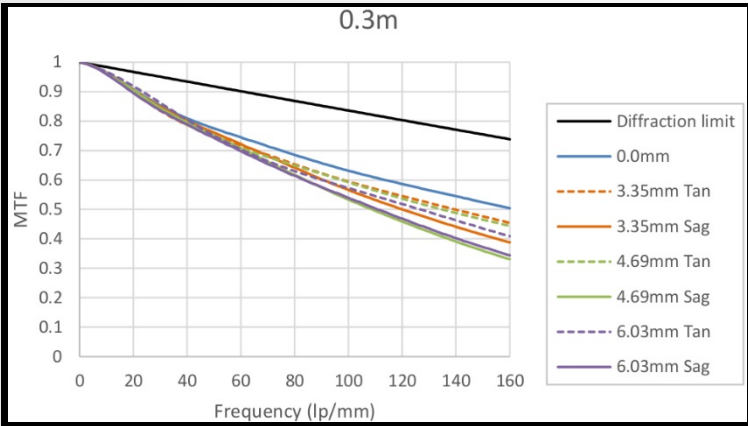


- Focal length 35mm
- Aperture F/2.1 ~ F/16
- Filter size M27 P=0.5mm
- Exit Pupil Position -29.4mm
- TV Distortion 0.05%
- M.O.D. 200mm
- Max. Diameter 29.0mm
- Weight 57g
- Operating Temp. -20°C ~ +60°C

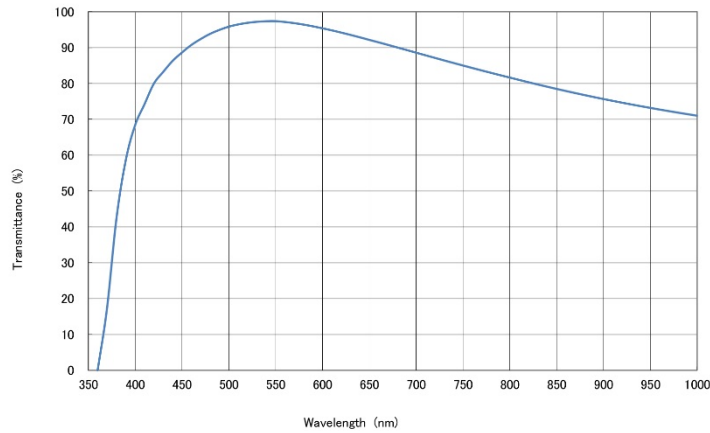


Angle of View	1/1.2"	4:3	17.3° x 13.1°
		16:9	18.8° x 10.7°
	2/3"	4:3	14.3° x 10.7°
		16:3	15.5° x 8.8°

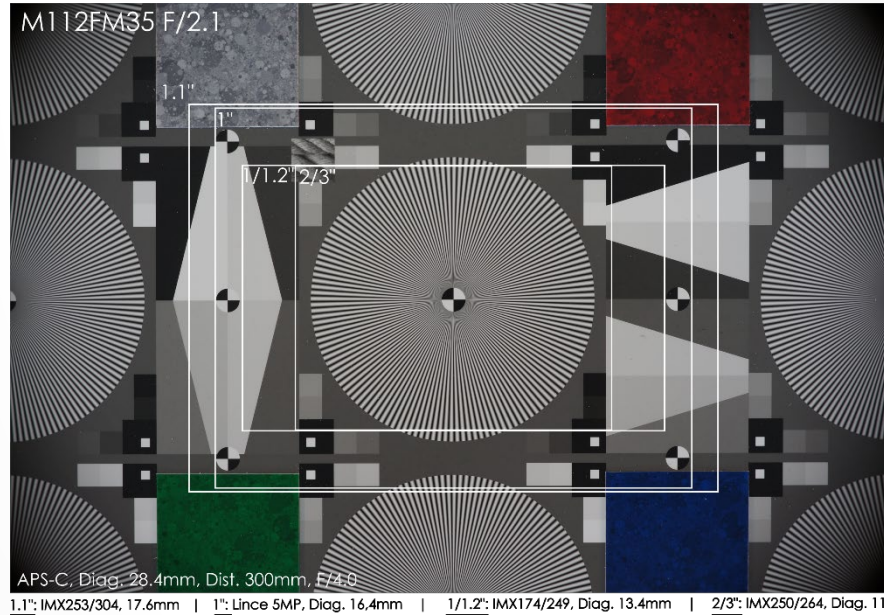
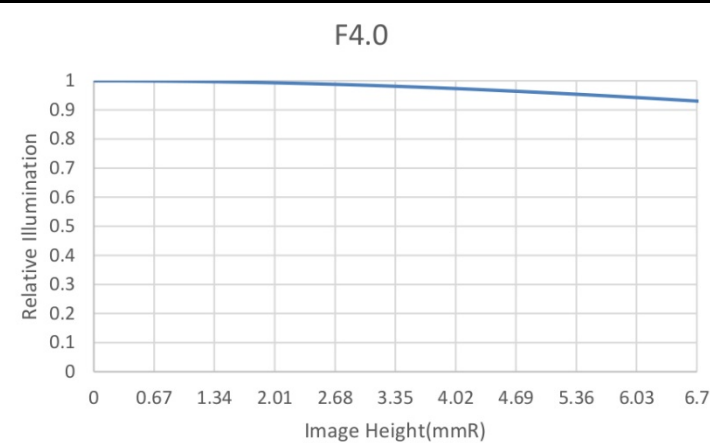
MTF Curves



Transmittance of Wave Lengths



Relative Illumination on Image Circle



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

APS-C, Diag. 28.4mm, Dist. 300mm, F/4.0
 1.1": IMX253/304, 17.6mm | 1": Lince SMP, Diag. 16.4mm | 1/1.2": IMX174/249, Diag. 13.4mm | 2/3": IMX250/264, Diag. 11.1

M112FM35 35mm, F/2.1

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm			Imager 2/3" 8.8mm x 6.6mm		
	WD	Coverage		WD	Coverage	
W/O	1000.0	301.5	× 226.3	1000.0	247.7	× 185.9
	200.0	57.6	× 43.2	200.0	47.3	× 35.4
0.5	2462.3	747.2	× 561.1	2462.3	614.0	× 460.9
	186.5	53.5	× 40.1	186.5	43.9	× 32.9
1	1242.2	375.3	× 281.8	1242.2	308.3	× 231.4
	174.8	49.9	× 37.4	174.8	41.0	× 30.7
1.5	827.8	249.0	× 46.8	827.8	204.5	× 153.5
	164.6	186.9	× 35.1	164.6	38.4	× 28.8
5	254.6	74.3	× 55.7	254.6	61.0	× 45.7
	118.3	32.6	× 24.4	118.3	26.7	× 20.0
10	133.6	37.3	× 27.9	133.6	30.6	× 22.9
	86.2	22.7	× 17.0	86.2	18.7	× 14.0
15	93.4	24.9	× 18.7	93.4	20.5	× 15.3
	69.1	17.5	× 13.1	69.1	14.3	× 10.7
20	73.2	18.7	× 14.0	73.2	15.4	× 11.5
	58.5	14.2	× 10.6	58.5	11.6	× 8.7
25	61.1	15.0	× 11.3	61.1	12.3	× 9.2
	51.2	11.9	× 8.9	51.2	9.8	× 7.3
30	53.0	12.5	× 9.4	53.0	10.3	× 7.7
	45.9	10.3	× 7.7	45.9	8.5	× 6.3
35	47.2	10.7	× 8.0	47.2	8.8	× 6.6
	41.8	9.1	× 6.8	41.8	7.4	× 5.6
40	42.9	9.4	× 7.0	42.9	7.7	× 5.8
	38.6	8.1	× 6.1	38.6	6.6	× 5.0

This table shows the shooting distance and coverage by using different extension rings

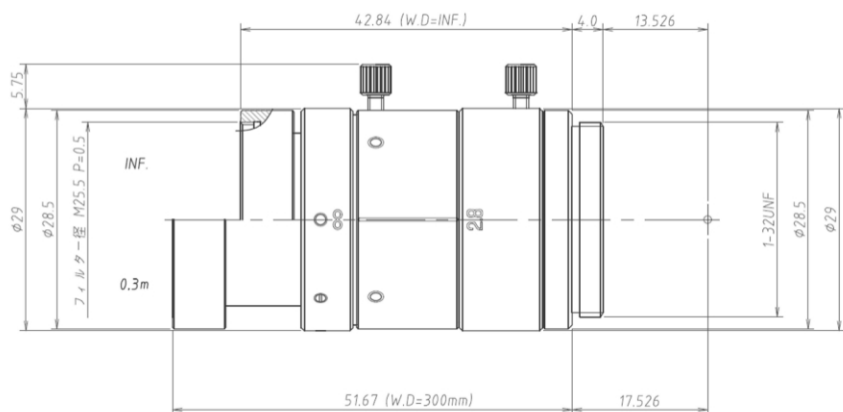
Upper column : Focus the infinity position.
(In W/O, focus at 1.0m)

Lower column : Focus at the closest position
Taking distance : From barrel top to object

M112FM50

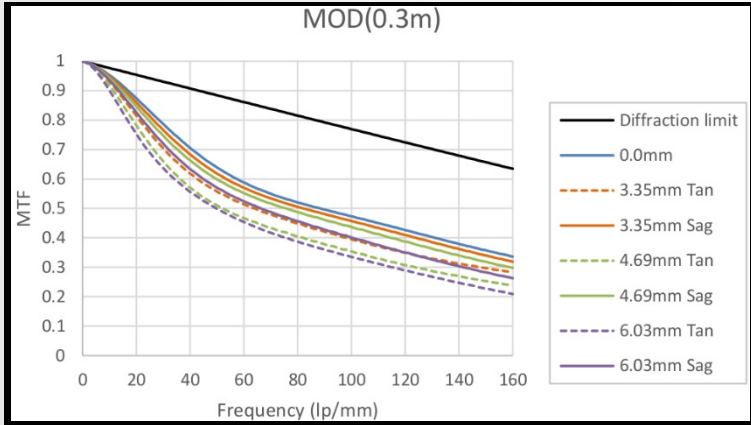


- Focal length 50mm
- Aperture F/2.8 ~ F/16
- Filter size M27 P=0.5mm
- Exit Pupil Position -44.2mm
- TV Distortion 0.08%
- M.O.D. 300mm
- Max. Diameter 29.0mm
- Weight 70g
- Operating Temp. -20°C ~ +60°C

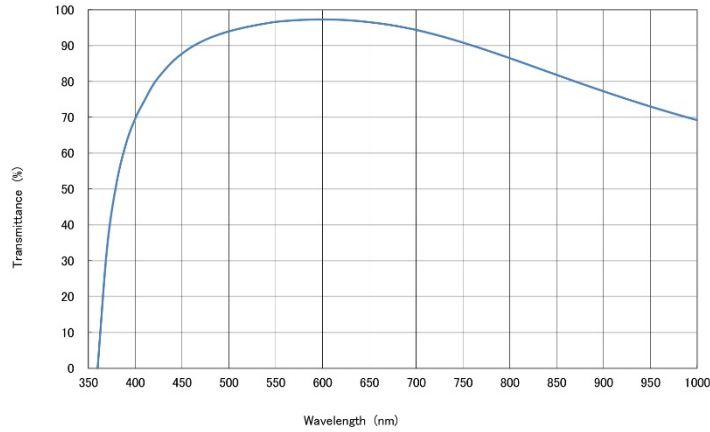


Angle of View	1/1.2"	4:3	12.2° x 9.2°
		16:9	13.2° x 7.5°
2/3"	2/3"	4:3	10.0° x 7.5°
		16:3	10.9° x 6.16°

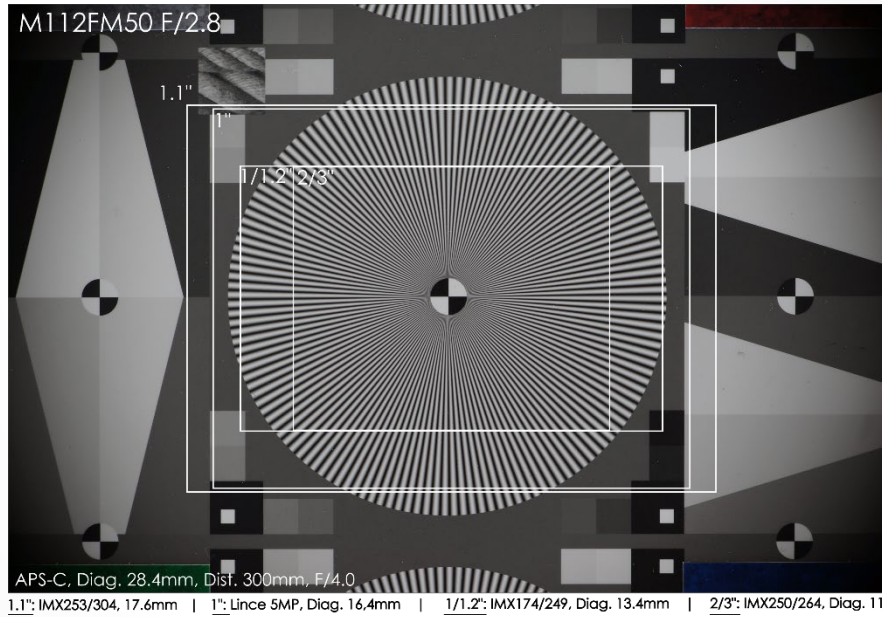
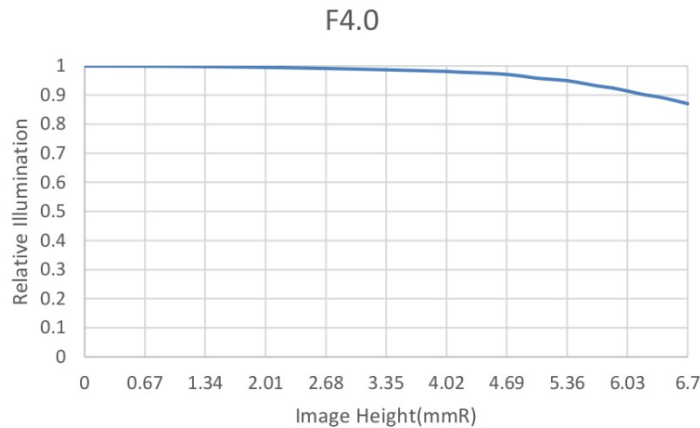
MTF Curves



Transmittance of Wave Lengths



Relative Illumination on Image Circle



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

M112FM50 50mm, F/2.8

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm		Imager 2/3" 8.8mm x 6.6mm	
	WD	Coverage	WD	Coverage
W/O	1000.0	209.5 × 157.3	1000.0	172.1 × 129.2
	300.0	60.2 × 45.2	300.0	49.4 × 37.1
0.5	5244.4	1113.5 × 836.7	5244.4	915.3 × 687.4
	285.0	57.0 × 42.8	285.0	46.8 × 35.1
1	2575.7	545.0 × 409.5	2575.7	448.0 × 336.4
	271.5	54.1 × 40.6	271.5	44.4 × 33.3
1.5	1703.3	359.2 × 269.9	1703.3	295.3 × 221.7
	259.3	51.5 × 38.7	259.3	42.3 × 31.7
5	517.7	106.7 × 80.1	517.7	87.6 × 65.7
	198.6	38.6 × 28.9	198.6	31.6 × 23.7
10	267.8	53.4 × 40.0	267.8	43.8 × 32.8
	151.1	28.4 × 21.3	151.1	23.3 × 17.5
15	184.9	35.6 × 26.7	184.9	29.2 × 21.9
	123.5	22.5 × 16.8	123.5	18.4 × 13.8
20	143.5	26.8 × 20.1	143.5	22.0 × 16.5
	105.5	18.6 × 13.9	105.5	15.3 × 11.4
25	118.7	21.4 × 16.1	118.7	17.6 × 13.2
	92.7	15.8 × 11.9	92.7	13.0 × 9.7
30	102.2	17.9 × 13.4	102.2	14.7 × 11.0
	83.2	13.8 × 10.3	83.2	11.3 × 8.5
35		×		×
40		×		×
		×		×

This table shows the shooting distance and coverage by using different extension rings

Upper column : Focus the infinity position. (In W/O, focus at 1.0m)

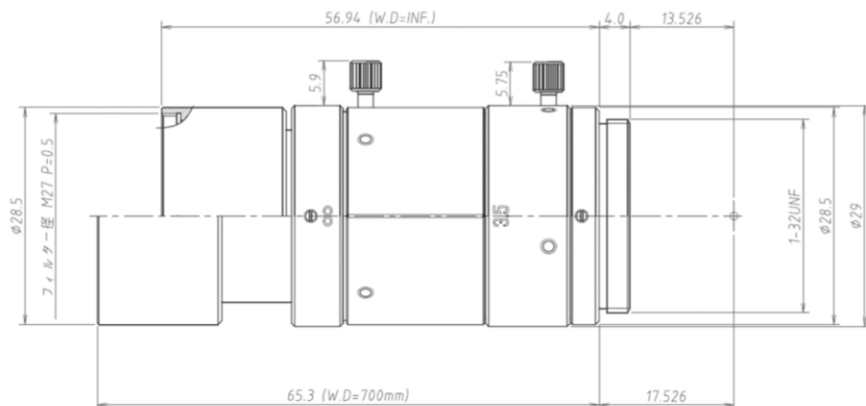
Lower column : Focus at the closest position

Taking distance : From barrel top to object

M112FM75

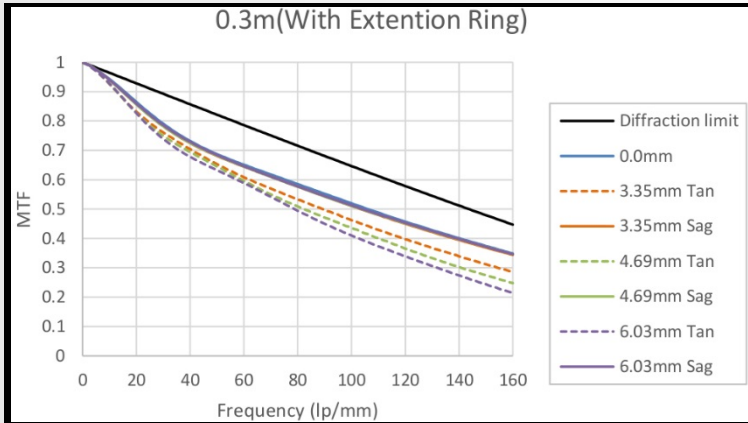


- Focal length 75mm
- Aperture F/3.5 ~ F/16
- Filter size M27 P=0.5mm
- Exit Pupil Position -40.8mm
- TV Distortion 0.03%
- M.O.D. 700mm
- Max. Diameter 28.5mm
- Weight 70g
- Operating Temp. -20°C ~ +60°C

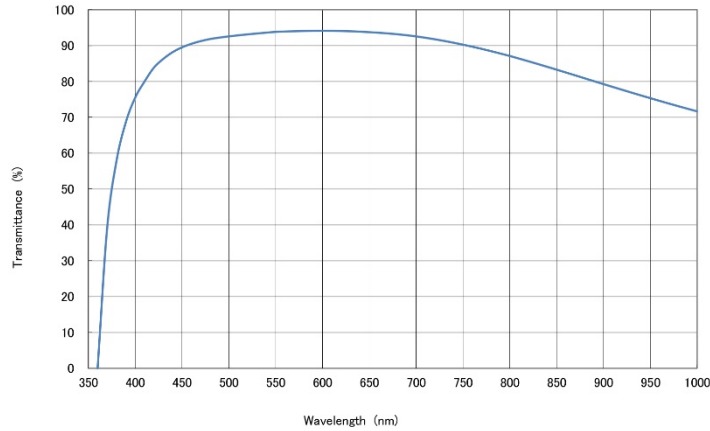


Angle of View	1/1.2"	4:3	8.1° x 6.1°
		16:9	8.9° x 5.0°
	2/3"	4:3	6.7° x 5.0°
		16:3	7.3° x 4.1°

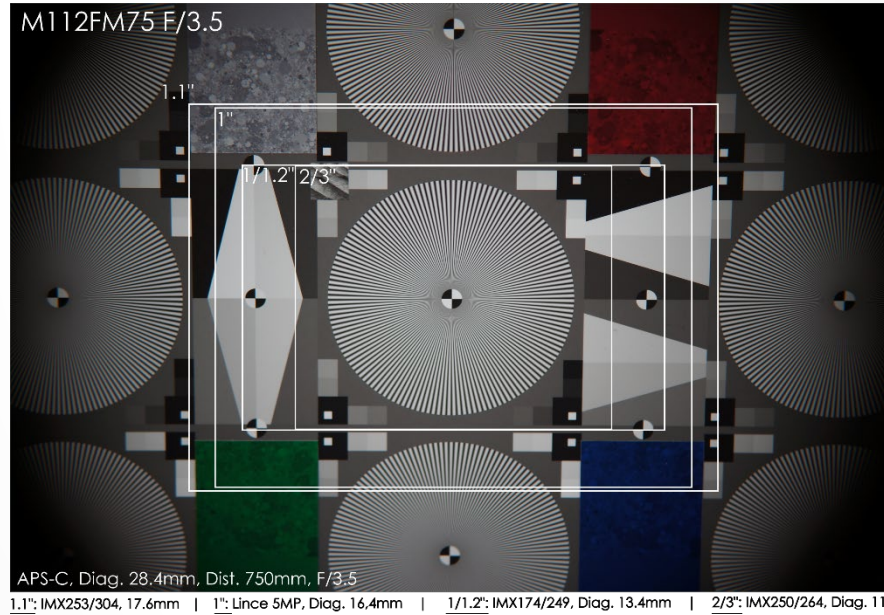
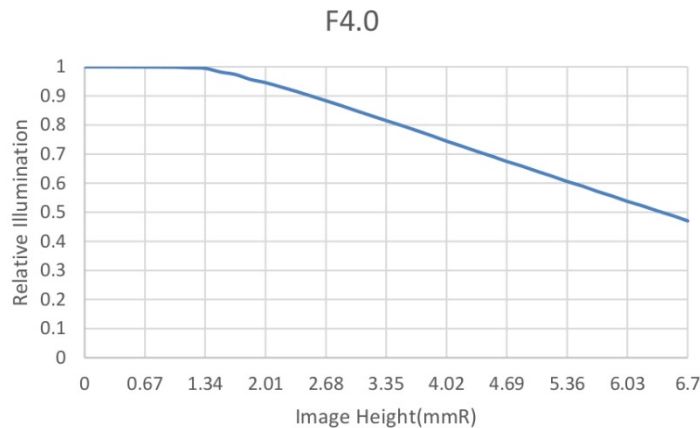
MTF Curves



Transmittance of Wave Lengths



Relative Illumination on Image Circle



Actual image circle on APS-C (28.4mm Ø) sensor with theoretical sensor sizes

APS-C, Diag. 28.4mm, Dist. 750mm, F/3.5
 1.1": IMX253/304, 17.6mm | 1": Lince SMP, Diag. 16.4mm | 1/1.2": IMX174/249, Diag. 13.4mm | 2/3": IMX250/264, Diag. 11.1

M112FM75 75mm, F/3.5

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm		Imager 2/3" 8.8mm x 6.6mm	
	WD	Coverage	WD	Coverage
W/O	1000.0	139.1 x 104.4	1000.0	114.2 x 85.7
	700.0	48.2 x 36.2	700.0	79.2 x 59.4
0.5	12807.3	1816.6 x 1364.7	12807.3	1493.1 x 1121.0
	661.7	90.9 x 68.2	661.7	74.7 x 56.0
1	6007.9	850.6 x 638.9	6007.9	699.0 x 524.8
	627.2	86.0 x 64.5	627.2	70.6 x 53.0
1.5	3840.2	543.0 x 407.8	3840.2	446.2 x 335.0
	595.5	81.5 x 61.2	595.5	67.0 x 50.2
5	1151.2	160.6 x 120.6	1151.2	131.9 x 99.0
	445.3	60.1 x 45.1	445.3	49.4 x 37.0
10	585.8	80.2 x 60.1	585.8	65.8 x 49.4
	330.5	43.8 x 32.8	330.5	35.9 x 26.9
15	398.4	53.5 x 40.1	398.4	43.9 x 32.9
	264.9	34.4 x 25.8	264.9	28.2 x 21.2
20	304.9	40.1 x 30.1	304.9	32.9 x 24.7
	222.5	28.3 x 21.2	222.5	23.3 x 17.4
25	248.9	32.1 x 24.1	248.9	26.4 x 19.8
	192.8	24.1 x 18.1	192.8	19.8 x 14.8
30	211.5	26.8 x 20.1	211.5	22.0 x 16.5
	170.9	21.0 x 15.7	170.9	17.2 x 12.9
35	184.8	22.9 x 17.2	184.8	18.8 x 14.1
	154.0	18.5 x 13.9	154.0	15.2 x 11.4
40	164.8	20.1 x 15.1	164.8	16.5 x 12.4
	140.6	16.6 x 12.5	140.6	13.6 x 10.2

This table shows the shooting distance and coverage by using different extension rings

Upper column : Focus the infinity position.
(In W/O, focus at 1.0m)

Lower column : Focus at the closest position
Taking distance : From barrel top to object

Explanation

M112FM75 75mm, F/3.5

- Model Number, focal length ←
- Sensor type, area ←
- Object distance from the tip of the mechanical end at infinity focus ←
- Size of the extension ring in mm ←
- Object distance from the tip of the mechanical end at MOD ←
- Data at infinity focusing position ←
- Data at the minimum focusing position ←

Size of Extension Ring	Imager 1/1.2" 10.72mm x 8.04mm			Imager 2/3" 8.8mm x 6.6mm		
	WD	Coverage		WD	Coverage	
W/0	1000.0	139.1 ×	104.4	1000.0	114.2 ×	85.7
	700.0	48.2 ×	36.2	700.0	79.2 ×	59.4
0.5	12807.3	1816.6 ×	1364.7	12807.3	1493.1 ×	1121.0
	661.7	90.9 ×	68.2	661.7	74.7 ×	56.0
1	6007.9	850.6 ×	638.9	6007.9	699.0 ×	524.8
	627.2	86.0 ×	64.5	627.2	70.6 ×	53.0
1.5	3840.2	543.0 ×	407.8	3840.2	446.2 ×	335.0
	595.5	81.5 ×	61.2	595.5	67.0 ×	50.2
5	1151.2	160.6 ×	120.6	1151.2	131.9 ×	99.0
	445.3	60.1 ×	45.1	445.3	49.4 ×	37.0
10	585.8	80.2 ×	60.1	585.8	65.8 ×	49.4
	330.5	43.8 ×	32.8	330.5	35.9 ×	26.9
15	398.4	53.5 ×	40.1	398.4	43.9 ×	32.9
	264.9	34.4 ×	25.8	264.9	28.2 ×	21.2
20	304.9	40.1 ×	30.1	304.9	32.9 ×	24.7
	222.5	28.3 ×	21.2	222.5	23.3 ×	17.4
25	248.9	32.1 ×	24.1	248.9	26.4 ×	19.8
	192.8	24.1 ×	18.1	192.8	19.8 ×	14.8
30	211.5	26.8 ×	20.1	211.5	22.0 ×	16.5
	170.9	21.0 ×	15.7	170.9	17.2 ×	12.9
35	184.8	22.9 ×	17.2	184.8	18.8 ×	14.1
	154.0	18.5 ×	13.9	154.0	15.2 ×	11.4
40	164.8	20.1 ×	15.1	164.8	16.5 ×	12.4
	140.6	16.6 ×	12.5	140.6	13.6 ×	10.2

In this case, at object distance of 49.8mm the field coverage will be approximately 55.4mm(H) x 40.8mm(V) at MOD. The data is calculated figure, not based on real measurements.

1. Please use the data shown here for your reference only, it is not the actual figure.
2. TAMRON will not be responsible for any trouble caused using the this figure.
3. The data is calculated figure, not based on real measurements.
4. Please be noted that tolerance are not counted in with this calculation.
5. There might be small difference between each piece.
6. There may be some loss in image quality by applying the extension ring.
7. TAMRON will not guarantee the original image performance when use with an extension ring.
8. This data is based on all source available as of June 26, 2017
9. Subjects may change with out notice.
10. All units are in mm.



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