

RD605GMF Lens Specification

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Nano Advanced Optical Technology

<http://www.naotech.co.kr>

1) RD605GMF SPEC.

No.	Item.		Specification				
1	Focal Length		6.00mm ±5%				
2	Back Focal Length		6.21mm ±5%				
3	Flange Back Length		4.79mm				
4	Lens Construction		1GM + 4G				
5	F#		1.69				
6	Max image circle		7.2mm				
7	Image sensor		ISX016_ (1280X960) 1/4" (D=4.480mm)	AR0140_ (1280X800) 1/4" (D=4.528mm)	ISX017_ (1280X960) 1/3.2" (D=5.600mm)	IMX224_ (1280X960) 1/3" (D=6.000mm)	
	Angle of View	Diagonal	42.4°	42.9°	52.8°	56.5°	
		Horizontal	34.0°	36.4°	42.4°	45.4°	
		Vertical	25.6°	22.8°	31.9°	34.1°	
8	Optical / TV Distortion		-3.8% / -1.3% ±5%	-3.9% / -1.3% ±5%	-6.1% / -2.0% ±5%	-7.1% / -2.4% ±5%	
9	Relative Illumination		77.6%	77.0%	67.9%	64.1%	
10	C.R.A		8.4°	8.5°	10.3°	11.0°	
11	MTF (80lp/mm)	AXIS		69.1 %	69.1 %	69.2 %	69.3 %
		0.6F	Sag.	66.9 %	66.9 %	62.8 %	60.6 %
			Tan.	56.7 %	56.7 %	53.2 %	52.7 %
		0.8F	Sag.	61.1 %	60.8 %	51.4 %	48.3 %
			Tan.	52.5 %	52.4 %	51.2 %	51.0 %

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4	Lens Construction		1GM + 4G				
5	F#		1.69				
6	Max image circle		7.2mm				
7	Image sensor		IMX322_ (1920X1080) 1/2.8" (D=6.168mm)	IMX291_ (1920X1080) 1/2.8" (D=6.388mm)	AR0230_ (1920X1080) 1/2.7" (D=6.609mm)	OV10640_ (1280X1080) 1/2.6" (D=7.034mm)	
	Angle of View	Diagonal	58.1°	60.1°	62.2°	66.1°	
		Horizontal	50.8°	52.5°	54.3°	50.8°	
		Vertical	28.7°	29.7°	30.8°	42.9°	
8	Optical / TV Distortion		-7.5% / -2.5% ±5%	-8.1% / -2.7% ±5%	-8.7% / -2.9% ±5%	-10.0% / -3.3% ±5%	
9	Relative Illumination		62.4%	60.4%	58.5%	54.4%	
10	C.R.A		11.2°	11.6°	11.9°	12.5°	
11	MTF (80p/mm)	AXIS		69.3 %	69.4 %	69.5 %	69.7 %
		0.6F	Sag.	59.7 %	57.9 %	56.2 %	52.6 %
			Tan.	52.5 %	52.4 %	52.2 %	52.4 %
		0.8F	Sag.	47.2 %	45.8 %	44.5 %	42.0 %
			Tan.	51.0 %	50.7 %	50.6 %	50.4 %

2) RD605GMF Drawing

