

# NL2456S Lens Specification

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Nano Advanced Optical Technology

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

# 1) NL2456S SPEC.

No.	Item.		Specification				
1	Focal Length		2.43mm $\pm$ 5%				
2	Back Focal Length		4.99mm $\pm$ 5%				
3	Flange Back Length		4.76mm				
4	Lens Construction		6 GLASS				
5	F#		2.4				
6	Max image circle		6.2mm				
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	110.7°	112.0°	144.3°	158.5°	
		Horizontal	<b>86.8°</b>	<b>93.4°</b>	<b>110.7°</b>	<b>119.7°</b>	
		Vertical	64.3°	57.2°	81.1°	87.2°	
8	Optical / TV Distortion		-36.4% / -12.2% $\pm$ 5%	-37.3% / -12.5% $\pm$ 5%	-63.0% / -21.8% $\pm$ 5%	-76.6% / -27.2% $\pm$ 5%	
9	Relative Illumination		88.8%	88.5%	80.5%	68.3%	
10	C.R.A		11.1°	11.2°	13.6°	14.5°	
11	MTF (80lp/mm)	AXIS		42.1 %	42.1 %	42.1 %	42.1 %
		0.6F	Sag.	48.8 %	48.8 %	50.1 %	50.7 %
			Tan.	56.3 %	56.3 %	56.3 %	55.7 %
		0.8F	Sag.	50.7 %	50.6 %	50.8 %	49.8 %
			Tan.	55.8 %	55.5 %	50.1 %	47.1 %

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No.	Item.		Specification			
1	Focal Length		2.43mm $\pm$ 5%			
2	Back Focal Length		4.99mm $\pm$ 5%			
3	Flange Back Length		4.76mm			
4	Lens Construction		6 GLASS			
5	F#		2.4			
6	Max image circle		6.2mm			
7	Image sensor		MT9V024_ (752X480) 1/3" (D=5.353mm)			
	Angle of View	Diagonal	136.3°			
		Horizontal	111.6°			
Vertical		69.1°				
8	Optical / TV Distortion		-55.9% / -19.2% $\pm$ 5%			
9	Relative Illumination		82.7%			
10	C.R.A		13.1°			
11	MTF (80lp/mm)	AXIS		42.1 %		
		0.6F	Sag.	49.9 %		
			Tan.	56.5 %		
		0.8F	Sag.	51.2 %		
Tan.	51.8 %					

## 2) NL2456S Drawing

