



Lens resolution chart



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1MP Lenses 1/1.2"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-1.3MP-12MM-F1.8-020-SWIR	MTF > 0.52 @100lp/mm	MTF ~0.3 @100lp/mm	3.45µm
VA-LCM-1.3MP-16MM-F1.8-020-SWIR	MTF > 0.59 @100lp/mm	MTF > 0.49 @100lp/mm	3.45µm
VA-LCM-1.3MP-25MM-F1.8-020-SWIR	MTF > 0.59 @100lp/mm	MTF > 0.49 @100lp/mm	3.45µm
VA-LCM-1.3MP-35MM-F1.8-020-SWIR	MTF > 0.4 @160lp/mm	MTF > 0.39 @160lp/mm	3.45µm

2MP Lenses 2/3"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-2MP-08MM-F1.4-015-SWIR	MTF > 0.39 @60lp/mm	MTF ~0.3 @47lp/mm	3.45µm
VA-LCM-2MP-12MM-F1.4-015-SWIR	MTF > 0.33 @40lp/mm	MTF > 0.31 @40lp/mm	3.45µm
VA-LCM-2MP-16MM-F1.4-015-SWIR	MTF > 0.33 @40lp/mm	MTF > 0.31 @40lp/mm	3.45µm
VA-LCM-2MP-25MM-F1.4-015-SWIR	MTF > 0.31 @60lp/mm	MTF > 0.33 @60lp/mm	3.45µm
VA-LCM-2MP-50MM-F2.0-015-SWIR	MTF ~0.3 @30lp/mm	MTF ~0.3 @27lp/mm	3.45µm

5MP Lenses 1/1.8"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-5MP-06MM-F2.0-018	MTF > 0.5 @150lp/mm	MTF ~0.3 @112lp/mm	3.45µm
VA-LCM-5MP-08MM-F2.0-018	MTF > 0.42 @150lp/mm	MTF ~0.3 @125lp/mm	3.45µm
VA-LCM-5MP-12MM-F2.0-018	MTF > 0.55 @150lp/mm	MTF ~0.3 @120lp/mm	3.45µm
VA-LCM-5MP-16MM-F2.0-018	MTF > 0.4 @150lp/mm	MTF ~0.3 @128lp/mm	3.45µm
VA-LCM-5MP-25MM-F2.0-018	MTF > 0.44 @150lp/mm	MTF ~0.3 @145lp/mm	3.45µm
VA-LCM-5MP-35MM-F2.0-018	MTF > 0.35 @150lp/mm	MTF ~0.3 @117lp/mm	3.45µm
VA-LCM-5MP-50MM-F2.8-018	MTF > 0.38 @150lp/mm	MTF ~0.3 @123lp/mm	3.45µm
VA-LCM-5MP-75MM-F2.8-018	MTF > 0.42 @150lp/mm	MTF ~0.3 @125lp/mm	3.45µm

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5MP Lenses 2/3"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-5MP-08MM-F1.4-015	MTF > 0.45 @125lp/mm	MTF > 0.3 @125lp/mm	3.45µm
VA-LCM-5MP-09MM-F1.8-015	MTF > 0.36 @120lp/mm	MTF ~0.3 @112lp/mm	4,2µm
VA-LCM-5MP-8MM-F1.4-015-AF	MTF > 0.45 @125lp/mm	MTF > 0.3 @125lp/mm	3.45µm
VA-LCM-5MP-12MM-F1.4-015	MTF > 0.55 @125lp/mm	MTF ~0.3 @112lp/mm	3.45µm
VA-LCM-5MP-16MM-F1.4-015	MTF > 0.48 @125lp/mm	MTF ~0.3 @123lp/mm	3.45µm
VA-LCM-5MP-25MM-F1.4-015	MTF > 0.48 @125lp/mm	MTF ~0.3 @115lp/mm	3.45µm
VA-LCM-5MP-35MM-F1.4-015	MTF > 0.38 @125lp/mm	MTF ~0.3 @125lp/mm	3.45µm
VA-LCM-5MP-50MM-F1.4-015	MTF > 0.38 @125lp/mm	MTF > 0.31 @125lp/mm	3.45µm
VA-LCM-5MP-75MM-F2.0-015	MTF > 0.49 @150lp/mm	MTF > 0.49 @150lp/mm	3,3µm
VA-LCM-5MP-150MM-F4.0-015	MTF > 0.49 @150lp/mm	MTF > 0.49 @150lp/mm	3,3µm

5MP Lenses 1/2"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LM12-5MP-03MM-F2.8-020	MTF > 0.78 @100lp/mm	MTF > 0.42 @100lp/mm	3.5µm

5MP Lenses 1/1.8"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LM12-5MP-06MM-F2.8-018	MTF > 0.35 @250lp/mm	MTF ~0.3 @137.5lp/mm	3.45µm
VA-LM12-5MP-08MM-F2.8-018	MTF > 0.33 @250lp/mm	MTF ~0.3 @112.5lp/mm	3.45µm
VA-LM12-5MP-12MM-F2.8-018	MTF ~0.3 @237.5lp/mm	MTF ~0.3 @162.5lp/mm	3.45µm

5MP Lenses 1"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-5MP-25MM-F1.8-100-SWIR	MTF > 0.49 @120lp/mm	MTF ~0.3 @102lp/mm	3.45µm
VA-LCM-5MP-35MM-F1.4-100-SWIR	MTF > 0.63 @50lp/mm	MTF > 0.55 @50lp/mm	3.45µm
VA-LCM-5MP-50MM-F1.4-100-SWIR	MTF > 0.69 @50lp/mm	MTF > 0.68 @50lp/mm	3.45µm

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UV Lenses	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-8MP-25MM-F2.0-015-UV	MTF > 0.39 @180lp/mm	MTF ~0.3 @145lp/mm	2,74µm

10MP Lenses 2/3"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-10MP-05MM-F1.8-015	MTF > 0.6 @150lp/mm	MTF > 0.35 @150lp/mm	2,4µm
VA-LM12-10MP-12MM-F2.5-015	MTF ~0.3 @142lp/mm	MTF ~0.3 @134lp/mm	2,4µm
VA-LCM-10MP-16MM-F2.8-015	MTF > 0.38 @200lp/mm	MTF ~0.3 @168lp/mm	2,4µm
VA-LM12-10MP-25MM-F2.5-015	MTF > 0.45 @200lp/mm	MTF > 0.36 @200lp/mm	2,4µm
VA-LCM-10MP-25MM-F2.8-015	MTF > 0.5 @160lp/mm	MTF > 0.3 @160lp/mm	2,4µm
VA-LM12-10MP-35MM-F2.8-015	MTF > 0.52 @150lp/mm	MTF > 0.36 @150lp/mm	2,4µm
VA-LCM-10MP-35MM-F2.8-015	MTF > 0.52 @160lp/mm	MTF > 0.33 @160lp/mm	2,4µm
VA-LCM-10MP-50MM-F2.8-015	MTF > 0.52 @100lp/mm	MTF > 0.38 @100lp/mm	2,4µm
VA-LM12-10MP-50MM-F4.0-015	MTF > 0.35 @200lp/mm	MTF ~0.3 @145lp/mm	2,4µm

10MP Lenses 1.1"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-10MP-06MM-F1.8-110	MTF > 0.41 @125lp/mm	MTF ~0.3 @100lp/mm	3.45µm
VA-LCM-10MP-08MM-F1.4-110	MTF > 0.42 @125lp/mm	MTF ~0.3 @100lp/mm	3.45µm

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10MP Lenses 1/2.3"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LM12-10MP-4.5MM-F4.5-023	MTF > 0.52 @125lp/mm	MTF > 0.38 @125lp/mm	1.55 μm

12MP Lenses 1.1"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-12MP-06MM-F2.5-110	MTF > 0.52 @150lp/mm	MTF ~0.3 @137lp/mm	3,45μm
VA-LCM-12MP-100MM-F2.6-110	MTF > 0.39 @150lp/mm	MTF ~0.3 @118lp/mm	3,45μm

12MP Lenses 1.1" Macro	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-12MP-35MM-F2.8-110-MACRO	MTF > 0.31 @145lp/mm	MTF ~0.3 @105lp/mm	3.45μm
VA-LCM-12MP-50MM-F2.8-110-MACRO	MTF > 0.41 @145lp/mm	MTF ~0.3 @110lp/mm	3.45μm
VA-LCM-12MP-75MM-F3.8-110-MACRO	MTF > 0.51 @100lp/mm	MTF > 0.44 @100lp/mm	3.45μm

16MP Lenses 1/2.3"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LM12-16MP-03MM-F2.5-023	MTF > 0.51 @250lp/mm	MTF ~0.3 @160lp/mm	4.2μm

20MP Lenses 1.1"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-20MP-12MM-F2.8-110	MTF > 0.38 @160lp/mm	MTF ~0.3 @128 lp/mm	2,75μm
VA-LCM-20MP-16MM-F2.8-110	MTF ~0.3 @146 lp/mm	MTF ~0.3 @110 lp/mm	2,75μm
VA-LCM-20MP-25MM-F2.8-110	MTF > 0.45 @160lp/mm	MTF ~0.3 @132 lp/mm	2,75μm
VA-LCM-20MP-35MM-F2.8-110	MTF > 0.35 @160lp/mm	MTF ~0.3 @110 lp/mm	2,75μm
VA-LCM-20MP-50MM-F2.8-110	MTF > 0.36 @160lp/mm	MTF ~0.3 @125 lp/mm	2,75μm

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20MP Lenses 4/3"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-20MP-16MM-F2.8-133	MTF > 0.39 @125lp/mm	MTF ~0.3 @86lp/mm	2,5µm
VA-LCM-20MP-25MM-F2.8-133	MTF ~0.3 @148lp/mm	MTF ~0.3 @111lp/mm	2,5µm

25MP Lenses 1.1"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-25MP-08MM-F2.8-110	MTF > 0.38 @200lp/mm	MTF ~0.3 @158lp/mm	2,5µm
VA-LCM-25MP-12MM-F2.8-110	MTF > 0.6 @100lp/mm	MTF > 0.4 @100lp/mm	2,5µm
VA-LCM-25MP-16MM-F2.8-110	MTF ~0.3 @165lp/mm	MTF ~0.3 @148lp/mm	2,5µm
VA-LCM-25MP-25MM-F2.8-110	MTF > 0.5 @100lp/mm	MTF > 0.38 @100lp/mm	2,5µm
VA-LCM-25MP-35MM-F2.8-110	MTF ~0.3 @165lp/mm	MTF ~0.3 @146lp/mm	2,5µm
VA-LCM-25MP-50MM-F2.8-110	MTF > 0.45 @100lp/mm	MTF > 0.35 @100lp/mm	2,5µm

25MP Lenses 1.2"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-25MP-12MM-F2.4-120	MTF > 0.44 @200lp/mm	MTF ~0.3 @190lp/mm	2.74µm
VA-LCM-25MP-16MM-F2.4-120	MTF > 0.47 @200lp/mm	MTF ~0.3 @110lp/mm	2.74µm
VA-LCM-25MP-25MM-F2.4-120	MTF ~0.3 @240lp/mm	MTF ~0.3 @178lp/mm	2.74µm
VA-LCM-25MP-35MM-F2.4-120	MTF > 0.34 @240lp/mm	MTF ~0.3 @195lp/mm	2.74µm
VA-LCM-25MP-50MM-F2.4-120	MTF > 0.35 @240lp/mm	MTF ~0.3 @240lp/mm	2.74µm

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29MP Lenses	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LM42-29MP-20MM-F4.5-30C	MTF > 0.41 @100lp/mm	MTF > 0.35 @100lp/mm	7µm
VA-LM42-29MP-25MM-F2.8-30C	MTF ~0.3 @77lp/mm	MTF ~0.3 @65lp/mm	7µm
VA-LM42-29MP-28MM-F4-30C	MTF > 0.52 @100lp/mm	MTF ~0.3 @84lp/mm	7µm
VA-LM42-29MP-28MM-F2.8-30C	MTF > 0.76 @100lp/mm	MTF > 0.54 @100lp/mm	7µm
VA-LFM-29MP-40MM-F2.8-43C	MTF ~0.3 @97lp/mm	MTF ~0.3 @30lp/mm	7µm
VA-LFM-29MP-50MM-F2.8-43C	MTF > 0.43 @100lp/mm	MTF > 0.38 @100lp/mm	7µm
VA-LFM-29MP-60MM-F4-64C	MTF > 0.55 @40lp/mm	MTF > 0.33 @40lp/mm	7µm
VA-LFM-29MP-80MM-F5.6-58C	MTF > 0.35 @100lp/mm	MTF ~0.3 @72lp/mm	7µm

45MP Lenses 1.4"	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LCM-45MP-25MM-F2.8-140	MTF > 0.48 @216lp/mm	MTF ~0.3 @176lp/mm	2µm
VA-LCM-45MP-16MM-F2.8-140	MTF > 0.48 @216lp/mm	MTF ~0.3 @172.8lp/mm	2µm

65MP Lenses	Specification [lp/mm]		pixel size
	Center	Corner	
VA-LFM-65MP-25MM-F4-42C	MTF > 0.49 @100lp/mm	MTF > 0.4 @100lp/mm	3.2µm
VA-LFM-65MP-80MM-F3.6-42C	MTF > 0.42 @100lp/mm	MTF > 0.42 @100lp/mm	3.2µm

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