1/2.5-Inch 5Mp CMOS Digital Image Sensor

MT9P001 Data Sheet Addendum

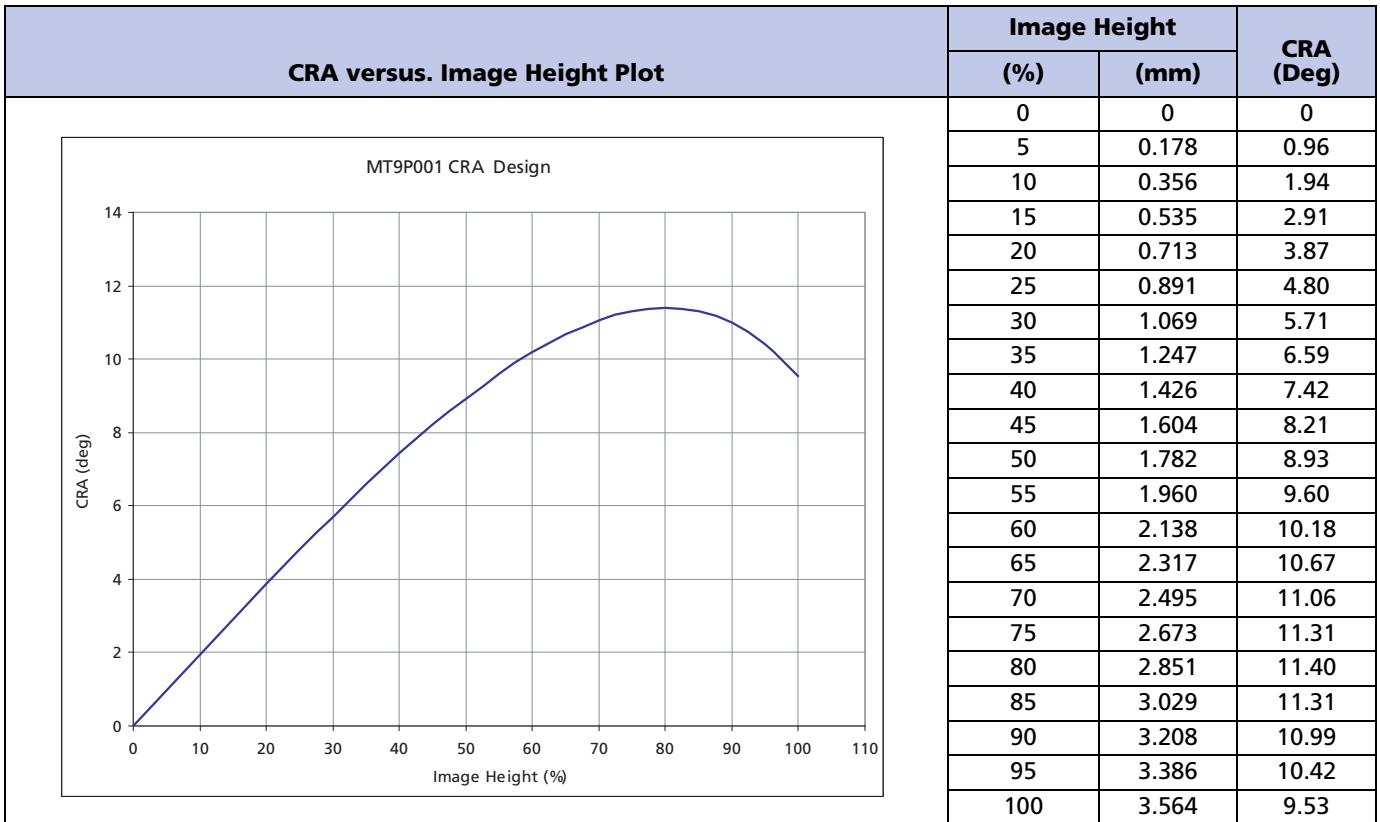Refer to the latest data sheet on Micron's Web site: www.micron.com/imaging

Introduction

This document supplements Micron's MT9P001 CMOS digital image sensor data sheet (Rev. F, production, 11/06) with the CRA (chief ray angle) curve specification. The standard CMOS image sensor data sheet should be referenced for a complete description of this 1/2.5-inch 5Mp CMOS digital image sensor. The specifications contained in this addendum supersede the specifications listed in the referenced CMOS digital image sensor data sheet.

CRA Specification

The sensor micro lens is shifted to accommodate different incident angles of incoming light based on the position within the image array as shown in Figure 1.

Figure 1:   CRA versus Image Height

CRA versus. Image Height Plot	Image Height		CRA (Deg)
	(%)	**(mm)**	
	0	0	0
	5	0.178	0.96
	10	0.356	1.94
	15	0.535	2.91
	20	0.713	3.87
	25	0.891	4.80
	30	1.069	5.71
	35	1.247	6.59
	40	1.426	7.42
	45	1.604	8.21
	50	1.782	8.93
	55	1.960	9.60
	60	2.138	10.18
	65	2.317	10.67
	70	2.495	11.06
	75	2.673	11.31
	80	2.851	11.40
	85	3.029	11.31
	90	3.208	10.99
	95	3.386	10.42
	100	3.564	9.53

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Revision History

Rev. A 06/11/2007

- Initial release

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This data sheet contains minimum and maximum limits specified over the complete power supply and temperature range
for production devices. Although considered final, these specifications are subject to change, as further product
development and data characterization sometimes occur.