Allied Vision

Product/Process Change Notification / PCN

Affected Product Prosilica GT3300C, Prosilica GX3300C

PCN Title Discontinuation of Prosilica GT/GX3300C cameras with KAI-08050 color sensor

PCN No. PCRREVB-350 **PCN Issue date** 2015-Dec-10

Contact pcn@alliedvision.com

Type of change

- ☐ Regulatory / Compliance
- ☐ Mechanical Specification
- ☐ Electrical Specification
- ☐ Optical Specification
- ☐ Firmware Specification
- ☐ Accessories Specification
- ☒ DISC (Discontinued)
- ☐

Affected item(s) / item number(s)

All GT3300C and GX3300C models and variants with On Semiconductors KAI 08050 color version.

Following item numbers of the Prosilica GT series are affected by this discontinuation:

Camera Series	Item ID	Item Description
Prosilica GT	02-2623A	Camera Prosilica GT3300C Color
	02-2623A-07	Camera Prosilica GT3300C color C-Mount
	02-2623A-09	Camera Prosilica GT3300C color Birger-EF-Mount
	02-2623A-16	Camera Prosilica GT3300C color no filter

Following item numbers of the Prosilica GX series are affected by this discontinuation:

Camera Series	Item ID	Item Description
Prosilica GX	02-2409B	Camera Prosilica GX3300C color
	02-2409B-07	Camera Prosilica GX3300C Color C-mount
	02-2409B-09	Camera Prosilica GX3300C Color Birger-EF-mount
	02-2409B-16	Camera Prosilica GX3300C Color no filter

Reason for change

Allied Vision was informed by ON Semiconductors about a product discontinuation of the sensor KAI-08050 color (all variants).
Reason is the development of a successor model of type KAI-08051 with improved micro lens design and a change in the color filter array (CFA) material.
As a consequence Allied Vision will have to discontinue all camera models / variants based on KAI-08050 colors sensor.

Change description

The above mentioned item numbers change over to the status “End of Life” (EOL). Please see the schedule below.

End of life schedule

Affected product: See table above

	Start	End
Last time buy period	December 10, 2015	January 11, 2016
Last time shipment period	January 12, 2016	July 11, 2016
Last warranty period	July 12, 2016	July 11, 2019

Customer action request

Please get in touch with your corresponding sales representative to clarify if a transition to a potential successor model (see table below) would work for you. In case this should not be possible, please place your orders until the given last time buy date (11th of January 2016).

Orders for cameras in EOL status are confirmed and processed, depending on component availability. Apart from this, apply our terms and conditions.

Possible successor

		NEW		*Discontinued*		Alternative Camera Models	
Camera Model		**Prosilica GT3300C New**	**Prosilica GX3300C New**	***Prosilica GT3300C***	***Prosilica GX3300C***	**Manta G-917**	**Prosilica GT3400**
Interface		GigE Vision	GigE Vision	*GigE Vision*	*GigE Vision*	GigE Vision	GigE Vision
Sensor Manufacturer		OnSemi	OnSemi	*OnSemi*	*OnSemi*	Sony	Sony
Sensor Model		KAI-08051	KAI-08051	*KAI-08050*	*KAI-08050*	IMX174	ICX814
Resolution		3296 x 2472	3296 x 2472	3296 x 2472	3296 x 2472	3384 x 2710	3384 x 2704
Pixel Size	[µm]	5.5	5.5	*5.5*	*5.5*	3.69	3.69
Frame Rate	[fps]	14.7	17	*14.7*	*17*	10	12.7
Sensor Size		4/3"	4/3"	*4/3"*	*4/3"*	1"	1"
Dynamic Range	[dB]	64	63	*62*	*61*	60	63
Saturation Capacity	[e-]	19.900	20.200	*19.900*	*19.500*	10.100	12.000
Temporal Dark Noise	[e-]	12	12	*16*	*18*	10	8

The alternative GT/GX camera models with KAI-08051 sensor instead of KAI-08050 sensor will have the following item IDs:

Camera Series	Item ID	New Item ID	Item Description
Prosilica GT	02-2623A	02-2623**B**	Camera Prosilica GT3300C Color
	02-2623A-07	02-2623**B**-07	Camera Prosilica GT3300C color C-Mount
	02-2623A-09	02-2623**B**-09	Camera Prosilica GT3300C color Birger-EF-Mount
	02-2623A-16	02-2623**B**-16	Camera Prosilica GT3300C color no filter
Prosilica GX	02-2409B	02-2409**D**	Camera Prosilica GX3300C color
	02-2409B-07	02-2409**D**-07	Camera Prosilica GX3300C Color C-mount
	02-2409B-09	02-2409**D**-09	Camera Prosilica GX3300C Color Birger-EF-mount
	02-2409B-16	02-2409**D**-16	Camera Prosilica GX3300C Color no filter

Successor camera sensor: KAI-08051 COLOR

The KAI-08051 sensor offers an improved micro-lens structure over the KAI-08050 giving a boost in quantum efficiency, as well as a reduction in noise due to a modified output amplifier. There is a slight drop in saturation capacity; however, the increased QE results in a lower minimum detectable irradiation and the sensor dynamic range is improved (dynamic range = saturation capacity / minimum detectable irradiation). Overall, KAI-08051 is a better performing sensor.

In addition, OnSemi has changed the materials used in their Color Filter Array for color KAI-08051 sensors. As shown in Figure 8 (Provided by OnSemi), and validated through final image comparison, the change in color balance is undetectable between KAI-08050 and KAI-08051. Please refer to the “FXA” variants when comparing the sheet.

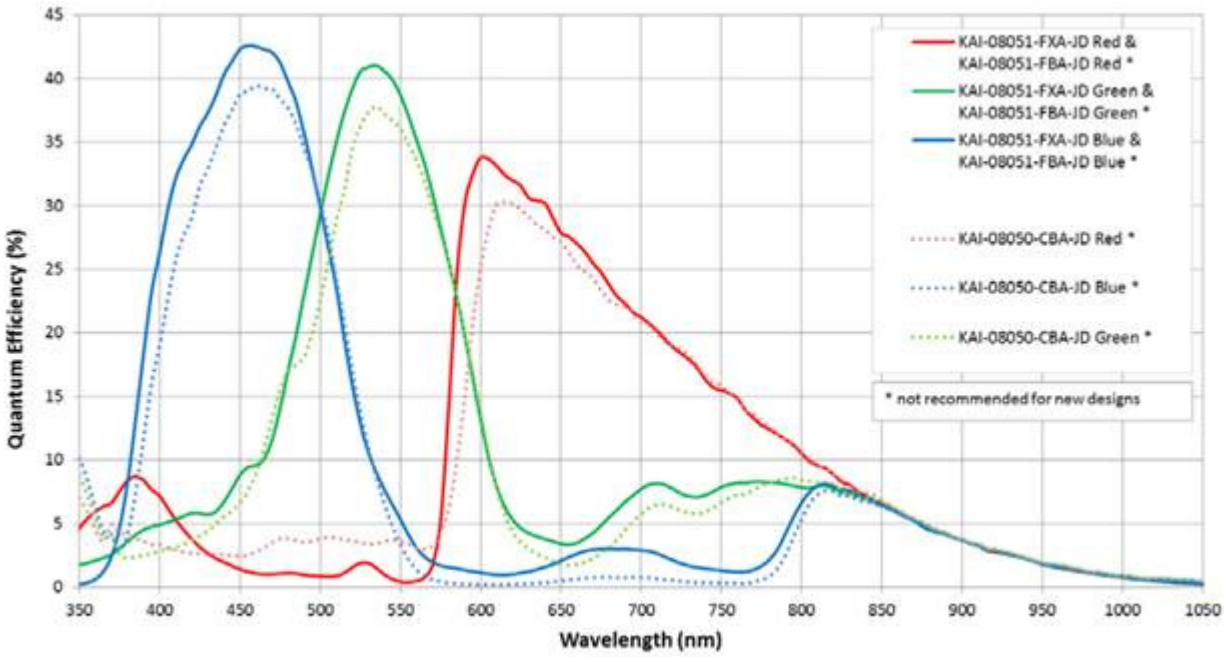

Figure 8. Quantum Efficiency: Color Bayer with Microlens and AR Glass Configuration. KAI–08051 compared to KAI–08050.

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