



## Compact CMOS USB camera module – customization welcome

Jenoptik offers a compact CMOS USB camera module with basic configurations. Any project-related modification based on these preconfigured camera modules can be made according to your demands. All the attributes of the imaging modules are customizable for specific projects and allow to cover the requirements of any application, any kind of product development projects, any device production or system integration.

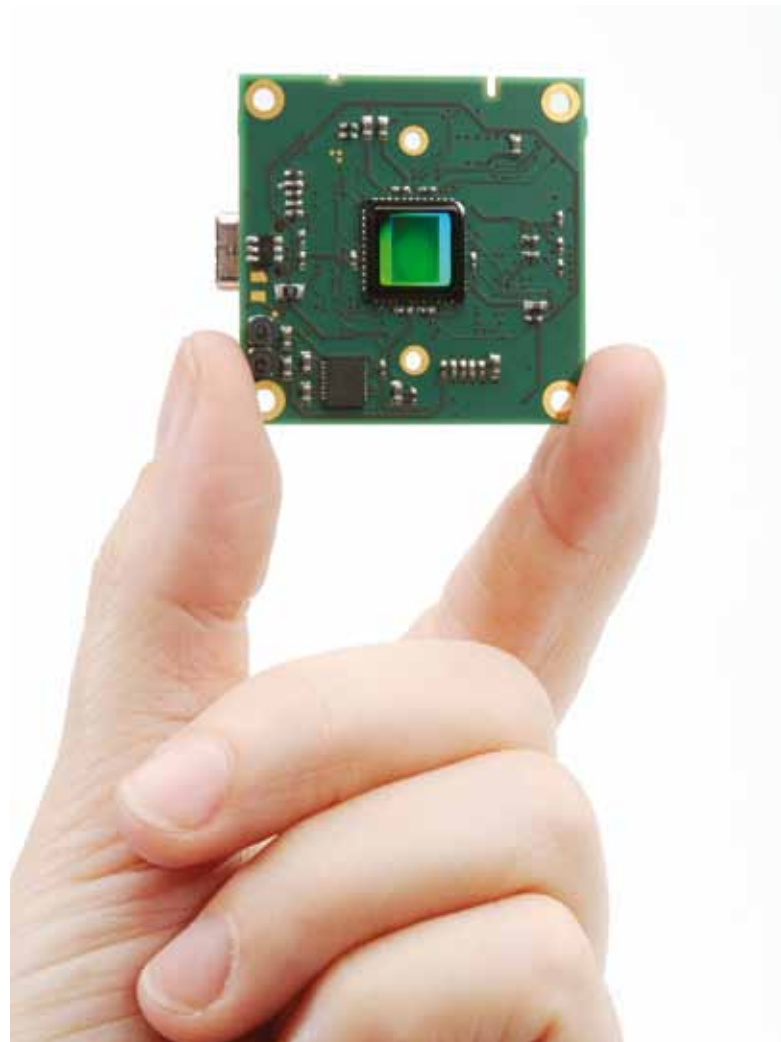
Customizable attributes can relate to

- form factor
- resolution (1 MP, 3 MP, 5 MP, 10 MP, 14 MP, ...)
- sensor type (CCD / CMOS)
- digital interface (USB 2.0, USB 3.0)
- optical interface (c-mount, s-mount, cs-mount)
- adapted optics & filters, etc.

With our hard- and software development expertise we can fulfil special custom requirements and find best-in-class imaging solutions.

Our competencies comprise high-performance imaging, integration of polymer based optics and illumination as well as interfacing.

Make „Jenoptik Inside“ working for you – offer your customers a valuable benefit while integrating Jenoptik imaging into your products.



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## Basic configuration

Imaging Module		SDK included with basic functions (extendable)	
Image sensor	1/2.5" CMOS color	camera Set Parameter	
Sensor type:	Aptina	Image mode	resolution skipping binning trigger
Active pixels [H x V]	2592 x 1944 pixel	Acquisition parameter	gain exposure time
Digitization	12 bit	Color interpolation	white balance matrix interpolation low light mode
Color / Monochrome	Color / Monochrome	Output format	24bit RGB / 10 bit compressed-RAW / 8 bit RAW
Sensor resolution [max]	2592 x 1944 [5 Mpix]	Sensor resolution [max]	2592 x 1944 [5 Mpix]
Pixel size	2.2 x 2.2 µm	start Live	starts live image
Dynamic range	66 dB	get Image	fetches the last captured image
Max. frame rate [image size]	6 fps [2592 x 1944 pixel]		
Digital interface	USB 2.0		
Optical connection	with or without c-mount/ s-mount		
Trigger In / Out	software		
Software requirements	Windows XP/ Windows 7		
Power consumption	2,5 Watt (via USB 2.0)		
Dimensions	35 x 35 mm		
Housing	optional deliverable in a robust metal housing		

## Benefits

- Compact single-board construction
- Most widespread digital interface USB 2.0
- High resolution of 5 megapixel
- High frame rates
- Cost-effective (high-volume) solutions
- Including software development kit

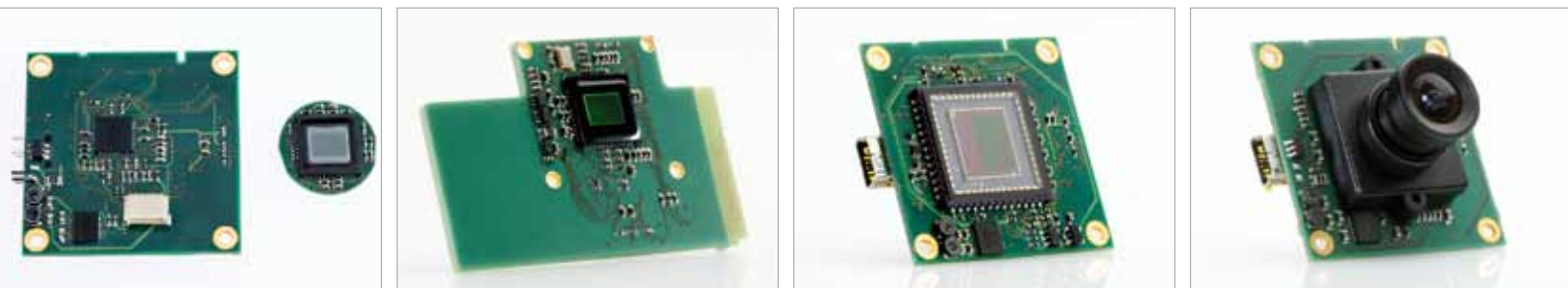
## Customer value

- Miniaturization & light-weight
- Easy plug & play
- Sharp high-quality images
- Fast live image & quick focussing
- Saving of costs
- Easy to integrate

## Application fields

- Health care & life science
- Industrial inspection & machine vision
- Automotive
- Digital Imaging

## Customization examples



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.



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