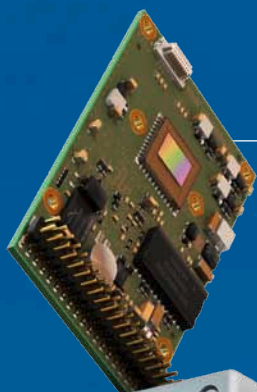


Performance³

The new VC Z series with **LINUX**® OS.

Based on a dual-core processor ARM® Cortex®-A9 with 866 MHz and an integrated FPGA the models of the new VC Z series offer solutions at extreme high-speed in real-time. The operating system VC Linux provides for the ideal interaction of hard- and software.

All cameras are equipped with a battery backed real-time-clock and come with up to 12 inputs and outputs, with trigger input and flash trigger output, as well as an Ethernet interface. 5 different CMOS sensors with global shutter and a resolution up to 4.2 Megapixel are available with all models.



VC SBC nano Z series

- Interfaces: Gbit Ethernet, serial interface, 1 x I²C, 12 programmable I/Os, 1 trigger input (opto isolated), 1 flash trigger output
- Dimensions: 40 x 65 mm
- Also available with 1 and 2 remote image sensor boards

VC nano Z series

- Interfaces: 100 Mbit Ethernet, I/Os: 2 inputs, 4 outputs, 1 trigger input, 1 flash trigger output. Pin connections and cables are compatible with VC nano models.
- Dimensions: 80 x 45 x 20 mm

VC pro Z series

- Interfaces: Gbit Ethernet, Encoder, 2 x external lighting, 4 inputs, 4 outputs, 1 trigger input, 1 flash trigger output, serial interface
- Dimensions: 90 x 58 x 36 mm
- Protective housing class IP67, M12 connectors
- Optional: lens, integrated lighting, autofocus module

Delivery starting from Q1/2015

LINUX
inside

FPGA
power



WWW.VC-LINUX.COM

VC VISION
components®

Three in one sweep: VC Lib, VC Power Lib, VC FPGA Packs.

The VC tools meet
all requirements.



VC Linux & VC Lib

(free of charge)

VC Linux, the new operating systems, and **VC Lib**, the extensive library containing the basics for image processing tasks, constitute the core of the new cameras. VC Linux provides for the ideal interaction of hard- and software and VC Lib concentrates 30 years of Know-how in machine vision.

Speed



VC FPGA Packs

(available from Q2/2015)

Each particular FPGA pack processes the requested function in hardware in parallel to image acquisition. With this enormous high-speed analysis is generated.

- **Smart Finder Pack:** Implementation in FPGA allows for enormous high-speed pattern matching tasks.
- **Edge & Filter Pack:** Implementation in FPGA of several functions.
- **VC Solution Pack:** Implementation of customer's FPGA routines.

VC Power Lib

The VC Power Lib accelerates the processing of VC Lib functions by a factor of 3 in average, up to a factor of 10.

Utilization ratio of FPGA in %*

Function	BRAM	DSP48	FF	LUT
Sobel	1,7	0	1,1	4,0
Pyramid	0,8	0	0,4	1,7
Median 3x3	1,7	0	1,1	3,9
Histogramm	1,7	0	0,6	2,0
Canny Edge	6,7	1,3	3,4	15,9
Pattern Matching	43,2	0	10,2	34,5

*In relation to the chip's total size.



Customized Solutions + Projects

Project programming on customer-specific request: Software modification, development of mass production systems incl. FPGA programming, feasibility studies, implementing OEM code, etc.

Ask us, together with you we develop your ideal solution!



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