

## VCSBC4018

World's fastest smart cameras

# The new reference for single board cameras!





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The **VCSBC4018** is an extremely fast intelligent single board camera and one of the fastest intelligent cameras all over with a computational power of 3200 MIPS rivalling a 2.6 GHZ Pentium. It has 16 MB DRAM, 2 MB Flash EPROM for program and data storage and can acquire full frame 640 x 480 pixels at 32 frames per second!

The internal operating system of the VCSBC4018 is **multitasking!** This means that user interface commands can execute in parallel without stopping the inspection process.

And whereas a standard progressive scan camera gets a trigger, starts exposure and then reads out the pixel data, the VCSBC4018 has optimized the image acquisition process so that exposure and readout are in parallel.

The VCSBC4018 offers thus an extremely inexpensive entrance into the world of the high performance intelligent cameras.

It has a video output onto a PC via 100MBit Ethernet interface.

All Vision Components cameras are built for industrial applications. They are insensitive to shock and vibration, and have multiple I/O lines for direct control of external equipment. For more complex control tasks, they can easily be interfaced to a PLC.



#### **Vision Components GmbH**



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### **Specifications:**

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	VCSBC4018
Sensor size:	1/3", 640(H) x 480(V) Pixel
Shutter:	High-speed: up to 1/10,000 sec in steps of 62 μsec
Integration:	Full Frame Progressive Scan
Acquisition:	asynchronous, program-controlled, or triggered externally, full- frame, Acquisition jitter free
Framerate	32fps
A/D conversion:	1 x 12,5 MHz / 10 Bit
Image display::	Via 100MBit Ethernet onto PC
Processor:	3200 MIPS, 400 MHz Texas Instruments TMS320C64xx
Image/data memory:	16 MBytes SDRAM
Flash memory:	2 MBytes flash EPROM (nonvolatile memory) for programs and data, programmable in the system
Interface:	2 inputs / 4 outputs optically decoupled 24V, Outputs 4 x 400mA, TTL I/O 4 In- and 4 outputs, 1 picture trigger input, 1 flash trigger output
Ethernet:	100 MBit TCP/IP
Supply voltage:	12V - 24V +/-20% DC, max. 200 mA
Electrical connections:	I/O (DC IN, PLC, 12-pin), Ethernet (8-pin), TTL I/O (20-pin), LED Lighting plug (4-pin)
Dimensions:	60x80 mm

(No liability is assumed for possible errors)



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