

Smart Cameras made in Germany



VC4016

VCBASE

The **VC4016** is an extremely fast intelligent compact 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 32 MB DRAM, 4 MB Flash EPROM for program and data storage. It can acquire full frame 1024 x 768 pixel, at 16 frames per second!

The own internal operating system "VCRT" of the **VC4016** is multitasking. This means that multiple processes can be executed in parallel.

It has a video output onto a PC via 100 Mbit Ethernet interface and also a High-Speed Trigger input with absolute constant capture delay, which allows absolutely jitterfree image acquisition even at very high-speed processes.

And whereas a standard progressive scan camera gets a trigger, starts exposure and then reads out the pixel data, the **VC4016** has optimized the image acquisition process so that exposure and readout are in parallel.

The **VC4016** offers thus an extremely inexpensive entrance into the world of the high performance intelligent cameras.

All Vision Components Smart 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.

SPECIFICATIONS	VC4016 (Also available as colour version!)
SENSOR	1/3", 1024 (H) x 768 (V) pixels
SHUTTER	high-speed: up to 46.7 μ s in steps of 76.2 μ s low-speed: up to 2 s adjustable integration time
INTEGRATION	full frame progressive scan
FRAME RATE	16 fps
ACQUISITION	asynchronous, program controlled or external trigger, full frame
A/D CONVERSION	1 x 16.7 MHz / 10 bit
PROCESSOR	3200 MIPS, 400 MHz Texas Instruments TMS320C64xx
IMAGE/DATA MEMORY	32 MB SDRAM
FLASH MEMORY	4 MB Flash EPROM (non volatile memory) for programs and data, programmable in the system
DIG. I/O'S	4 inputs / 4 outputs optically decoupled 24 V, outputs 4 x 400 mA
INTERFACES	RS232 up to 115 . 200 baud max. AND 100 Mbit Ethernet
VIDEO OUTPUT	via Ethernet on PC
SUPPLY VOLTAGE	24 V +/-20 % DC, max. 300 mA
ELECTRICAL CONNECTIONS	I/O (DC In, PLC, 12-pin), V 24/trig (6-pin), LAN (6-pin)
DIMENSIONS	approx. 90 x 50 x 35 mm, approx. 250 g

No liability is assumed for possible errors!



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