The **VCSBC4016** 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 32 MB DRAM, 4 MB Flash EPROM for program and data storage and can acquire full frame 1024 x 768 pixels at 16 frames per second!

The own internal operating system ''VCRT'' of the **VCSBC4016** is multitasking. This means that user interface commands can execute in parallel without stopping the inspection process.

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 jitter-free 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 VCSBC4016 has optimized the image acquisition process so that exposure and readout are in parallel.

The **VCSBC4016** 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	VCSBC4016 (Also available as colour version!)
SENSOR	1/3", 1024 (H) x 768 (V) pixels
SHUTTER	**high-speed:** up to 46.7 µs in steps of 76.2 µs **low-speed:** up to 2 s adjustable integration time
INTEGRATION	full frame progressive scan
FRAME RATE	16 fps
ACQUISITION	asynchronous, program controlled, or triggered externally, full frame, acquisition jitterfree
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	2 inputs / 4 outputs optically decoupled 24 V, outputs 4 x 400 mA, TTL I/O 4 in- and 4 outputs, 1 picture trigger input, 1 flash trigger output
INTERFACE	Ethernet 100 Mbit TCP/IP
VIDEO OUTPUT	via 100 Mbit Ethernet onto PC
SUPPLY VOLTAGE	24 V +/-20 % DC, max. 300 mA
ELECTRICAL CONNECTIONS	I/O (DC In, PLC, 12-pin), Ethernet (8-pin), TTL I/O (20-pin), LED Lighting plug (4-pin)
DIMENSIONS	approx. 60 x 80 x 35 mm

No liability is assumed for possible errors!