

**It's no trick...  
it's a vision system**

## VC4018

The VC4018 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 640 x 480 pixel at 32 frames per second!

The own internal operating system "VCRT" of the VC4018 is multitasking. This means that multiple processes can be executed in parallel.

It has a video output onto a PC via 100MBit 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 VC4018 has optimized the image acquisition process so that exposure and readout are in parallel.

The VC4018 offers thus an extremely inexpensive entrance into the world of the high performance intelligent cameras.

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.



<b>Specifications</b>	<b>VC4018</b> <b>(Also available as colour version!)</b>
<b>Sensor:</b>	1/3", 640 (H) x 480 (V) Pixel
<b>Shutter:</b>	High-speed: up to 36,2 µsec in steps of 62.4 µsec Low-speed: up to 2 sec adjustable integration time
<b>Integration:</b>	Full Frame Progressive Scan
<b>Frame rate:</b>	32 fps
<b>Acquisition:</b>	Asynchronous, program controlled or external trigger, full frame
<b>A/D conversion:</b>	1 x 12.5 MHz / 10 Bit
<b>Processor:</b>	3200 MIPS, 400 MHz Texas Instruments TMS320C64xx
<b>Image/Data memory:</b>	32 MBytes SDRAM
<b>Flash memory:</b>	4 MBytes Flash EPROM (non volatile memory) for programs and data, programmable in the system
<b>Dig. I/O's:</b>	4 inputs / 4 outputs optically decoupled 24V, outputs 4 x 500mA
<b>Interfaces:</b>	RS232 up to 115.200 Baud max. <b>and</b> 100Mbit Ethernet
<b>Video output:</b>	Via Ethernet on PC
<b>Supply voltage:</b>	24V +/-20% DC, max. 300 mA
<b>Electrical connections:</b>	I/O (DC IN, PLC, 12-pin), V24/Trig (6-pin), LAN (6-pin),
<b>Dimensions:</b>	Approx. 90 x 50 x 35 mm, approx. 250 g

(No liability is assumed for possible errors!)