

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

VC4038

The VC4038 is one of the world's fastest and most excellent smart cameras with computational power of 3200 MIPS rivalling a 2.6GHZ Pentium. It has 32 MB DRAM, 4 MB Flash EPROM for program and data storage (Expanded by the standard 128MB SD card inside).

It can acquire full frame 640 x 480 pixels at 63 frames per second!

The own internal operating system "VCRT" of the VC4038 is multitasking. This means that multiple processes can be executed in parallel.

The camera has 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 VC4038 has optimized the image acquisition process so that exposure, readout and the image processing can be done in parallel.

It has an 8 bit colour overlay which can operate in opaque or semi-transparent mode so that you can block out or still see the underlying image.

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.



<u>Specifications</u>	VC4038
Sensor:	1/3", 640(H) x 480(V) Pixel
Shutter:	High-speed: up to 5 µsec Low-speed: up to 20 sec adjustable integration time
Integration:	Full Frame Progressive Scan
Frame rate:	63 fps (126 fps with 2 times binning)
Acquisition:	Asynchronous, program controlled or external trigger, full frame
A/D conversion:	1 x 25 MHz / 10 Bit
Processor:	3200 MIPS, 400 MHz Texas Instruments TMS320C64xx
Image display:	B&W or pseudocolor from 3x8 bit RGB lookup table
Image/Data memory:	32 MBytes SDRAM
Flash memory:	4 MBytes Flash EPROM (non volatile memory) for programs and data, programmable in the system
Dig. I/O's:	4 inputs / 4 outputs optically decoupled 24V, outputs 4 x 400mA
Interfaces:	RS232 up to 115.200 Baud max. and 100Mbit Ethernet
Video output:	SVGA 800x600 (VESA standard)
Supply voltage:	24V +/-20% DC, max. 300 mA
Electrical connections:	I/O (DC IN, PLC, 12-pin), V24 (6-pin), Trig (Trigger/keypad, 6-pin), VGA Out (10-pin)
Dimensions:	ca. 120 x 50 x 35 mm, ca. 250 gr.

(No liability is assumed for possible errors!)