

Smart Cameras made in Germany



VC4002L

VCLINE

The **VC4002L** is an extremely fast intelligent Line Scan Camera and one of the fastest Smart Cameras all over with 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. The maximum line frequency is 11 kHz!

The own internal operating system "VCRT" of the **VC4002L** is multitasking. This means that multiple processes can be executed in parallel.

Three different integration modes are supported by this innovative camera:

- In the free-running mode a maximum scan rate of 11 kHz is possible.
- The camera can be triggered externally while having a constant integration time. The maximum scan rate in this mode is 5.5 kHz.
- The third mode allows variable integration time that is determined by the incoming signal of an external trigger. In this mode the maximum scan rate goes up to 11 kHz.

The **VC4002L** offers thus an extremely inexpensive entrance into the world of the high performance intelligent Line Scan 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	VC4002L
SENSOR	CMOS
RESOLUTION	2048
LENS THREAD	C Mount
PIXEL SIZE	7 µm x 7 µm
INTEGRATION TIMES	min: 90.9 µs max: up to 130 ms
MAXIMUM SCAN RATE	11 kHz
INTEGRATION	asynchronous, program controlled or external trigger
A/D CONVERSION	1 x 25 MHz / 10 bit
PROCESSOR	3200 MIPS, 400 MHz Texas Instruments TMS320C64xx
IMAGE7DATA 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 500 mA, 1 image trigger input, 1 flash trigger output
INTERFACES	RS232 up to 115 . 200 baud max. AND 100 Mbit Ethernet TCP/IP
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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