

Smart Cameras made in Germany



VCSBC50

VCBOARD CAM

The **VCSBC50** is likely to be the smallest Smart Camera worldwide and at the same time probably with the most attractive price of all OEM image processing sensors!

It has a B&W VGA (640 x 480) progressive scan CCD sensor, which allows even the inspection of fast moving parts with a high image quality!

The **VCSBC50** can acquire 25 full frames per second. The frame rate can be increased up to 100 fps by using the binning mode (2 times binning or 4 times binning is possible!). You can programmatically change the acquisition on the fly, for example from full frame to binned mode.

The image transfer to a PC is done by JPEG transfer via the serial interface of the camera.

Due to its extremely reduced dimensions and its low weight, the **VCSBC50** can very easily be integrated in an existing machine as well as in the development of a new one and is thus the most cost effective entry into the world of intelligent OEM 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	VCSBC50
SENSOR	1/4", 640 (H) x 480 (V) pixels
SHUTTER	high-speed: up to 24 μ s in steps of 80 μ s low-speed: up to 2 s adjustable integration time
INTEGRATION	full frame progressive scan
FRAME RATE	full frame 25 fps (up to 4 times binning possible!)
ACQUISITION	full frame, 2 times or 4 times binning
A/D CONVERSION	1 x 18.75 MHz / 10 bit
PROCESSOR	375 MIPS, 75 MHz analog devices ADSP2185
IMAGE DISPLAY	by JPEG transfer via RS232 onto PC
IMAGE/ DATA MEMORY	8 MB SDRAM
FLASH MEMORY	2 MB Flash EPROM (non volatile memory) for programs and data, programmable in the system
DIG. I/O'S	2 inputs / 4 outputs @ 24 V, outputs 4 x 400 mA, 12 x 3.3 V TTL outputs
INTERFACE	RS232, 115200 baud max.
SUPPLY VOLTAGE	9 – 36 V DC (nominal 12 – 24 V) 1.5 W
ELECTRICAL CONNECTIONS	Molex™ connectors
WEIGHT	< 20 g
DIMENSIONS	approx. 60 x 60 x 25 mm

No liability is assumed for possible errors!



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