



## VCSBC50

World's smallest intelligent OEM camera

**World's  
smallest OEM  
smart camera!**

**World's  
lowest cost smart  
OEM camera!**



The **VCSBC50** is likely to be the **world's smallest intelligent camera**. And also **lowest cost OEM machine vision sensor**!. It has a B&W VGA (640x480) Progressive Scan CCD sensor, say, even fast moving parts can be inspected and the image quality is superb.

It's designed for the 2D sensor mass market in general .. and so is its price:

1-99 units are available at only 777 EUR. If you order 100 or more systems, the price drops to impressive **300EUR** ("three hundred"! ) ex.vat.

The VCSBC50 can acquire 25 fullframes frames per second, or 50 resp.100 partial frames per second using vertical binning factor 2 resp. 4. You can programmatically change the acquisition on the fly, for example from full frame to binned mode.

The VCSBC50 intelligent vision sensor is ideally suited to the following OEM and sensor applications:

- checking for aligned feeding (on a vibrational bowl feeder for example)
- simple pattern matching based on correlation
- presence /absence checker
- simple 3D inspections based on triangulation
- many other kinds of 2D sensors (Data Matrix Reader library available!)

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.



### Vision Components GmbH

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## Specifications (Errors excepted)

	VCSBC50
Sensor:	1/4" CCD 640x480 pixel
Shutter:	33µsec .. 10 seconds
Integration:	progressive scan full frame shutter
Acquisition:	Fullframe, full resolution, 2x binning or 4x binning, mode change on the fly
A/D conversion:	18.75Mhz
Processor:	375 MIPS, 75 MHz Analog Devices ADSP2185
Image/data memory:	8 Mbyte
Display memory:	none
Flash memory:	2MB flash EPROM (nonvolatile memory) for programs and data, programmable in the system
Process interface:	2 inputs / 4 outputs @ 24V, outputs 4 x 400mA 12x3.3V TTL Inputs, 2x3.3V TTL outputs
Serial interface:	RS232 115200 baud max.
Video output:	by serial JPEG transfer
Supply voltage:	9-36V DC (Nominal 12-24V) 1.5W
Elec. Connections:	Molex™ connectors
Dimensions:	(lwxh) 60mmx60mmx10mm +lensholder + optics
Lens holder:	12mm diameter lens holder included, Lens <b>not</b> included. CS-Mount and C-Mount available as option
Housing	None
Illumination	None included, but 4pin connector for 24V and Illimination control on board
Weight: excl. optics	approx. 20g (C-Mount: approx 40g)



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