

Video Imaging

Smart Cameras | Smart Colour Cameras

SC-CVC01

Smart Camera System, Colour, 640x480
VGA, Linux-OS, CS mount

Art-No. 59701



Lens protecting cylinder not included

Features

Freely Programmable High Speed Camera
Up to 185 fps at Full Resolution
CMOS Sensor with Global Shutter
Intel Xscale Processor with 400 MHz Clock
Open Source Linux Operating System
Accessible Xilinx Spartan-3 FPGA

Very Compact Design
Extremely Low Power Consumption
Ethernet- and CAN-Interface
Protection Rating IP65/67
Standard software packages available

Specifications

Sensor	1/2" CMOS, Global Shutter
Pixel pitch	9.9 (h) x 9.9 (v) μm
IR cut filter	not installed
Resolution	640 x 480 VGA
Frame Rate	185 fps at 480 lines up to 1397 fps at 64 lines
Electronic shutter	27 μs to 1 s
Lens mount	CS or C with optional distance ring or lens protecting cylinder
CPU	Intel Xscale PXA255, 400 MHz
Operating System	Linux Kernel 2.6.6
SDK	Toolchain
Storage capacity	64 MByte SDRAM at CPU, 32 MByte SDRAM at FPGA, 16 kBit FRAM
Flash memory	32 MByte
Ethernet interface	100BaseT, TCP/IP
Bus-Interface	CAN bus max. 1 Mbit/s
Inputs / Outputs	2 inputs / 3 outputs 24 V I/O, up to 1.5Amps current
Illumination	not implemented

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(Specifications continued)

Supply voltage (+/-10%)	24 VDC
Current consumption	120 mA outputs unloaded
Power consumption	1,9 W outputs unloaded
Dimensions (HxWxD)	45 x 45 x 85 mm
Operating Temperature	-10 to +50 °C
Storage Temperature	-10 to +60 °C
Vibration	according to DIN / IEC 68 / EN 60068 part 2-6. 0,35 mm distance at 10...60 Hz. 5 g acceleration at 60...150 Hz.
Shock	according to DIN / IEC 68 / EN 60068 part 2-27. +/- 30 g at 11 ms duration. 5 shocks in each direction.
Temperature Control	integrated
Material	free of copper and PTFE
Protection rating	IP65 and IP67 with lens protecting cylinder (Option)
Weight	approx. 184 g
Special features	accessible Xilinx Spartan-3 FPGA

Accessories

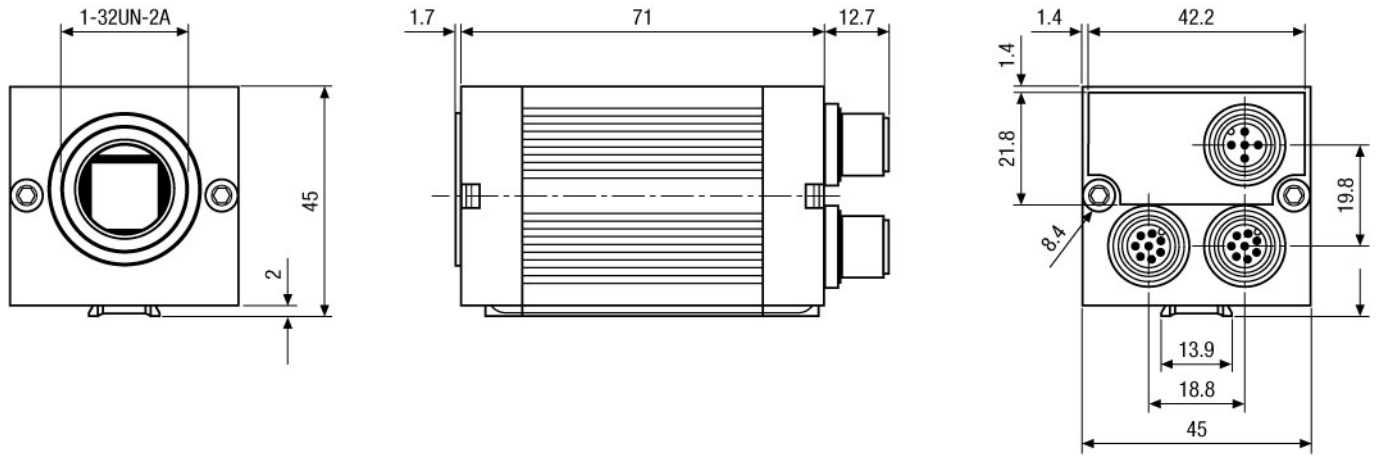
59707 / SC-ETH-CAB	Ethernet Connecting Cable 3m to RJ45
59708 / SC-PWR-CAB	Cable for Power Supply and I/O with blank ends
59709 / SC-TRIPOD	Tripod Adapter
59710 / SC-LEN-CYL	Lens Protecting Cylinder
59711 / SC-WED	Wedge Adapter
59712 / SC-WED-GND	Wedge Adapter with Ground Plate
59560 / STC-C-ADP	CS- to C-Mount Adapter 5 mm

Product Information

This high quality smart camera system integrates a full Linux based processing unit which lets you install or program any application for your Machine Vision requirements. The "Open Architecture" allows maximum flexibility for either to use standard available software packages or individually written software tailored to your specific needs.

The very compact design, the low weight and the very low power consumption grant seamless integration into existing and new applications. Frame rates up to 185 fps in full resolution and up to more than 1000 fps in ROI mode cope with the increased speed of modern automation and production machines. Across the integrated Ethernet bus several cameras can be synchronized throughout the entire network and through the Ethernet or CAN interface automation controllers can be instructed directly.

The Xilinx Spartan-3 FPGA, which is placed right in front of the main Intel processor, allows access for integration of powerful image preprocessing algorithms.



Maße/Dimensions: mm

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