



# CAMSYS

with integrated FPGA-based lighting optimization

**Camera:**

- QI CAM III (CCD or CMOS, C-Mount different sensor sizes)
- Integrated lighting controller
- Camera and lighting are controlled by an interface (USB 2.0/GigE)
- Optional with freely configurable FPGA (Spartan 3/6 Serie Xilinx)

**Lens (optional):**

Telecentric, very low distortion

“ **Ringlight:**

QI Ringlight (4 quadrants, Fresnel lens, diameter 93 mm, white)



CAMSYS with integrated image optimization



Model: CAMSYS 3400

**Applications for camera-internal preprocessing of the image signal:**

- Automatic image optimization by illumination variation
- Real time calculation of standard image processing filters
- Procedures for contrast enhancement
- Optional: CAN interface
- Customer-oriented application development is possible

## Technical Information

### electrical

CAMSYS 3400	
Image format	1/2" HAD CCD
Active area	7.48 mm (H) x 6.15 mm (V)
Pixel size	8.30 µm x 8.30 µm
Active pixel	768 H x 576 V
Color filter	RGB Bayer Pattern
Shutter functions	Global Shutter, Progressive Scan, 10 s long exposure
Frame rate	up to 50 pictures per second
A/D resolution	12 Bit
Programming interface	Standard JTAG

Other resolution of the sensor are possible on request.

Power supply	9 - 24 V extern
Power consumption	nominally 2 watts (depending on the type of the sensor and internal signal processing)
Image data interface	GigEVision / USB 2.0

### mechanic

Lens adapted	C-Mount
Picture format	1/2"
Dimensions	62 mm x 48 mm x 48 mm (L x W x H) without lens
Interface	USB cable (commercially) SUB-D (Power + Trigger)
Weight	approx. 150 g (without lens)

### environmental conditions

Environmental temperature	operational 0° to +55° Celsius storage -20° to +70° Celsius
Humidity	operational 20 % to 93 % rel. humidity storage up to 98 % rel. humidity



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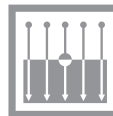
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