

## COST-EFFECTIVE CMOS SOLUTION FOR OUTSTANDING ANALYSIS



10 bit CMOS digital camera

Small, light & low power system benefits

High resolution (1280x1024 pixels)

Zooming, sub-sampling & averaging user control

USB 2.0 Plug & Play

Full SDK based on ActiveX technology

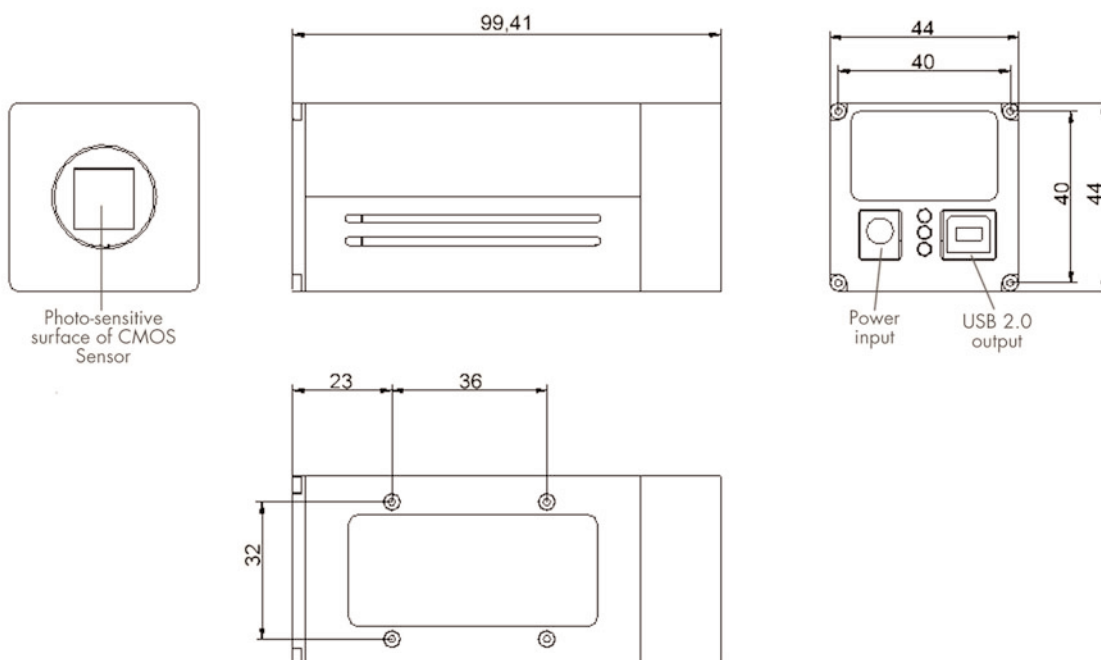
LABCam makes use of the latest developments in CMOS imaging technology. Camera performances are such that LABCam offers high-grade measurements for limited budget. Typical applications for LABCam include:

- display uniformity evaluation
- display defect inspection
- automobile lighting assessment
- dashboard and cluster investigation
- manufacturing quality control
- microscopy and medical imaging

LABCam delivers fast readout time through a 10-bit ADC. USB 2 interface ensures not only higher data transfer at 480 Mbit/s, but also guarantees easier connection to a computer. Individual pixel addressing and on-board custom CPU enables the user to control Window of Interest zooming, sub-sampling, frame averaging and exposure. Optional on-chip color filters or front-end photopic filter bring metrology tools for colorimetry and photometry application requirements.

LABCam is supplied with full remote control and analysis software. Moreover, extensive SDK library enables the advanced users to easily develop customized tasks (code samples are provided).

## Dimensions



## Options

<b>Color imaging</b>	RGB CMOS Sensor
<b>Filter design</b>	Custom design including neutral density, band pass, color and polarizing filters
<b>Photometry</b>	Photopic filter and calibration for advanced applications
<b>Optics</b>	Several lens options among off-the-shelf catalog optics or ELDIM high grade optics

## Specifications

<b>CMOS resolution</b>	1280 x 1024 pixels
<b>Pixel size</b>	6 x 6 $\mu\text{m}$
<b>Sensor type</b>	Progressive scan CMOS
<b>Frame rate (*)</b>	Up to 4 fps at full resolution Up to 10 fps at VGA resolution
<b>Digitalization</b>	10 bit ADC
<b>Lens mount</b>	C-mount
<b>Power supply</b>	5 VDC (110-220 ADC / 5 VDC adaptor included), max. 3 W
<b>Weight</b>	max. 230 g
<b>Housing size (L x W xH)</b>	99.4mm x 44mm x 44mm
<b>Digital interface</b>	USB 2.0

(\*) Actual frame rate might depend on the PC processing capabilities to accept high bandwidth data rate



ELECTRONICS FOR DISPLAYS AND IMAGING DEVICES

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