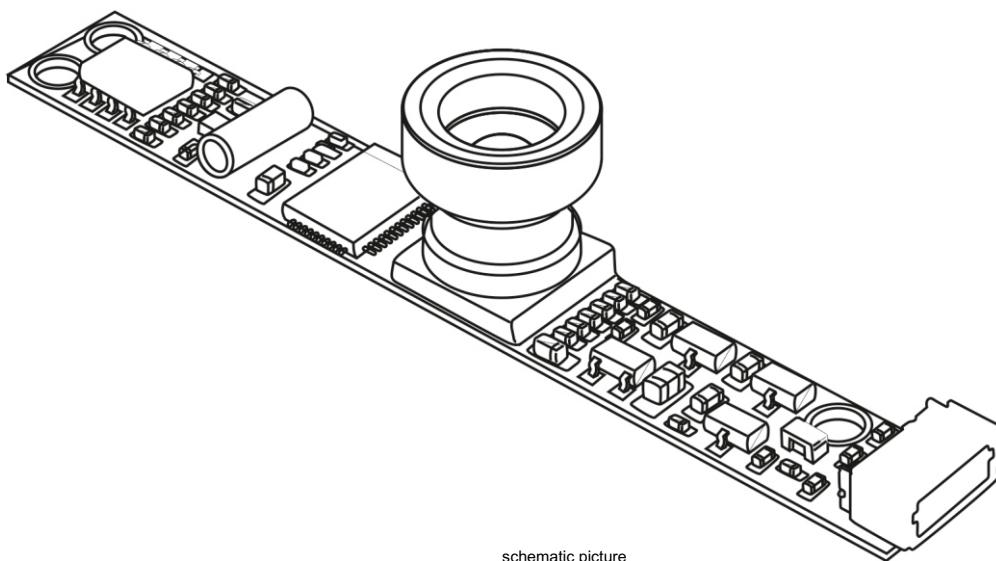


Specification

96365

Delock USB 2.0 camera module 5.04 Mpix

EAN: 4043619963652



schematic picture

Edition: 02/2016

Specification

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General Description

This is 5.04 mega pixel and AF camera module with sensor on board, lens module and USB2.0 video/image process controller. It is designed for all kinds of electronic image processing.

The OV5640 is a low voltage, high performance, 1/4 inch CMOS image sensor that provides the full functionality of a single chip camera using OmniBSI™ backside illumination architecture in a small footprint package. It provides full-frame, sub-sample, windowed or arbitrarily scaled 8-bit/10-bit images in various formats via the control of the Serial Camera Control Bus (SCCB) interface.

Features

- USB specification compliance
 - USB 2.0 and USB 1.1 compliance
 - USB video V1.1 compliance (UVC)
 - USB high speed, full speed auto switching
- Supports 2592x1944, QXGA, SXGA, 1080P, 720P, VGA, CIF output formats.
- USB Video Class compliant, works with native driver in Microsoft Windows XP 32-bit/64-bit, VISTA 32-bit/64-bit, Windows 7 and Windows 8 system, also with Linux with UVC Video4Linux
- Auto Exposure (AE).
- Auto White Balance (AWB)
- Auto Flicker Correction.
- Color Correction.
- Gamma Correction.
- Dark Level Compensation.
- Auto Edge enhancement.
- Software controlled connection to USB bus for re-enumeration.
- Adjustable and dynamic frame rate control on USB transaction.
- Automatic frame rate adjustment when exposure in low light environment.
- Selective suspend to minimize power consumption.

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Character:

- Total height: 96372: 48°: 6.30 mm +/- 0.10 mm
96370: 55°: 12.00 mm +/- 0.10 mm
96368: 80°: 13.00 mm +/- 0.10 mm
- The dimension of lens's seat: 8.0 × 8.0 mm.
- With IR Filter
- Working temperature: 0°C ~ 50°C
- Storage temperature: -40°C ~ 80°C

Parameter	SPEC.
Optical sensor	OV5640, 1/4 inch COMS sensor
Sensor resolution	2592 (H) x 1944 (V), QSXGA
Unit pixel size	1.4 um
Image area	3673.6 x 2738.4 micrometer
Color filter	RGB Bayer pattern
Shutter type	Electronic rolling shutter
Max. video frame rate	90fps@VGA, 30fps@720p
F Number	2.8
AEC / AGC/ white balance	Auto
Focus distance	Fix focus 30 cm - ∞
Interface	USB 2.0
Power	USB Bus Power
Dimensions (mm) (L x W)	60 mm x 8 mm
Operating temperature	0°C ~ 50°C
Operating system request	Windows XP, Windows 7/8/8.1/10
Max pixel rate	28 Mp/s
ADC accuracy	10-bit
USB 2.0 PHY	On Chip PHY
Power consumption suspend	90 mA ± 5 mA
operating	140 mA ± 5 mA @ 640x480

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Video capability

Standard	Resolution	fps
HVGA	320x480	30fps
VGA	640x480	30fps
XGA	1024x768	30fps
720p	1280x720	30fps
	1280x960	30fps
	1600x1200	15fps
1080p	1920x1080	15fps
	2048x1536	15fps
5MP	2592x1944	7fps

System requirements

- Device with Microsoft Windows Vista/7/8/8.1/10 or Linux above kernel 2.6.15 with Video4Linux

Optical lens specification

	Field of view	F	Elements
96371 / 96372	D=60° / H=46° / V=32°	2.8	4
96369 / 96370	D=80° / H=60° / V=45°	3.0	5
96367 / 96368	D=170° / H=107° / V=80°	2.5	4

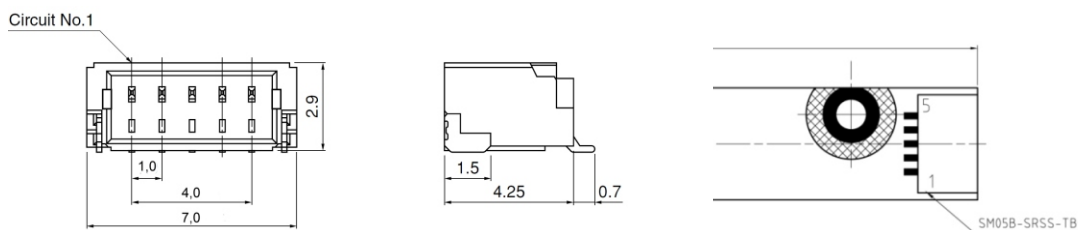
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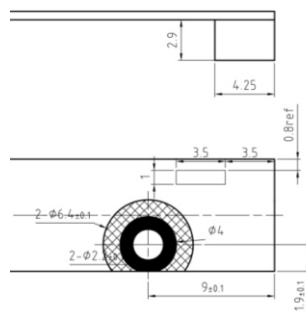
EAN: 4043619963652

Pin assignment



(5pin 1.0mm pitch) connector definition:

1	USB D+
2	USB D-
3	USB 5 V
4	NC
5	GND



Optional cable:

A95843 10cm

A95985 1.5m USB plug A

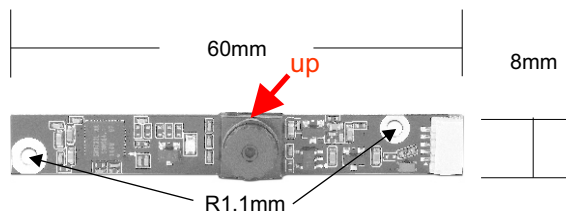
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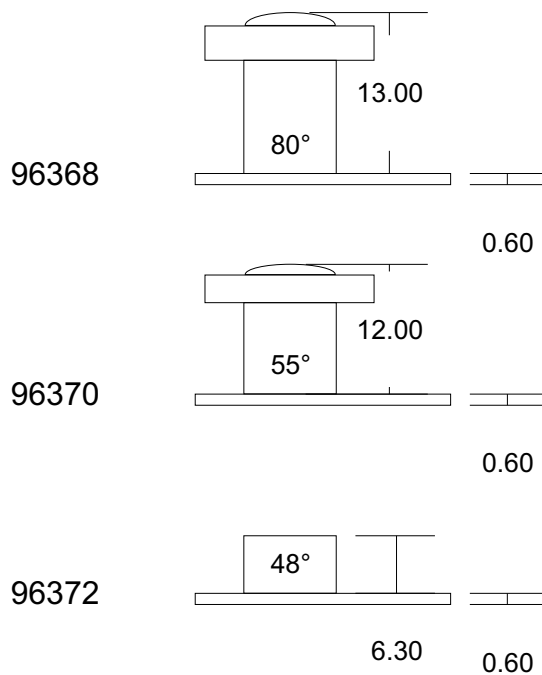
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Structural diagram



lens height



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WEEE note

The WEEE (Waste Electrical and Electronic Equipment) directive, which came into force on 13 February 2003, lead to a comprehensive change in the disposal of used electric products. It is the main purpose of this directive to avoid electric waste products (WEEE), while simultaneously promoting the re-usage, recycling and other forms of reconditioning in order to reduce the amount of waste. The WEEE logo on the product and the package shows that the product should not be disposed of with regular garbage. You are responsible for disposing all used electric and electronic devices at the corresponding collection sites. The separate collection and meaningful re-usage of electronic waste helps to deal with natural resources more economically. In addition, re-using electronic waste contributes to the preservation of the environment and human health. Additional information regarding the disposal of electric and electronic devices, their re-usage and the collection sites can be found at your local authorities, disposal companies, specialist shops and the manufacturer of the product.

RoHS conformity

This product complies with the directive 2002/95/EC of the European parliament and the council from January 27th 2003 concerning the restricted use of dangerous substances in electrical and electronical devices (RoHS) as well as its modification. This product is compliant with Directive 2011/65/EU of 3 January 2013.

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Support Delock

If you have further questions, please contact our customer support
support@delock.de.

You can find current product information on our homepage: www.delock.com.

Final clause

Information and data contained in this manual are subject to change without notice in advance. Errors and misprints excepted.

Copyright

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