

SPB101C User Manual

Release Note:

V1.0 16th February, 2011 First release

USB Board Camera module version

Electronics123.com, Inc.

www.electronics123.com

General Description

The low cost USB CMOS board camera module (model:SB101C) is ideal for many applications like security systems, portable video system, video phones, industrial machine monitoring and toys. It use high quality image sensors made by OmniVision, one of the world leaders in this field of electronics.

The USB camera module are not designed as consumer items but are ideal for equipment manufacturers, experimenters and hobbyists.

Applications

Car and ship control, electrical equipment, oil field equipment, industrial equipment, remote site monitoring, environmental monitoring, etc.

Features

- CMOS VGA sensor for high quality image and low power consumption.
- High speed USB 2.0 interface for high resolution PC camera interface.
- Active pixel technology for sharp image and accurate color reproduction.
- Superior low light performance – ideal for any lighting condition.
- Super small outline and thin profile for embedded applications.
- High frame rate– deliver 30 fps in VGA.
- High quality lens for true to life undistorted color image.
- Bus powered with low power consumption – ideal for portable equipment.
- UVC for use in Linux, Windows XP SP2 or above.
- Camera with UVC.

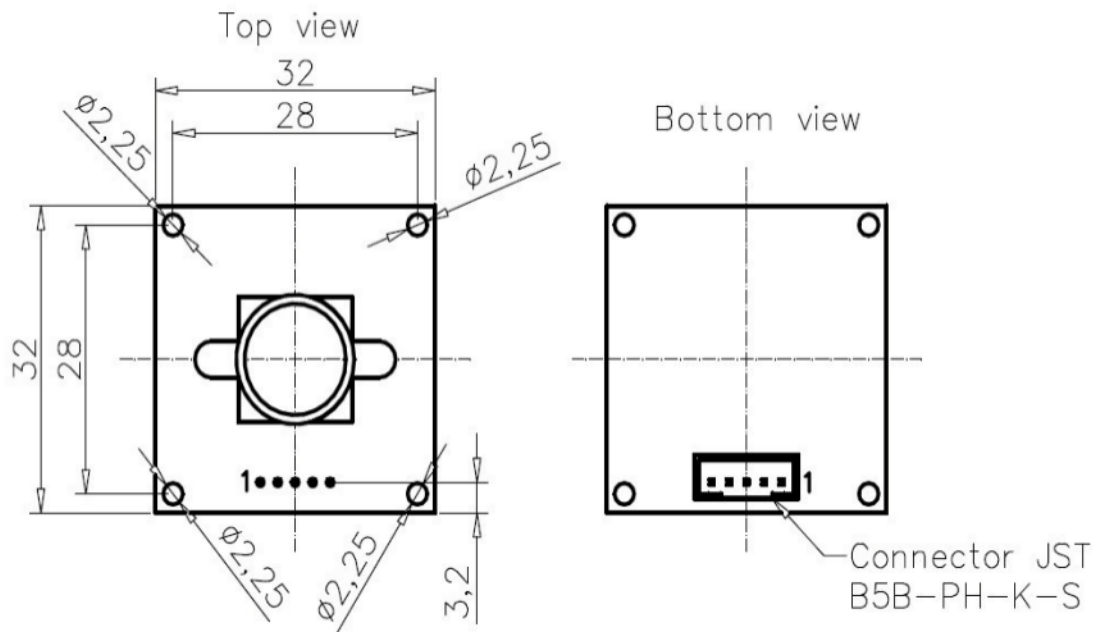
Parameters

- Image Sensor

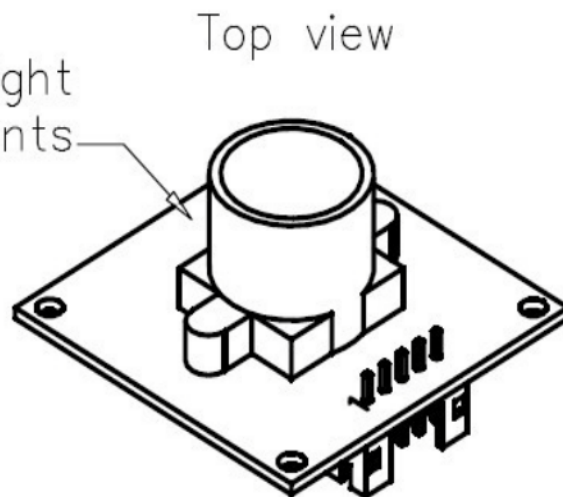
1/4" Color CMOS image sensor OV7725

- DSP
AV318S
- Effective Pixels
640 (H) x 480 (V) pixels
- Signal Output
Serial data for USB standard compliant 2.0 and 1.1
- Performance
30 fps @ 640 x 480
- Operating System
O/S Windows XP , VISTA,win7 and Linux
- UVC
Windows XP SP2 or above
- Operating temperature
0°C-65°C
- Power Consumption
50mA
- Dimensions (mm)
32mm*32mm

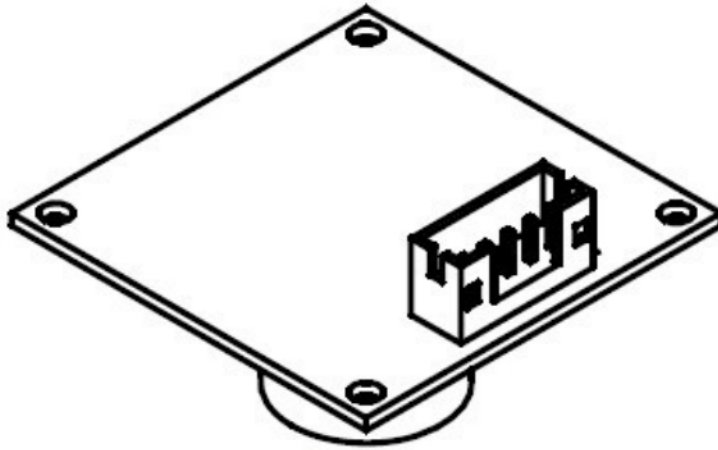
Board Layout



3.6mm maximum height
on this side components



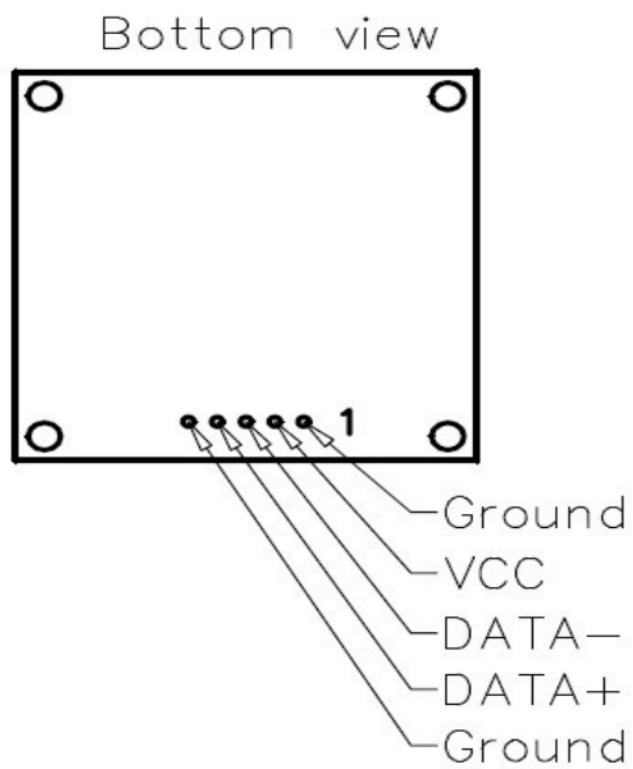
Bottom view



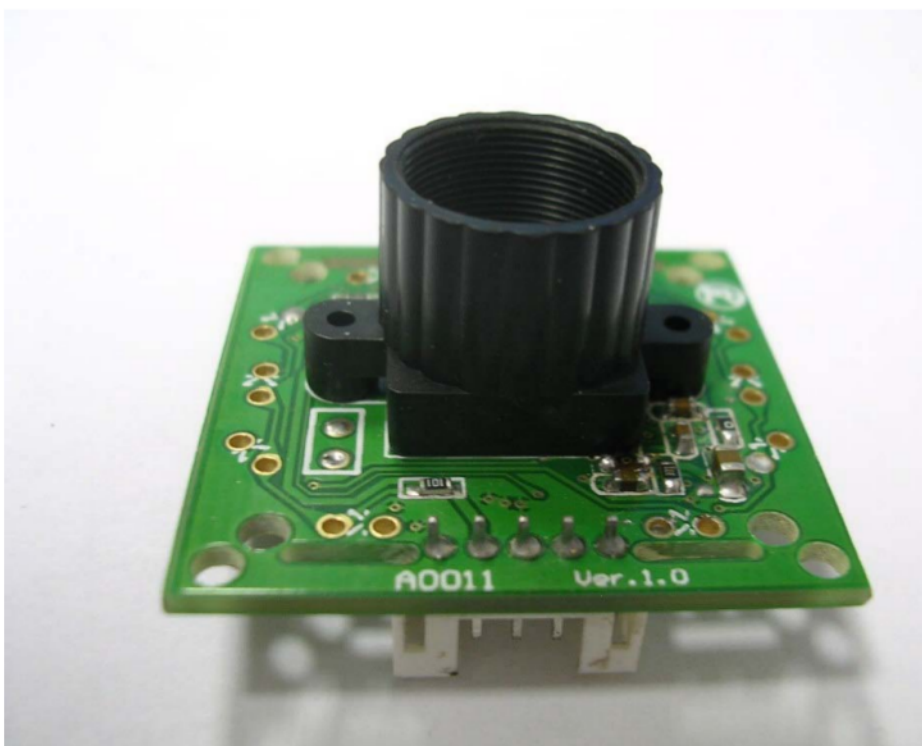
USB Interface

Connecting the Device to USB

Pin-outs:



Product Image



CERTIFICATIONS

FCC

CE

ROHS

WEE

www.electronics123.com

general@electronics123.com
330.482.9944/888.549.3749