

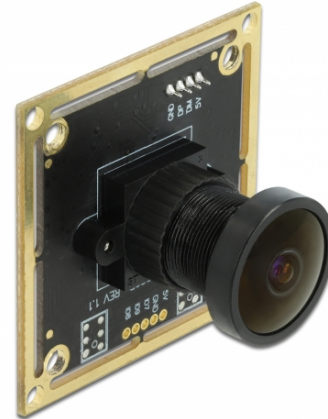
# Delock USB 2.0 Camera Module with Wide Dynamic Range 1.92 mega pixel 120° fix focus

## Description

This USB 2.0 camera module by Delock offers in a compact construction a high resolution and low power consumption. It is ideally suited for installation in industrial components like **IPCs, embedded systems, sensors** and in **device manufacture**. The use of a photosensitive sensor with back side illumination (BSI) expands the scope of this module.

### WDR - Wide Dynamic Range

It allows the adjustment of the brightest and darkest parts of the image to improve the quality of the still image.



## Specification

- Connector: 1 x 4 pin USB 2.0 pin header female SMT, pitch 1.5 mm
- Pin assignment:
  - Pin 1 - GND
  - Pin 2 - USB D+
  - Pin 3 - USB D-
  - Pin 4 - VCC
- Resolution: 1.92 megapixel
- With optical IR filter
- Maximum resolution: 1920 x 1080
- Automatic image control functions including:
  - Automatic exposure control (AEC)
  - Automatic white balance (AWB)
  - Automatic band filter (ABF)
  - Automatic black-level calibration (ABLC)
- Image quality controls including colour saturation, gamma, sharpness (edge enhancement), lens correction, white pixel canceling, noise canceling, and automatic 50 / 60 Hz luminance detection
- Current consumption:
  - sensor active: 160 mA ± 5 mA @ 1920 x 1080
- Operating voltage: 5 V DC
- Operating temperature: 5 °C ~ 50 °C
- Operating humidity: 0 ~ 80 %
- Sensor size: 1/2.7"
- Fix focus: 10 cm - infinite
- Aperture: F/2,5
- Frame rates:
  - 30 fps @ 1820 x 1080
  - 60 fps @ 1280 x 720
  - 60 fps @ 800 x 600
  - 120 fps @ 640 x 480
  - 120 fps @ 320 x 240
- Dimensions (LxWxH): ca. 38 x 38 x 29 mm

## Item no. 96389

EAN: 4043619963898

Country of origin: China

Package: • Retail Box

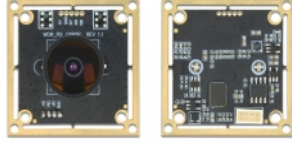
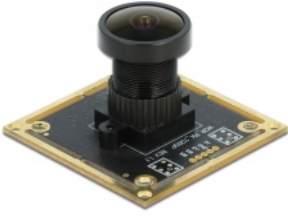
## System requirements

- PC with UVC support
- Linux Kernel 2.6.15 and above with Video4Linux
- Windows 7/7-64/8.1/8.1-64/10/10-64
- DirectX 9.0c or above

## Package content

- Camera Module

Images



Operation system: Windows 8.1 64-Bit  
 Windows 8.1 32-Bit  
 Windows 7 64-Bit  
 Windows 7 32-Bit  
 ex Linux Kernel 2.6.x  
 ex Mac OS 10.4.8  
 ex Android 4.0  
 Windows 10 32-Bit  
 Windows 10 64-Bit

#### Interface

connector: 1 x WTB 1.5 mm Pitch

#### Technical characteristics

Operating voltage: 5 V DC  
 Operating temperature: -20 °C ~ 60 °C  
 Maximum screen resolution: 1080p (1920 x 1080)  
 Sensor Size: 1/2.7"  
 Current consumption: 130 mA  
 Resolution: 2.1 megapixel  
 up to 1920 x 1080 @ 30 Hz  
 Signal noise ratio (SNR): 38.9 dB  
 Frame rate: 30 fps @ 1920 x 1080, 1280 x 800, 1280 x 720, 1024 x 768, 840 x 480, 640 x 360, 640 x 480, 352 x 288  
 Fixed focus: 2 cm to infinity

#### Physical characteristics

Length: 38.0 mm  
 Width: 38.0 mm  
 Height: 40.0 mm