

# USB components

## VRmC-9+/BW-PRO

Compact USB 2.0 Camera in Aluminium Housing

- Extra small form factor
- Highspeed USB interface
- Cost effective for high volumes
- SDK and API included, same API on all cameras
- Software trigger

### Sensor Characteristics

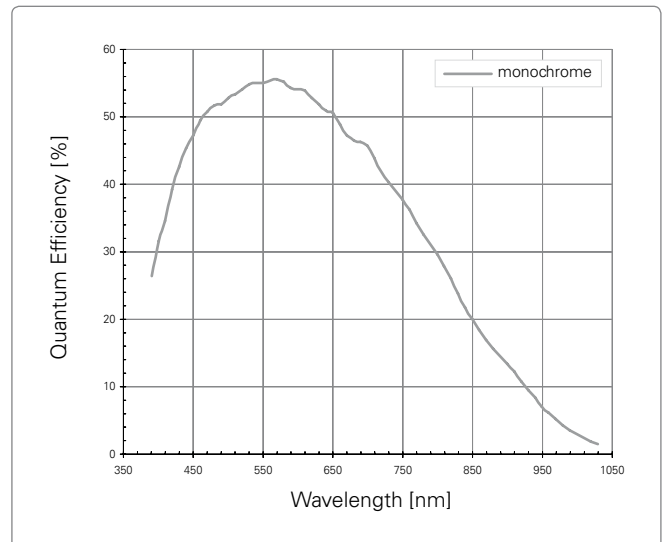
Type	ON Semiconductor MT9M001
Technology	CMOS, rolling shutter
Mono/Color	monochrome
Sensor Size	1/2"
Resolution	1288 x 1032
Pixel Size	5.2 $\mu\text{m}$ x 5.2 $\mu\text{m}$
Max. Frame Rate *	30 Hz
Min. Exposure Time	38 $\mu\text{s}$
Bit Depth	8/10 bit
Pixel Clock	5 ... 48 MHz
Responsivity	> 2.1 V/lux·sec
Dynamic Range	68 dB linear

### Camera Features

- User programmable windowing and panning
- Freely definable region of interest (ROI)
- Adjustable anti-blooming circuit
- Parallel operation of multiple cameras possible



Photo similar to original product



\* Maximum value at full ROI with minimum exposure time. Actual value depends on pixel clock, sensor settings, and image format.

## Physical Characteristics

### Housing

Dimensions (with C-Mount adapter ring) 36 x 36 x 25 mm

Dimensions (without C-Mount adapter ring) 36 x 36 x 20 mm

Material Anodized aluminium

### Ambient Conditions

Operating Temperature 0 ... +40 °C

Storage Temperature -30 ... +80 °C

### Optics

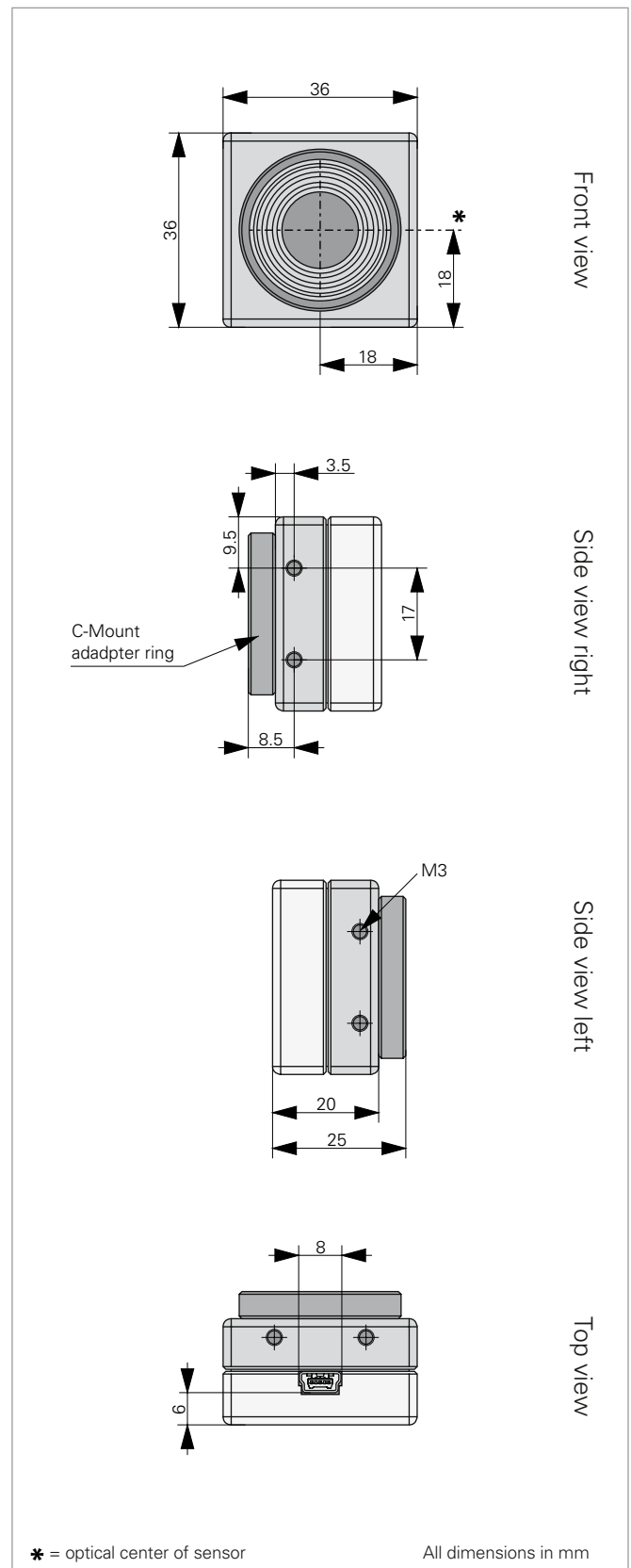
Lens Lens not included

Lens Mount CS-Mount  
C-Mount (with supplied adapter ring)

Filter glass Window glass

## Interfaces

USB 2.0 port (USB Mini-B); power supply via USB



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