

# USB components

## VRmC-14/C-PRO

## VRmC-14/BW-PRO

USB 2.0 Camera in Aluminium Housing

- Highspeed USB interface
- Cost effective for high volumes
- SDK and API included, same API on all cameras
- Trigger input and strobe output
- Ultra precise sensor positioning

### Sensor Characteristics

Type	Sony ICX445
Technology	CCD, interline transfer
Mono/Color	Monochrome or color
Sensor Size	1/3"
Resolution	1296 x 966
Pixel Size	3.75 $\mu\text{m}$ x 3.75 $\mu\text{m}$
Max. Frame Rate *	22 Hz
Min. Exposure Time	15 $\mu\text{s}$
Bit Depth	8/10 bit
Pixel Clock	36 MHz

### Camera Features

User programmable windowing and panning

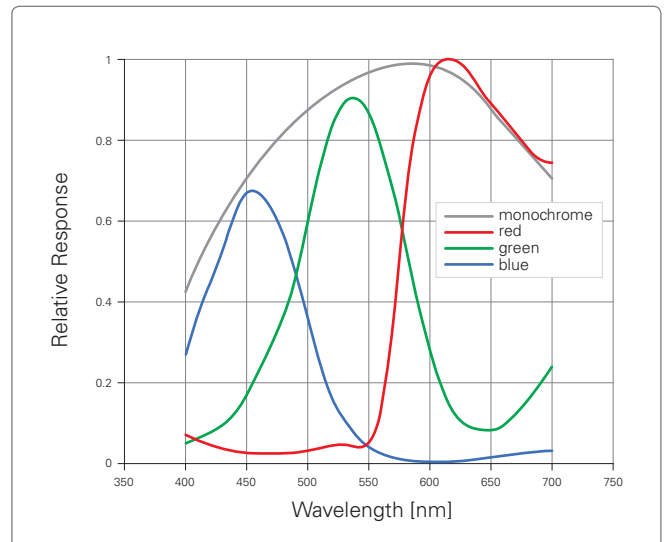
Freely definable region of interest (ROI)

Adjustable anti-blooming circuit

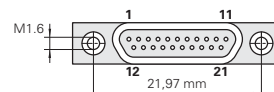
Parallel operation of multiple cameras possible



Photo similar to original product



### MPE Garry Micro-T 386-2-021-ZS0



Pin	Signal	Pin	Signal
1	GND	9	GND
2	Strobe Out - (potential-free)	10	+5 V I/O
3	Strobe Out + (potential-free)	11	+5 V I/O
4	TTL Strobe Out (+5 V)	12-21	reserved
5	GND		
6	Trigger In - (potential-free)		
7	Trigger In + (potential-free)		
8	TTL Trigger In (+3.3 ... 5 V)		

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

## Physical Characteristics

### Housing

Dimensions	46 x 42 x 39 mm
Material	anodized aluminium
Lens Mount	C-Mount (lens not included)
IR-cut filter	included

### Ambient Conditions

Operating Temperature	0 ... +40 °C
Storage Temperature	-30 ... +80 °C

## Interfaces

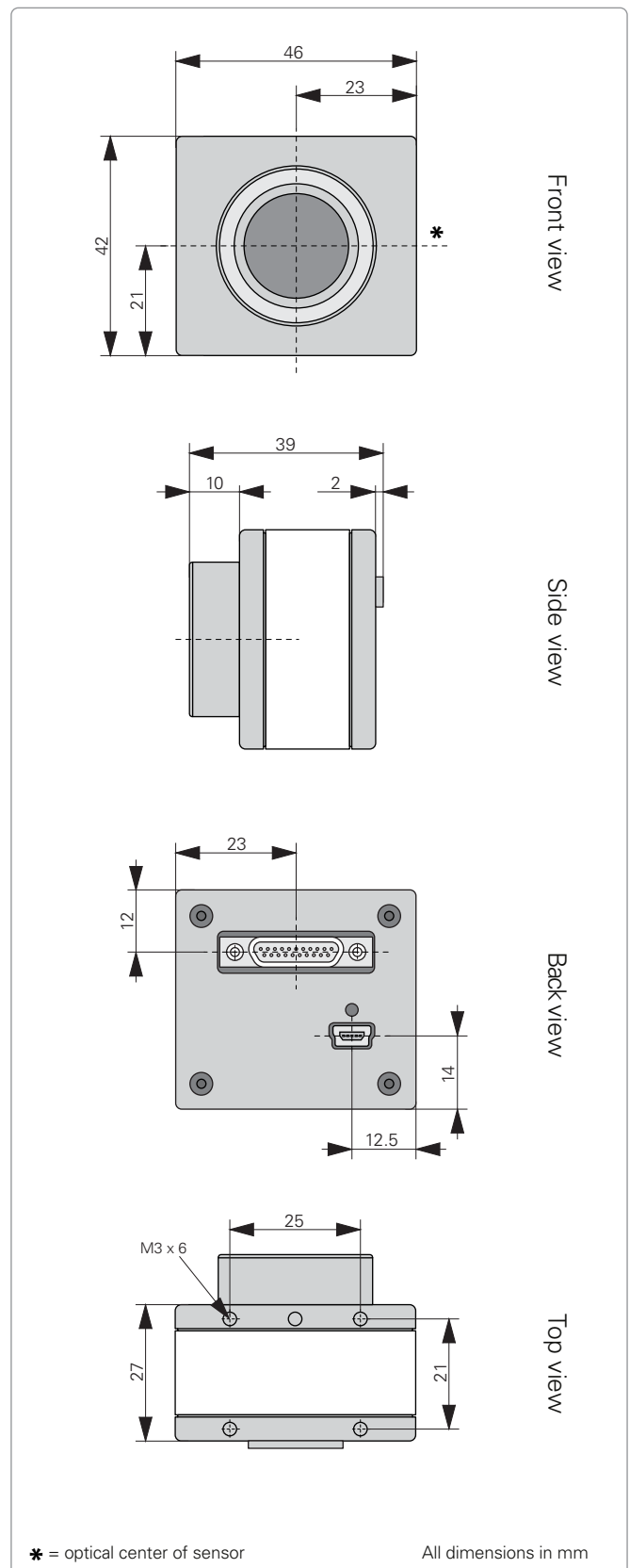
USB 2.0 port (USB Mini-B); power supply via USB

MPE-Garry Micro-T Connector for Trigger, Strobe, and external power supply

## Options

### Optics

- Filters: window glass, IR-pass/cut filter, without filter.



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