

# USB components

## VRmFC-22/C-PRO

## VRmFC-22/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
- FPGA chip with 256 MB RAM
- Ultra precise sensor positioning

### Sensor Characteristics

Type	CMOSIS CMV2000
Technology	CMOS, global shutter
Mono/Color	Monochrome or color
Sensor Size	2/3" ultra wide
Resolution	2048 x 1088
Pixel Size	5.5 $\mu\text{m}$ x 5.5 $\mu\text{m}$
Max. Frame Rate *	44 Hz
Min. Exposure Time	44.3 $\mu\text{s}$
Bit Depth	8/10 bit
Pixel Clock	4 x 25 MHz
Responsivity	5.56 V/lux-sec
Dynamic Range	60 dB

### Camera Features

User programmable windowing and panning

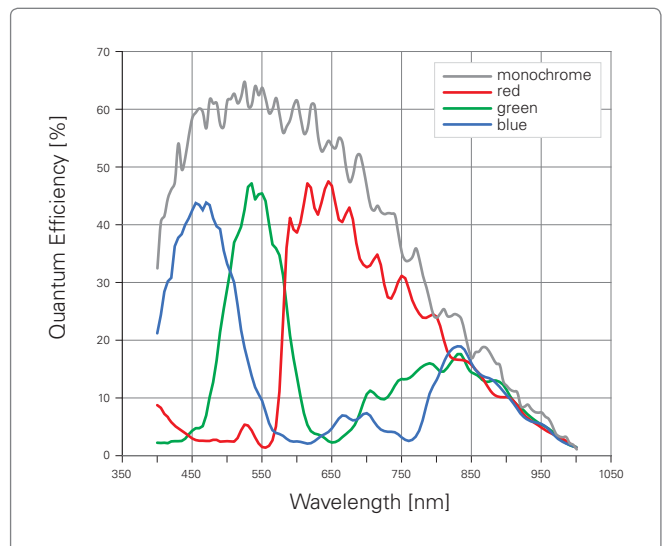
Freely definable vertical region of interest (ROI)

Adjustable anti-blooming circuit

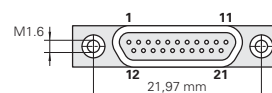
Parallel operation of multiple cameras possible



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 45 mm
Material	anodized aluminium
Lens Mount	C-Mount (lens not included)
Filter glass	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.

