USB components

VRmFC-22/C-OEM
VRmFC-22/BW-OEM

USB 2.0 Board Level Camera

- Highspeed USB interface
- FPGA chip with 256 MB RAM
- SDK and API included, same API on all cameras
- Trigger input and strobe output

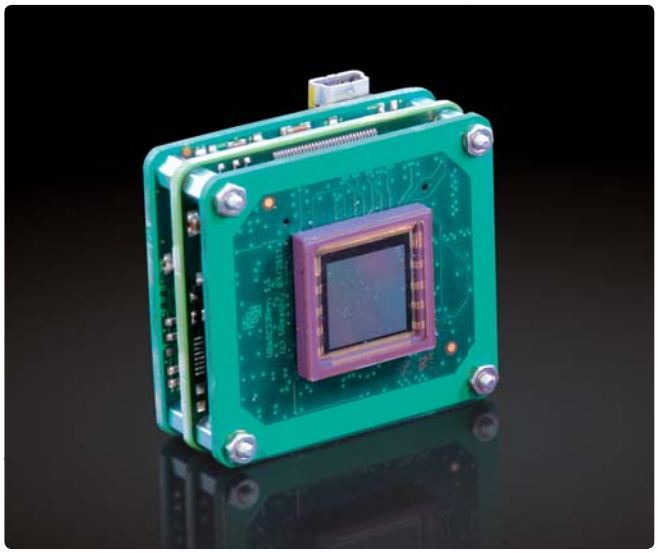
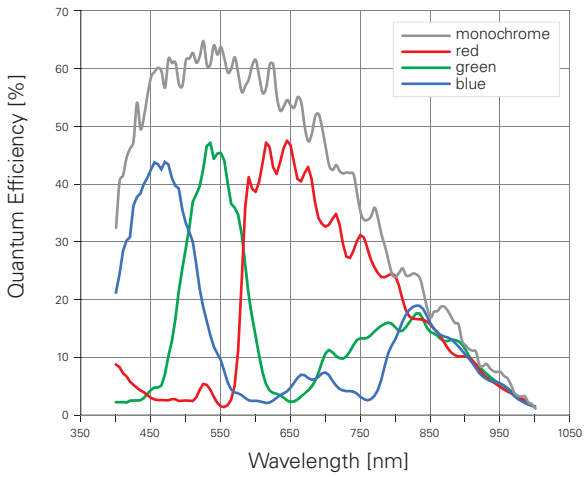


Photo similar to original product

Sensor Characteristics

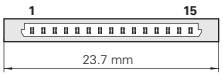
Type	CMOSIS CMV2000
Technology	CMOS, global shutter
Mono/Color	Monochrome or color
Sensor Size	2/3“ ultra wide
Resolution	2048 x 1088
Pixel Size	5.5 µm x 5.5 µm
Max. Frame Rate *	44 Hz
Min. Exposure Time	44.3 µs
Bit Depth	8/10 bit
Pixel Clock	4 x 25 MHz
Responsivity	5.56 V/lux·sec
Dynamic Range	60 dB



Camera Features

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

Hirose DF14-15P



Pin	Signal	Pin	Signal
1	+5 V I/O	9	TTL Trigger In (+3.3 ... 5 V)
2	+5 V I/O	10	TTL Strobe Out (+5 V)
3	GND	11	reserved
4	reserved	12	reserved
5	reserved	13	GND
6	reserved	14	reserved
7	reserved	15	reserved
8	GND		

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

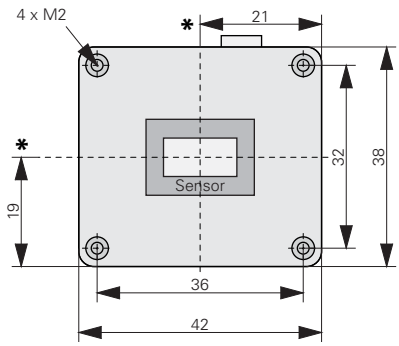
USB components

Physical Characteristics

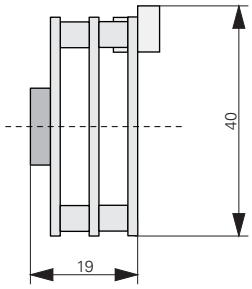
Dimensions	
Number of Boards	3
Board Stack Size	42 x 40 x 23 mm
Mounting Holes	36 x 32 mm
Inter-board Distance	5 mm
Ambient Conditions	
Operating Temperature	0 ... +40 °C
Storage Temperature	-30 ... +80 °C

Interfaces

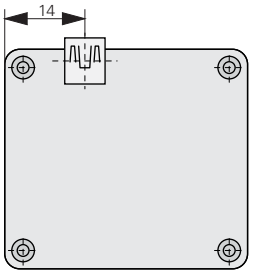
USB 2.0 port (USB Mini-B); power supply via USB
Hirose DF14-15P for trigger, strobe, and external power supply



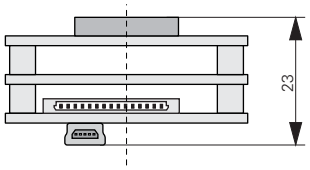
Front view



Side view



Back view



Top view

✱ = optical center of sensor

All dimensions in mm