

USB components

VRmFC-42/C-COB

VRmFC-42/BW-COB

USB 2.0 Board Level Camera with Lens Mount

- 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 CMV4000
Technology	CMOS, global shutter
Mono/Color	Monochrome or color
Sensor Size	1"
Resolution	2048 x 2048
Pixel Size	5.5 μm x 5.5 μm
Max. Frame Rate *	24 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

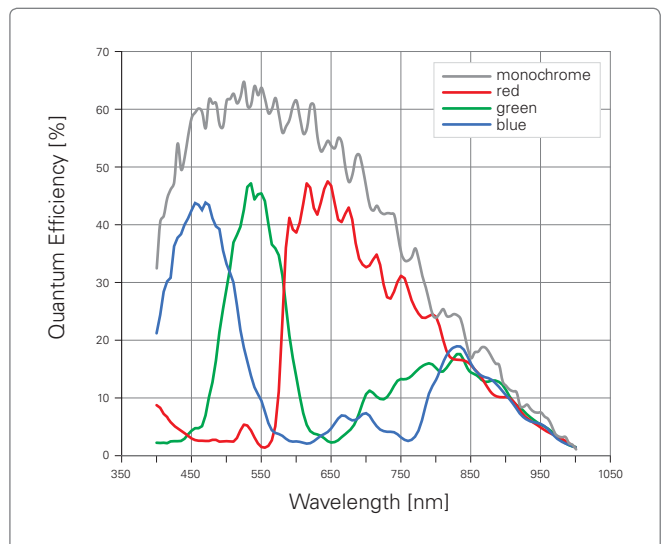
Freely definable vertical region of interest (ROI)

Adjustable anti-blooming circuit

Parallel operation of multiple cameras possible



Photo similar to original product



Hirose DF14-15P

Pin	Signal	Pin	Signal
1	+5V I/O	9	TTL Trigger In (+3.3 ... 5 V)
2	+5V 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.

Physical Characteristics

Dimensions

Number of Boards	3
Board Stack Size COB C-mount	46 x 42 x 39 mm
Mounting Holes	36 x 32 mm
Inter-board Distance	5 mm

Ambient Conditions

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

Optics

COB C-Mount	C-Mount (lens not included) Filter glass
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Interfaces

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

Hirose DF14-15P for trigger, strobe, and external power supply

Options

Optics

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

