



OEM camera with freely positionable offset sensor

The CMOS sensor with global shutter is connected to the central unit by an up to 50 cm long flex-foil cable with LVDS transmission and can be freely positioned.

Name of product:

VRmC-12 eOEM (board camera)

VRmC-12 eCOB (board camera equipped with optics)

Sensor characteristics:

- 754x482 pixel array size
- Global shutter, CMOS
- Active pixel size 6 μ m x 6 μ m
- 1/3" optical format
- User programmable windowing and panning
- Pixelclock 5-26.6 MHz
- Bayer RGB pattern (color version)
- Switchable High Dynamic Mode (Multiple Exposure with image superposition)

- Switchable Auto Exposure and Auto Gain Mode
- Adjustable anti-blooming circuit

Optical characteristics:

- Responsivity 4.8 V/lux·sec
- IR filter available

Physical characteristics of the central unit:

- Board dimensions 42 x 38 mm
- Total height of package ca. 18 mm
- Mounting holes 36 x 32 mm
- Stack of 2 boards
- Inter-board distance 5 mm
- Power supply via USB (no additional power supply necessary)
- Standard Mini USB-B connector
- Operating temperature 0°C to 40°C
- Storage temperature -30°C to 80°C

Dimensions of the freely positionable sensor board:

- Board dimensions 28 x 19 mm

Cob (Camera on board) variant:

- Standard lens: 12.0mm F2.0
- Alternative lenses are available on request

Image formats

- [752x480] 69 frames/s
- [640x480] 80 frames/s

Data transfer characteristics:

- High-speed USB 2.0 (EHCI)
- Parallel operation of multiple cameras possible

Special features:

- No frame grabbing hardware necessary
- Free programmable timings
- Unlimited access to uncompressed sensor data
- Operation with external hardware (eg. strobes, light barriers)
- Optimized for parallel operation of multiple cameras
- Soft-trigger/ timestamps/ framecounter
- Storage of up to 9 user configurations (eg. format, exposure time) in the device
- Storage of user settings in the camera (24KB, eg. calibration data)
- Multiple standard formats plus one free definable ROI (region of interest)

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