

USB 3.0 single board camera mvBlueFOX3-3M

COMPACT CAMERA FOR EMBEDDED VISION

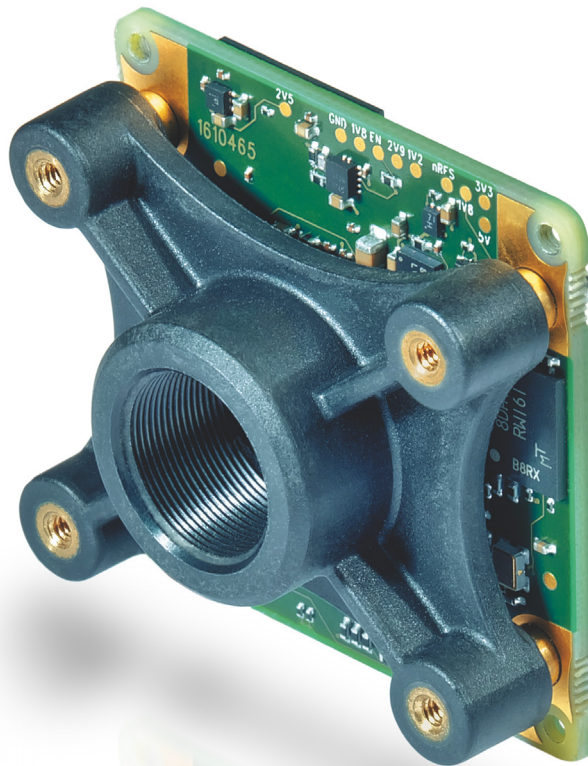
Single board camera with flexible interface concept enabling adaptations to various installation situations

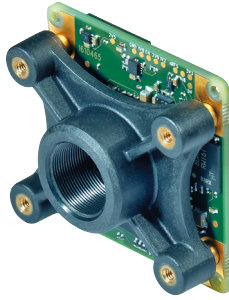
The USB3 Vision-compatible cameras have large image memory and a powerful FPGA for on-board pre-processing as well as digital interfaces for flexible integration into a wide variety of environments. The modular design makes it possible to connect the sensor board directly to customer-specific embedded solutions using a board-to-board connector.

In addition to an available standard interface board with USB and I/O plugs, customized OEM solutions can be created with a wide variety of plug orientations and configurations.

Features

- Compact form factor
- Reliable image transfer thanks to 256 MB image buffer
- FPGA based smart features reduce system load and simplify the overall system
- Easy integration into embedded systems with available USB interface
- Camera features independent of the used embedded system
- Same API as desktop Linux or Windows





USB 3.0 SINGLE BOARD CAMERA
mvBlueFOX3-3M

	BF3-3M-0064Z
Variant ¹	G / C
Resolution ²	3096 x 2080
MPixel	6.4
Max. frame rate ³	59 / 60 / 60 Hz
Binning ⁴	16 / 16 / 16 / 16
Shutter	Rolling Shutter / Global Reset
Sensor size	1/1.8
Pixel size	2.4 µm
Exposure time	10 µs...20 s
ADC resolution	12
Manufacturer	Sony
Sensor	IMX178

1 G = Gray, C = Color, GE = Gray & Infrared Enhanced

2 Values of the gray scale version

3 Streaming / Burst mode / Streaming with 2 x 2 Binning or Decimation (Horizontal x Vertical)

4 Max. Binning Horizontal / Max. Binning Vertical / Max. Decimation Horizontal /
Max. Decimation Vertical

Note: Not all combinations of binning and decimation values are possible.

Accessories

Lens holders

- S-Mount 13 mm

Interface boards

- I/O board, all I/Os and debug signals available
- USB3 Type C connector, right angled + 12-pin I/O
- USB3 Type Micro B connector, right angled + 12-pin I/O

Cables

- USB3 connecting cable Type C USB3 to USB3-A, Ø 6.2 mm,
with lock screws on both sides, for mvBlueFOX3-3M