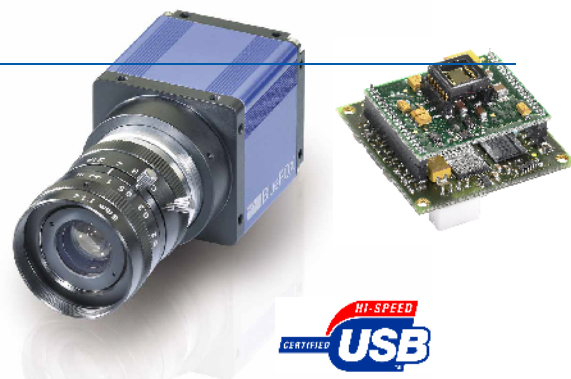


mvBlueFOX / -M

Technical Details



Sensors

| mvBlueFOX | | Resolution (H x V pixels) | Sensor size (optical) | Pixel size (µm) | Frame rate | Sensor technology | Readout type | ADC resolution / output in bits | Sensor |
|----------------|-----|------------------------------|--------------------------|--------------------|---------------|----------------------|--------------|--|-------------|
| -220 / -M120 | G/C | 640 x 480 | 1/4" | 5.6 x 5.6 | 60 | CCD | Global | 12 → 10 | Sony ICX098 |
| -220a / -M120a | G/C | 640 x 480 | 1/3" | 7.4 x 7.4 | 100 | CCD | Global | 12 → 10 | Sony ICX424 |
| -200w / -M100w | G/C | 752 x 480 | 1/3" | 6 x 6 | 93 | CMOS | Global | 10 → 10 / 8 | Aptina MT9V |
| -221 / -M121 | G/C | 1024 x 768 | 1/3" | 4.65 x 4.65 | 39 | CCD | Global | 12 → 10 | Sony ICX204 |
| -202a / -M102a | G | 1280 x 1024 | 1/2" | 5.2 x 5.2 | 25 | CMOS | Rolling | 10 → 10 / 8 | Aptina MT9M |
| -223 / -M123 | G/C | 1360 x 1024 | 1/2" | 4.65 x 4.65 | 20 | CCD | Global | 12 → 10 | Sony ICX267 |
| -224 / -M124 | G/C | 1600 x 1200 | 1/1.8" | 4.4 x 4.4 | 16 | CCD | Global | 12 → 10 | Sony ICX274 |
| -205 / -M105 | G/C | 2592 x 1944 | 1/2.5" | 2.2 x 2.2 | 5.8 | CMOS | Global Reset | 10 → 10 / 8 | Aptina MT9P |

Sample: **mvBlueFOX-200wG** means standard version with 752 x 480 CMOS gray scale sensor.
mvBlueFOX-M200wG means module version without housing and with 752 x 480 CMOS gray scale sensor.

Hardware Features

| | | | | |
|---|--|--------------|------------------|---------------------------|
| Gray scale / Color | Gray scale (G) / Color (C) | | | |
| Interface | USB 2.0 (up to 480 Mbit/s) / USB 1.1 compatible | | | |
| Image formats | Mono8, Mono10, BayerGR8, BayerGR10 | | | |
| Triggers | External, software based or free run | | | |
| Size w/o lens (W x H x L) Weight w/o lens | mvBlueFOX: 38.8 x 38.8 x 42.5 mm approx. 120 g mvBlueFOX-M: 38.8 x 38.8 x 34 mm (CCD with C-mount) approx. 17 g | | | |
| Permissible ambient temperature | Operation: 0 .. 45 °C / 30 to 80 % RH Storage: -20 .. 60 °C / 20 to 90 % RH | | | |
| Lens mounts | Back focus adjustable C/CS-mount lens holder / C-mount, CS-mount or optional S-mount | | | |
| Digital I/Os | mvBlueFOX: 2 opto-isolated inputs / 2 opto-isolated outputs mvBlueFOX-M: 4 LVTTTL inputs / 4 LVTTTL outputs | | | |
| Power supply | U _{USBPOWER_IN} I _{USBPOWER_IN} (@ 5V / 40 MHz) | Min. 4.75 | Typ. 5 280 | Max. 5.25 500 mA |
| Conformity | CE, FCC, RoHS | | | |
| Driver | mvIMPACT Acquire SDK | | | |
| Operating systems | Windows®, Linux® - 32 bit and 64 bit | | | |
| Special features | Micro-PLC, automatic gain / exposure control, binning, screw lock connectors | | | |

Dimensions Standard Version (in mm)

| front view | side view | back view |
|------------|-----------|-----------|
| | | |



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