



EagleZ stereo camera

EagleZ product datasheet

Essentials	
Interface	USB 2.0, mini-B connector
Sensor	2 × CMOS
Sensor size	4.50 × 2.88 mm (W × H), diagonal 5.35 mm
Sensor resolution	752 × 480
Trigger	Auto trigger with fixed frame rate
Frame rate	Max. 20 Hz
Optical parameters	
Stereo baseline	120 mm
Focal length	2.17 mm
Aperture	F/2.0
FOV single lens	raw: 102° × 74° (W × H) rectified: 73° × 70° (W × H)
Depth/color measurements	
Depth resolution*	max. 720 × 480 (*assuming 32 pixel wide stereo matching window)
Depth FOV	72° × 70° (W × H)
Depth accuracy	
object distance 1000 mm	± 50 mm
object distance 3000 mm	± 80 mm
Color format	Raw Bayer 8bit/pixel
Calibration	Precalibrated for lens rectification and stereo matching
Package	
Dimensions	165 × 45 × 40 mm
Weight	340 g
Mounting	¼" tripod mount, 4 × M4 mount
System integration	
OS	MS Windows XP or Vista
Recommended setup	USB 2.0 • RAM 1GB • CPU 2.0GHz, 1MB L2 cache • MS Visual C++ 9
SDK	Open-source C++ SDK (based on OpenCV library)



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