



The pmd[vision]<sup>®</sup> CamBoard pico flexx is a reference design specifically for the Infineon<sup>®</sup> 3D Image Sensor, which is a joint development of Infineon and **pmd**technologies, based on pmd's technology. It is a functional platform which facilitates the development of specific depth sensing systems and reduces innovation cycles. Form factor and power consumption enable integration into devices, e.g. All-in-One PCs, notebooks or tablets.

Parameter	CamBoard pico flexx
Dimensions <sup>1)</sup>	68mm x 17mm x 7.25 mm
ToF-Sensor	IRS1145C Infineon <sup>®</sup> 3D Image Sensor IC based on pmd intelligence
Measurement range	0.1 – 4 m
Framerate	5 fps, 10 fps, 25 fps, 35fps, 45fps (3D frames)
Acquisition time per frame	4.8 ms typ. @ 45 fps / 30 ms typ. @ 5 fps
Power consumption	USB2.0 compliant, average 300mW for IRS chip and illumination
Illumination	850 nm, VCSEL
Software	C/C++ SDK, Matlab-SDK
Resolution	224 x 171 (38k) px
Viewing angle (H x V)	62° x 45°
Interface	USB2.0 / USB3.0
Depth resolution <sup>2)</sup>	<= 1% of distance (0.5 – 4m @ 5fps) <= 2% of distance (0.1 – 1m @ 45fps)
Operating System	Win 7 / 8, Ubuntu 14.04, Mac OS X (>=10.9.2), ARM Android <sup>3)</sup>

1) incl. housing

2) for lambertian reflection of 75% without ambient light

3) tested on assorted devices