



The pmd[vision][®] CamBoard pico^S 71.19k is a reference design especially for the Infineon[®] 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 ^S 71.19k |
|--------------------------------|--|
| Dimensions | 89mm x 17mm x 6mm ¹⁾ |
| ToF-Sensor | IRS1010C Infineon [®] 3D Image Sensor IC based on pmd intelligence |
| Measurement range | 20 - 100 cm |
| Framerate | 45 fps (3D frames) |
| Acquisition time per frame | 4.9 ms typ. |
| Power consumption | 1W ²⁾ |
| Illumination | 850 nm, LED |
| Software | C/C++ SDK, Matlab-SDK and gesture detection middleware available |
| Resolution | 160 x 120 (19k) px |
| Viewing angle (H x V) | 82° x 66° |
| Interface | USB2.0 / USB3.0 |
| Depth resolution ³⁾ | < 3 mm @ 50 cm < 6 mm @ 100 cm |
| Operating System | Win 7 / 8, Ubuntu 12.04, Mac OS X (>=10.9.2) |

1) incl. housing

2) typical power consumption: 1W (20fps), 2W (45fps)

3) for lambertian reflection of 75%, 4.9ms acquisition time per frame