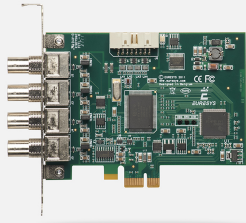


# Piccolo Pro 2 PCIe

PCIe video capture card with four BNC connectors for standard PAL/NTSC cameras



## At a Glance

- 4x BNC connectors on the bracket
- PCIe x1 bus
- One video decoder, 25/30 images per second (50/60 fields per second)
- Fast switching between up to 4 cameras
- PCI and PCIe versions available

## Benefits

**Robust, reliable, dependable video capture card**

**Take advantage of the lowest-cost industrial cameras available on the market**

**Windows and Linux drivers available**

## Applications

### **MACHINE VISION FOR THE GENERAL MANUFACTURING INDUSTRIES**

**Low cost image acquisition from industrial analog cameras for inspection machines**

Take advantage of the lowest-cost industrial cameras available on the market with the Domino and Piccolo series cards.

### **LIFE SCIENCES & MEDICAL**

Endoscopy applications

**Standard and high-definition image acquisition**

Dental applications

Video-guided surgery applications

### **MICROSCOPY**

**High-definition image acquisition**

Offline inspection stations

Laboratory and measuring microscopes

## Specifications

### Mechanical

Form Factor	PCI Express card
Format	Standard profile, half length, 1-lane PCI Express card
Dimensions	L 115.00 mm x H 84.85 mm

### Host bus

Standard	PCI Express 1.0
Link width	1 lane
Link speed	2.5 GT/s (PCIe 1.0)
DMA	32-bit
Peak delivery bandwidth	256 MB/s
Power consumption	Max. 2.8 W (900 mA @ +3.3 V)

### Camera / video inputs

Interface standard(s)	NTSC-M, PAL-B/G, RS-170, CCIR
Connectors	• VIDEO 1 to VIDEO 4: BNC female connectors on the bracket for composite video inputs
Termination resistor	Selectable using jumpers on the PCB
Native resolution	Square pixels, broadcast and custom resolutions
Frame rate	Up to 25/30 images per second, 50/60 fields per second
Number of cameras	4
Number of cameras (at full frame rate)	1
Line-scan cameras supported	No

### Video delivery

Raw video format(s)	Planar, packed, YUV and RGB color formats
Deliverable video resolution (SD)	Frame, field, CIF, QCIF and custom image formats

### General Purpose Inputs and Outputs

Number of lines	13 I/O lines (IO)
Connectors	DIGITAL I/O: 16-pin two-row 0.1" shrouded header on the PCB
Usage	General purpose IO
Electrical specifications	IO: TTL-compatible I/O lines

### Software

Host PC Operating System	<ul style="list-style-type: none"><li>• Microsoft Windows 10, 8.1, 8, 7, XP</li><li>• Microsoft Windows Server 2012 R2, 2012, 2008 R2</li><li>• Linux Kernel versions from 2.6 up to 3.13, compatible with a wide range of distributions</li><li>• 32- and 64-bit versions</li></ul>
APIs	<ul style="list-style-type: none"><li>• MultiCam 32-bit and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers</li><li>• DirectShow filters (Windows only) for Microsoft Visual C++ compilers (32-bit only)</li></ul>

## Environmental conditions

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Operating ambient air temperature 0 to +50 °C / +32 to +122 °F

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Operating ambient air humidity 10 to 90% RH non-condensing

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Storage ambient air temperature -20 to +70 °C / -4 to +158 °F

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Storage ambient air humidity 10 to 90% RH non-condensing

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## Certifications

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Electromagnetic - EMC standards

- The European Council EMC Directive 2004/108/EC
- The Unites States FCC rule 47 CFR 15

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EMC - Emission

- EN 55022:2010 Class B
- FCC 47 Part 15 Class B

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EMC - Immunity

- EN 55024:2010 Class B
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6

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Flammability PCB compliant with UL 94 V-0

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RoHS Compliant with the European Union Directive 2011/65/EU (ROHS2)

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REACH Compliant with the European Union Regulation No 1907/2006

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WEEE Must be disposed of separately from normal household waste and must be recycled according to local regulations

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## Ordering Information

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Product code - Description 1687 - PicoLo Pro 2 PCIe

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