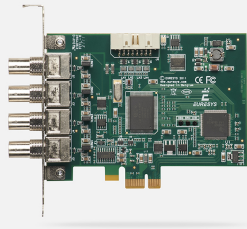




Piccolo Pro 2 PCIe

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 drivers available

Applications

Machine Vision for the General Manufacturing Industries

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

Life Sciences & Medical

- Standard and high-definition image acquisition for endoscopy applications
- Standard and high-definition image acquisition for dental applications

Microscopy

- High-definition image acquisition for offline inspection stations
- High-definition image acquisition for 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 | <ul style="list-style-type: none">• 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">• Microsoft Windows 10, 8.1, 7 for x86 (32-bit) and x86-64 (64-bit) processor architectures• Linux for x86 (32-bit) and x86-64 (64-bit) processor architectures Refer to release notes for details |
| APIs | <ul style="list-style-type: none">• MultiCam 32- and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers• DirectShow 32- and 64-bit filters (Windows only), for Microsoft Visual C++ compilers |

Environmental conditions

| | |
|-----------------------------------|-------------------------------|
| Operating ambient air temperature | 0 to +50 °C / +32 to +122 °F |
| Operating ambient air humidity | 10 to 90% RH non-condensing |
| Storage ambient air temperature | -20 to +70 °C / -4 to +158 °F |
| Storage ambient air humidity | 10 to 90% RH non-condensing |

Certifications

| | |
|---------------------------------|---|
| Electromagnetic - EMC standards | <ul style="list-style-type: none">• European Council EMC Directive 2004/108/EC• United States FCC rule 47 CFR 15 |
| EMC - Emission | <ul style="list-style-type: none">• EN 55022:2010 Class B• FCC 47 Part 15 Class B |

| | |
|----------------|---|
| EMC - Immunity | <ul style="list-style-type: none"> • 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 |
|----------------|---|

| | |
|------------------|--|
| KC Certification | Korean Radio Waves Act, Article 58-2, Clause 3 |
| Flammability | PCB compliant with UL 94 V-0 |
| RoHS | European Union Directive 2011/65/EU (ROHS2) |
| REACH | European Union Regulation 1907/2006 |
| WEEE | Must be disposed of separately from normal household waste and must be recycled according to local regulations |

Ordering Information

| | |
|----------------------------|----------------------------|
| Product code - Description | • 1687 - Picolo Pro 2 PCIe |
|----------------------------|----------------------------|



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