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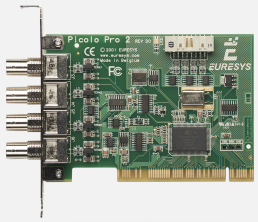
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euresys
Empowering Computer Vision

Do not use for new design

Picolo Pro 2

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



At a Glance

- 4x BNC connectors on the bracket
- 32-bit 33 MHz PCI 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 Electronic Manufacturing Industry

- High speed image acquisition for AOI, 3D SPI, 3D lead/ball inspection machines.
- Very high resolution line-scan image acquisition for Flat Panel Display inspection and solar cell inspection

Machine Vision for the General Manufacturing Industries

- High frame rate image acquisition for inspection machines
- Line-scan image acquisition for surface inspection machines
- Line-scan image acquisition for textile inspection
- Low cost image acquisition from industrial analog cameras for inspection machines

Machine Vision for the Printing Industry

- High speed line-scan image acquisition for printing inspection machines

Life Sciences & Medical

- Standard and high-definition image acquisition for endoscopy applications
- Standard and high-definition image acquisition for dental applications
- Standard and high-definition image acquisition for video-guided surgery applications

Microscopy

- High-definition image acquisition for offline inspection stations
- High-definition image acquisition for laboratory and measuring microscopes

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Video Acquisition and Recording

- High-frame-rate video acquisition for motion analysis and recording

Specifications

Mechanical

Format	Standard profile, half-length, 32-bit Conventional PCI card
Dimensions	L 119.91 mm x H 84.83 mm

Host bus

Standard	PCI 32-bit, 33 MHz
DMA	32-bit
Power consumption	Max. 1.7 W (240 mA @ +5V, 10 mA @ +12V, 30 mA @ -12V)

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

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	• 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	• 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	• European Council EMC Directive 2004/108/EC • United States FCC rule 47 CFR 15
EMC - Emission	• EN 55022:2010 Class B • FCC 47 Part 15 Class B
EMC - Immunity	• EN 55024:2010 Class B • EN 61000-4-2 • EN 61000-4-3 • 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 2015/863 (ROHS3)
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	• 1157 - Picolo Pro 2

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