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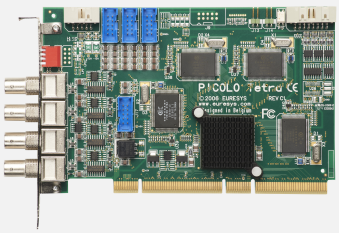
Find the *Euresys Picolo Tetra* at our website: ***Click HERE***

euresys
Empowering Computer Vision

Do not use for new design

Picolo Tetra

PCI video capture card with four BNC connectors for up to 16 standard PAL/NTSC cameras



At a Glance

- 4x BNC connectors on the bracket, expandable to 16 with three [1203] VEB modules (sold separately)
- PCI 64-bit 66 MHz bus
- Four video decoders, 100/120 images per second (200/240 fields per second)
- Real-time acquisition from 4 cameras, fast switching between up to 16 cameras

Benefits

Video input configurations

- Four cameras can be connected using the BNC connectors on the bracket: Acquisition at30 (NTSC) or 25 (PAL) frames per second per camera
- Eight cameras can be connected using the BNC connectors on the bracket and one [1203] VEB: Acquisition at 6.7 (NTSC) or 5.6 (PAL) frames per second per camera
- Twelve cameras can be connected using the BNC connectors on the bracket and two [1203] VEBs: Acquisition at 4.6 (NTSC) or 3.8 (PAL) frames per second per camera
- Sixteen cameras can be connected using the BNC connectors on the bracket and three [1203] VEBs: Acquisition at 3.5 (NTSC) or 2.9 (PAL) frames per second per camera

Windows and Linux 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

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Specifications

Mechanical

Format	Standard profile, half-length, 64-bit Conventional PCI card
Dimensions	L 168 mm x H 107 mm

Host bus

Standard	PCI 64-bit, 66 MHz, 3.3 V and 5 V signaling
DMA	32-bit
Power consumption	Max. 8 W (1.3 A @ +5V, 120 mA @ +12V, 5 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 • VEB LINK 0 to VEB LINK 3: 10-pin shrouded header connectors on the PCB for VEB modules
Termination resistor	Selectable using switches on the bracket
Native resolution	Square pixels, broadcast and custom resolutions
Frame rate	• Up to 25/30 images per second, 50/60 fields per second per input • Total 100/120 images per second with four cameras
Number of cameras	16
Number of cameras (at full frame rate)	4

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
Watchdog	Yes

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
EMC - Emission	• EN 55022:2010 Class B
EMC - Immunity	• EN 55024:2010 Class B
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	• 1303 - Picolo Tetra

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