ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

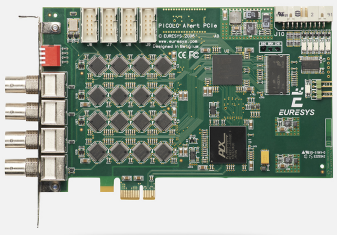
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

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

euresys
Empowering Computer Vision

Picolo Alert PCIe

PCIe 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)
- PCIe x1 bus
- Sixteen shared 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
- Independently-programmable frame rate and acquisition parameters for each video input

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
- Sixteen cameras can be connected using the BNC connectors on the bracket and three [1203] VEBs: Acquisition at 7.5 (NTSC) or 6.25 (PAL) frames per second per camera

Windows and Linux drivers available

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

ITS (Intelligent Transportation System) & Traffic management

- Video acquisition from multiple cameras

© EURESYS S.A. Subject to change without notice

Specifications

Mechanical

Format	Standard profile, half length, 1-lane PCI Express card
Dimensions	L 167.65 mm x H 106.65 mm L 6.6 in x H 4.38 in

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
Effective (sustained) delivery bandwidth	180 MB/s (Host PC motherboard dependent)
Power consumption	Max. 9.5 W (2.9 A @ +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 • 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 up to 16 cameras
Number of cameras	16
Number of cameras (at full frame rate)	4

Video delivery

Raw video format(s)	• Packed RGB color formats: RGB15, RGB16, RGB24, RGB32 • Planar RGB color formats: RGB24PL • Packed YUV color formats: YUV411, YUV422, YUV444 • Planar YUV color formats: YUV411PL, YUV422PL, YUV444PL, YUV411PL, YUV422PL • Monochrome formats: Y8
Deliverable video resolution (SD)	Frame, field, CIF, QCIF and custom image formats

Area-scan camera control

Trigger	• Hardware trigger for up to four cameras • With configurable noise removal filter and optional delay
Strobe	• Hardware strobe signal for up to four cameras • With programmable position and duration

General Purpose Inputs and Outputs

Number of lines	9 I/O lines: • 4 contact closure inputs (IN) • 5 solid-state relay outputs (OUT)

Connectors	I/O: 20-pin dual-row 0.1" shrouded header on the PCB
Usage	General purpose IO
Electrical specifications	• IN: Polarity-free inputs, compatible with TTL, 12V and 24V signals, opto-couplers, relays and switches • OUT: Opto-isolated potential-free and polarity-free solid-state outputs, compatible with signals up to 30V, with 4 µs fall time, isolated up to 500V
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 • 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 61000-4-5 • 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 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	• 1641 - Picolo Alert PCIe
Optional accessories	1203 - VEB

EMEA

Euresys SA

Liège Science Park - Avenue du Pré Aily, 14
4031 Angleur - Belgium

Phone: +32 4 367 72 88
Email: sales.europe@euresys.com

EMEA

Sensor to Image GmbH

Lechtorstrasse 20 -
86956 Schongau - Germany

Phone: +49 8861 2369 0
Email: sales.europe@euresys.com

AMERICA

Euresys Inc.

27126-B Paseo Espada - Suite 704
San Juan Capistrano, CA 92675 - United States

Phone: +1 949 743 0612
Email: sales.americas@euresys.com

ASIA

Euresys Pte. Ltd.

750A Chai Chee Road - #07-15 Viva Business Park
Singapore 469001 - Singapore

Phone: +65 6445 4800
Email: sales.asia@euresys.com

CHINA

Euresys Shanghai Liaison Office

Unit 802, Tower B, Greenland The Center - No.500 Yunjin Road, Xuhui District
200232 Shanghai - China
Euresys上海联络处
上海市徐汇区云锦路500号绿地汇中心B座802室
200232

Phone: +86 21 33686220
Email: sales.china@euresys.com

JAPAN

Euresys Japan K.K.

Expert Office Shinyokohama - Nisso Dai 18 Building, Shinyokohama 3-7-18, Kohoku
Yokohama 222-0033 - Japan
〒222−0033
神奈川県横浜市港北区新横浜3−7−18 日総第18ビル　エキスパートオフィス新横浜

Phone: +81 45 594 7259
Email: sales.japan@euresys.com

More at www.euresys.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP