

# EureCard PICOLO Tetra

*Real-time video capture board for standard cameras*



Picolo Tetra is a new **cost effective PCI video capture board** dedicated for **multiple cameras video surveillance applications**. This new Picolo board acquires **four real-time image sequences in parallel**. Picolo Tetra supports standard composite video acquisition in color (**PAL, NTSC**) or in monochrome format (**CCIR, EIA**).

Thanks to a **high-quality hardware scaler**, the Picolo series acquire images at any format. Arbitrary cropping to a region of interest is built-in. Picolo generates bitmaps in **all popular color formats** such as RGB, YUV, planar or packed.

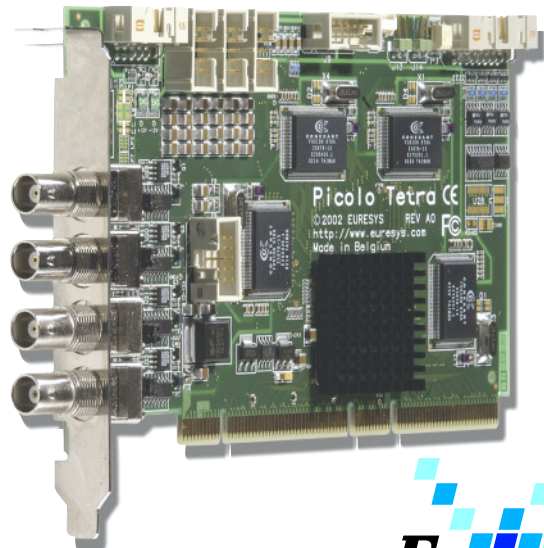
The Picolo series video capture boards are designed to **drastically simplify the design of video surveillance applications**. System integrators benefit from **robust and easy-to-use standard connectors**. **TTL I/O lines** are provided for system integration. In addition, Picolo Tetra is compatible with the **MIO module**, enabling the system integrator to implement isolated inputs and outputs.

Picolo boards come with different tools. The **MultiCam driver** makes easier the management of video surveillance applications. The boards are also compatible with eVision, the Euresys image analysis tools. eVision offers C++ and ActiveX tools to read and record sequences of images using **AVI files**.

- **Four color video digitizers operating in parallel**
- **240 fps**
- **64-bit, 66 MHz PCI bus**
- **Color PAL / NTSC, monochrome CCIR / EIA**
- **4 buffered video outputs**
- **MIO, I/O module compatible**

**PICOLO Tetra**  
Video capture board

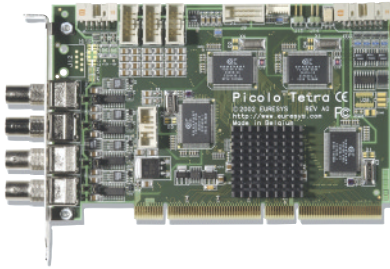
**NEW**



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Excellence  
in vision



## PICOLO Tetra

NEW

PICOLO Tetra is a PCI frame grabber capturing in real time **four video standard analog streams simultaneously**. PICOLO Tetra is featured with **I/O connectivity**. A **modular** approach allows to **add video input, video output** as well as **isolated input and output digital lines**.

**Four simultaneous video digitizers.** PICOLO Tetra is able to simultaneously digitize **four video signals** and to send the resulting digital data in **real time** into the PC memory through the PCI bus.

**64-bit, 66 MHz PCI bus.** The PICOLO Tetra bus capability is 64 bits at 66 MHz making this frame grabber compatible with the **most recent PC architectures**. This wide PCI bus supports a peak data transfer rate of **528 Mbytes/s**. PICOLO Tetra is compatible with conventional PCI architecture, including **32 bits and 33 MHz**. Signaling voltage compliance is **3V or 5V** for maximum versatility.

**On-board TTL I/O lines.** TTL I/O lines are provided for easing system integration. An internal 16-pin header connector provides **13 general purpose input / output TTL lines** usable for triggering image capture and interfacing to alarm system.

**Video image formats.** PICOLO Tetra supports the acquisition of **full resolution images** or **any smaller-size format**, such as **SIF**. Acquisition of **full frame** (two fields) or **single field** images is selectable. Individual fields or frames as well as video sequences are captured directly to the PC memory. PICOLO Tetra ensures an **excellent fidelity** of the grabbed bitmap in respect of the original video signal.

**Bitmap image formats.** Before storing the acquired images into the destination memory buffer, a **pixel format conversion takes place in real-time**. Numerous color or monochrome formats can be chosen.

**PACKED:** RGB32, RGB24, RGB16, RGB15, YCrCb 4:2:2, YCrCb 4:1:1, Y8

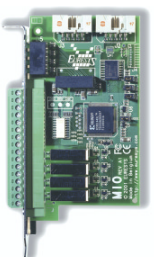
**PLANAR:** YCrCb 4:2:2, YCrCb 4:1:1, YCrCb 4:2:0, YCrCb 4:2:0, YCrCb 4:1:0, YCbCr 4:2:0, YCbCr 4:1:0

**Watchdog.** PICOLO Tetra offers a hardware watchdog to **monitor the software application** and to **restart the PC** after an anomalous inactivity time-out. This ensures a **reliable operation** of unattended systems.

**Expandable architecture: Video input modules.** PICOLO Tetra is designed to receive up to 3 video input modules fitted each with four BNC connectors leading to a maximum configuration of **16 connected cameras**.

**Video output module.** **Four buffered video outputs** are offered on an **additional four-BNC module** as an alternative to loop-through connecting the video sources. These video signals represent the image applied to each internal video color digitizer.

**MIO compatible**



## MIO I/O expansion module

**4 input and 4 output isolated lines**

**Alarm signaling feature**

**Removable screw-terminal block**

**Monitoring LEDs**

MIO is an element of the PICOLO modular architecture. It brings **flexible isolated logic inputs and outputs**.

**4 input and 4 output isolated lines.** MIO offers **four opto-isolated input** and **four reed relay output** lines. Each input line is interrupt-capable, with independent edge sensitivity control. The status of the lines is monitored by eight dedicated **LEDs**.

**Alarm signaling feature.** The first **relay** output can be configured as an **alarm signal**.

**Removable screw-terminal block.** Each line is available as a pair of electrical wires on the sixteen-terminal block.

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