



# FAST ANALOG PCMCIA VIDEO CAPTURE CARD



VCE-PRO  
VCE-PRO-F  
VCE-PRO-C

## Features

- PCMCIA Cardbus interface
- Small form factor PCMCIA Type II
- Intelligent scatter/gather DMA for fast, efficient use of PCI bus bandwidth
- On-board memory for fast image acquisition
- NTSC/PAL/SECAM/RS170 compliant

With Imperx **PCMCIA frame grabbers**, applications and uses of portable and mobile vision systems are becoming a reality. The **VCE-PRO** supports any standard analog video interface and provides the functionality, performance and versatility required by today's most demanding vision systems. The cards feature plug-n-play operation with hot insertion/removal and include intelligent scatter/gather DMA engines with a generous supply of on-board memory. A full software suite including drivers and application is provided. SDK available.

## Applications

- Industrial
  - Silicon wafer and PCB inspection
  - Machine vision
  - Document scanning
- Medical
  - Ultrasound
  - X-Ray, CT and MRI
- Security
  - Police in-car surveillance
  - Biometric identification
- Military
  - Aerial mapping/survey
  - Battlefield imaging
  - UAV, Robotic vision

MOBILITY...CONVENIENCE...PERFORMANCE...  
**PCMCIA FRAME GRABBERS**

# Specifications for VCE-PRO

## Features

PCMCIA Cardbus 8.0 compliant  
32-bit bus operating at 33 MHz  
Intelligent scatter/gather DMA  
256 Mbits onboard memory (two banks)  
Plug-and-play with hot insertion and removal  
Fast video capture – up to 30 fps  
Selectable window sizes  
Adjustable brightness, contrast, hue and saturation  
Captures single, multiple frames or AVI clips  
Normal or delay capture  
Date, time and text overlay  
BMP or adjustable JPEG file format  
Image viewer with DVR Controls  
External trigger input  
16-bit YCrCb (4:2:2) digital output

## Video Source

2 Composite or 2 S Video inputs  
NTSC, PAL (B,D,G,H,I,M,N), SECAM and RS170  
Auto NTSC/PAL format detection  
Automatic gain control

## Environmental

Operating temperature: 0°C to 65°C  
Relative humidity: 90% non-condensing

## Mechanical

PCMCIA Type II card  
VCE-PRO – 4.5" x 2.1" x 0.2", (115 x 54 x 5) mm  
VCE-PRO-F – 3.3" x 2.1" x 0.2", (85 x 54 x 5) mm  
Weight 1.25 oz, (35 g)

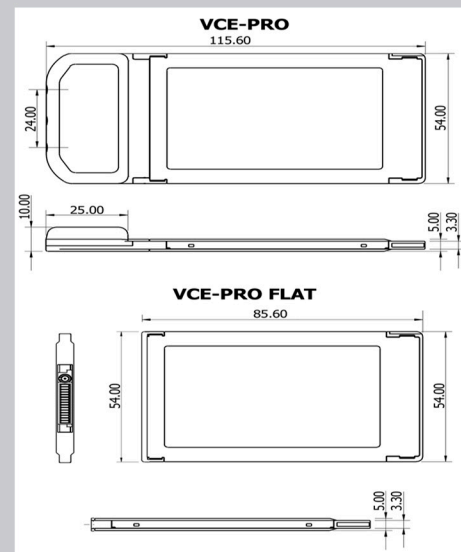
## Description

The VCE-PRO is a professional, fast, state of the art PCMCIA CardBus Video Capture Card, allowing users to display, capture, store, and preview full motion video on their notebook computers. The VCE-PRO is capable of capturing single or multiple frames, and standard AVI clips from any NTSC, PAL, SECAM or RS170 video source. A built in capture delay function enables users to program their card to record sequences of events at later dates and times. An external triggering option allows for easy implementation of the card into demanding machine vision environments. Each captured frame can be stamped with a user message along with the date and time of capture. A specially designed image viewer gives users the flexibility to view, scroll or step through the recorded images.

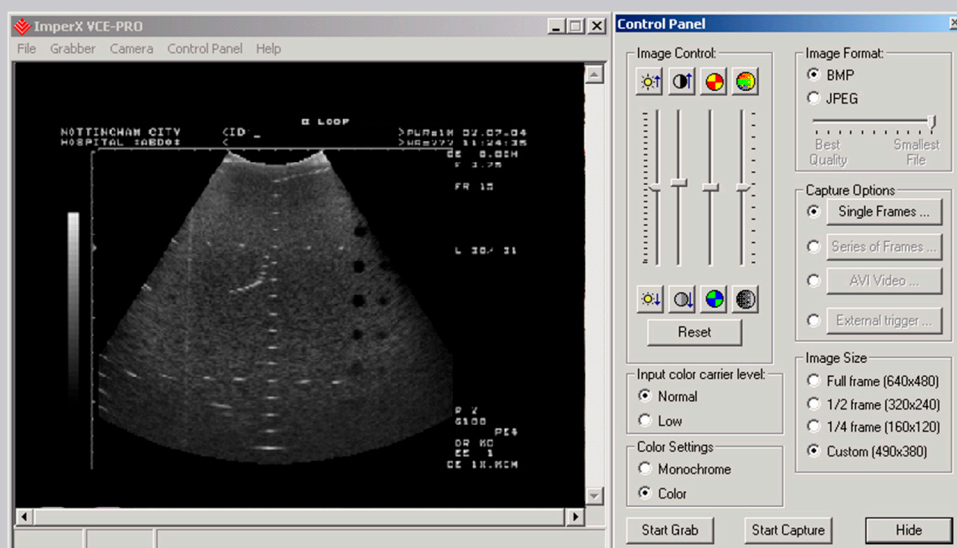
## Power Requirements

- 3.3V DC +/- 5%
- 160 mA steady, 350 mA inrush
- 0.5W constant power

## Mechanical Dimensions



## Software



- Windows 2000 and Windows XP drivers
- Twain, WDM, DirectX and LabView drivers
- DLL based SDK (C++, VB examples)
- Image viewer (GUI) application

## Ordering Information

Ordering Standard: **VCE-PRO**

Ordering Flat: **VCE-PRO-F**

Ordering Custom: **VCE-PRO-C1BM010**

| Number of Inputs                   |             |
|------------------------------------|-------------|
| 1 - Single Video Input (composite) |             |
| 2 - Dual Video Input (composite)   |             |
| 3 - Single Video Input and Trigger |             |
| Connector Type                     |             |
| B - BNC                            | S - SMA     |
| R - RCA                            | V - S Video |

| Cable Length       |  |
|--------------------|--|
| 010 - 10 cm        |  |
| 050 - 50 cm        |  |
| 100 - 100 cm       |  |
| xxx - User Defined |  |
| Connector Gender   |  |
| M - Male           |  |
| F - Female         |  |

For specific details and ordering information, consult the product user's manual or contact us at [sales@imperx.com](mailto:sales@imperx.com).

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