

## 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)

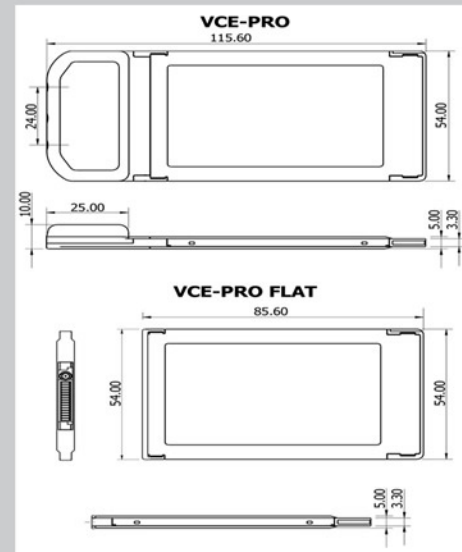
## Description

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.

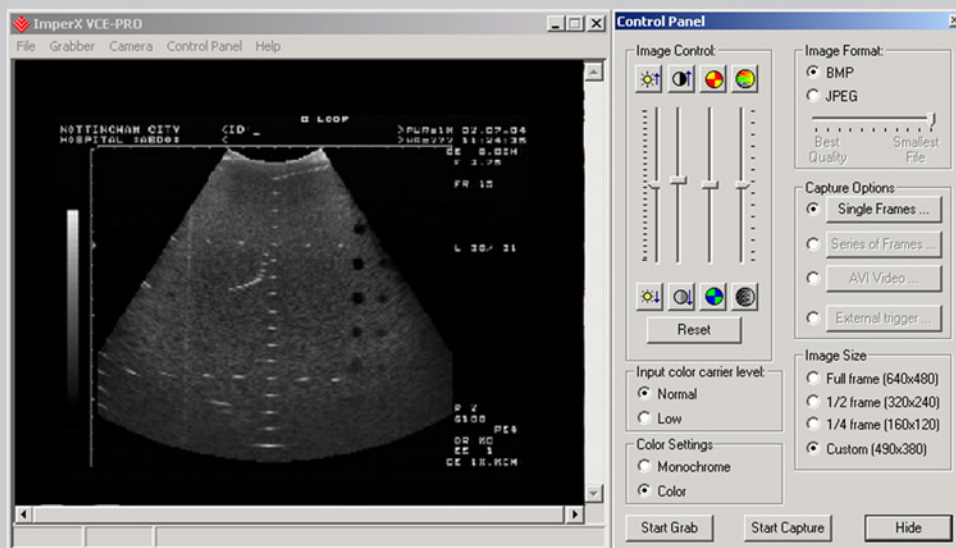
## Power Requirements

- 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	Cable Length
1 - Single Video Input (composite)	010 - 10 cm
2 - Dual Video Input (composite)	050 - 50 cm
3 - Single Video Input and Trigger	100 - 100 cm
	xxx - User Defined
Connector Type	Connector Gender
B - BNC	S - SMA
R - RCA	V - S Video
	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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