



Analog ExpressCard/34 Video Capture Card



VCE Express - Video Capture Card (VCE-ANEX03)

*Video acquisition from a single NTSC, PAL, SECAM or RS170 camera
Auto NTSC / PAL format detection and automatic gain control are included
Supports an external trigger input
Can switch between two SVideo or composite inputs*

IMPERX VCE Express/34 is a professional, state of the art video capture card that allows users to view and store in real time images from any standard analog video source onto laptop computers. The VCE Express is capable of capturing single or multiple frames, and standard AVI clips from NTSC, PAL, RS170 or SECAM compliant video sources. An external triggering option allows users to qualify image capture based on external events. Each captured frame can be stamped with a user message along with the date and time of capture. A specially designed image viewer provides the flexibility to view, scroll or step through the recorded images. IMPERX VCE Express/34 features a flow-through pipelined architecture with an intelligent scatter/gather DMA engine providing over 235 Mbytes(s) of throughput. A full software suite, including drivers, an application program and SDK, is provided with the card.

Features

- Supports NTSC, PAL, RS170, or SECAM video
- Saves 16 bit YCrCb 4:2:2, 4:4:4 or RGB24 data
- External trigger input (TTL)
- ExpressCard/34 compliant providing 2.5 Gbps of bandwidth
- Intelligent scatter/gather DMA for fast, efficient use of ExpressCard bandwidth and system memory
- Flow-through pipeline architecture for low latency
- Many advanced features including histograms, RGB gain/offset with auto-white balance, hex pixel dump, look up tables, Gamma correction, etc.
- Plug-and-play operation with hot insertion/removal



APPLICATIONS

Aerial Mapping
Aerial Robots: Military, Police
Aerospace
Agriculture
Automation

Automotive
Biometrics
Broadcasting
Printed Circuit Board (PCB)
Electronics
Energy/Solar/Wind Power

Flat Panel Inspection
Food/Beverage
Homeland Security
Law Enforcement
Intelligent Traffic Systems (ITS)
Medical Devices/Imaging

Metrology
Microscopy
Military/Defense
Pharmaceuticals
Particle Image Velocimetry (PIV)
Radiology

Robotics
Scientific Apps
Surveillance
Semiconductors
Transportation
Textile/Apparel

VCE ExpressCard/34 - VCE-ANEX03 Specifications

Features

- NTSC, PAL, RS170, or SECAM real time video acquisition
- ExpressCard/34 compliant
- PCIe x1 lane providing 2.5 Gbps of bandwidth
- Intelligent scatter/gather DMA
- Flow-through pipeline architecture
- Dynamic buffer allocation
- Plug-and-play with hot insertion and removal
- Selectable window sizes
- Adjustable RGB brightness and auto white balance
- Programmable RGB look up tables and Gamma correction
- Captures single, multiple frames or AVI clips
- Normal or delay capture
- RAW, BMP, TIFF or adjustable JPEG file format
- 16 bit YCrCb 4:2:2, 4:4:4 or 24 bit RGB formatting
- Advanced features including histograms & hex pixel dump
- Image viewer with DVR controls

Software

Application program: Full featured, intuitive, easy to use GUI
 Drivers: Win 7/XP/Vista 32 bit and 64 bit, DirectX, Labview, Matlab, Halcon
 SDK: C/C++, COM, .NET, ActiveX – all with sample source code

Video Source

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

Power

- 3.3V DC +/-5%, 500 mA steady
- 1.65W constant power

Environmental

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

Regulatory

- FCC 15 part B, CE, RoHS

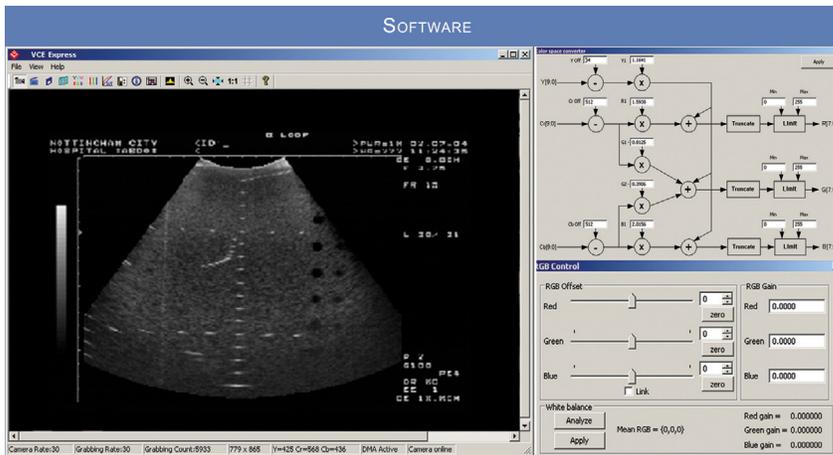
Mechanical

- ExpressCard/34 form factor
- 4.28" x 1.3" x 0.7" (108 x 34 x 18mm)
- Weight 1.27 oz., (35.9g)

Order: VCE-ANEX03

For specific details and ordering information, consult the VCE Express user's manual or contact IMPERX at sales@imperx.com.

Software



Mechanical Dimensions

