



## Analog ExpressCard/54 (Custom) for Laptops

### VCE-ANEX02



Video acquisition from a single NTSC, PAL, SECAM or RS170 camera  
 Can switch between two S-Video or composite inputs  
 Auto NTSC / PAL format detection and automatic gain control are included  
**User specified cable lengths and terminating connectors**

#### Features

- ExpressCard/54 compliant providing 2.5 Gbps of bandwidth
- NTSC, PAL, RS170 or SECAM real time video acquisition
- 16 bit YCrCb 4:2:2, 4:4:4 or 24 bit RGB formatting
- Intelligent scatter/gather DMA for fast, efficient use of ExpressCard bandwidth and system memory
- Flow-through pipelined architecture for low latency
- External trigger input (TTL)
- On board color space conversion
- Dynamic buffer allocation
- 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
- Plug-and-play operation with hot insertion/removal
- RAW, BMP, TIFF or adjustable JPEG file format
- Image viewer with DVR controls
- Advanced features include histograms, RGB gain/offset with auto-white balance, hex pixel dump, look up tables, gamma correction

#### Software

Application program: Full featured, intuitive, easy to use GUI  
 Drivers: Win XP/2000/Vista/7/8, DirectX, Halcon, LabVIEW, Matlab  
 SDK: C/C++, COM, .NET, ActiveX - all with sample source code

#### Video Source

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

#### Power

User specified cable lengths and terminating connectors  
 3.3V DC +/-5%, 500 mA steady  
 1.65W constant power

#### Environmental

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

#### MTBF

>330,000 hours @ 50°C

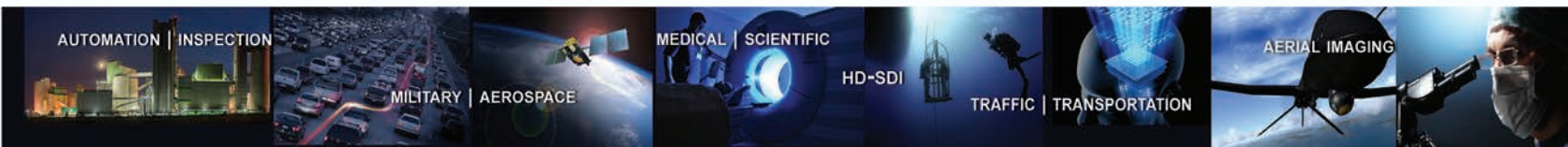
#### Regulatory

FCC part 15, Class B, CE, RoHS

#### Mechanical

Express Card/54 form factor  
 Weight 1.91 oz., 47g

**IMPERX VCE ExpressCard/54 Custom** is a state of the art video capture card that enables users to view and store images in real time from any standard analog video source onto laptop computers. The VCE ExpressCard/54 Custom 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/54 Custom features a flow-through pipelined architecture with an intelligent scatter/gather DMA engine providing over 235 Mbytes per second of throughput. A full software suite, including drivers, an application program and SDK, is provided with the card.





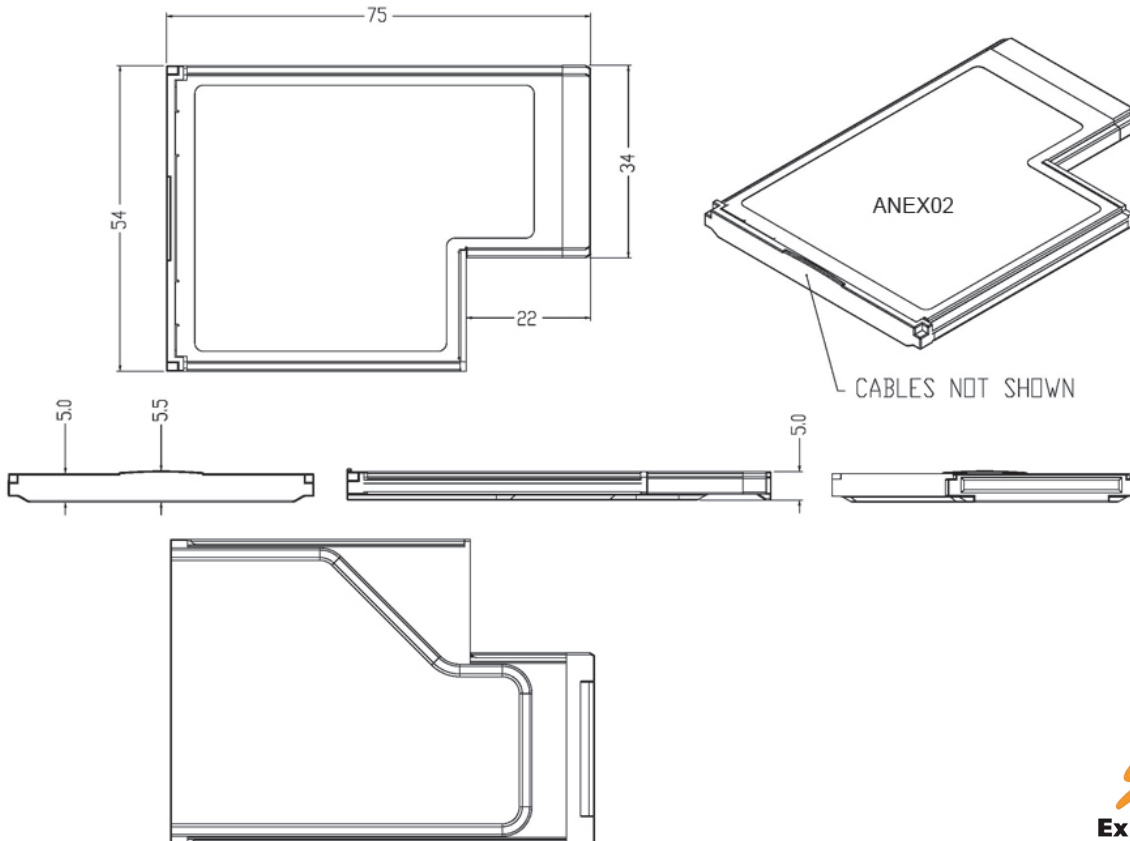
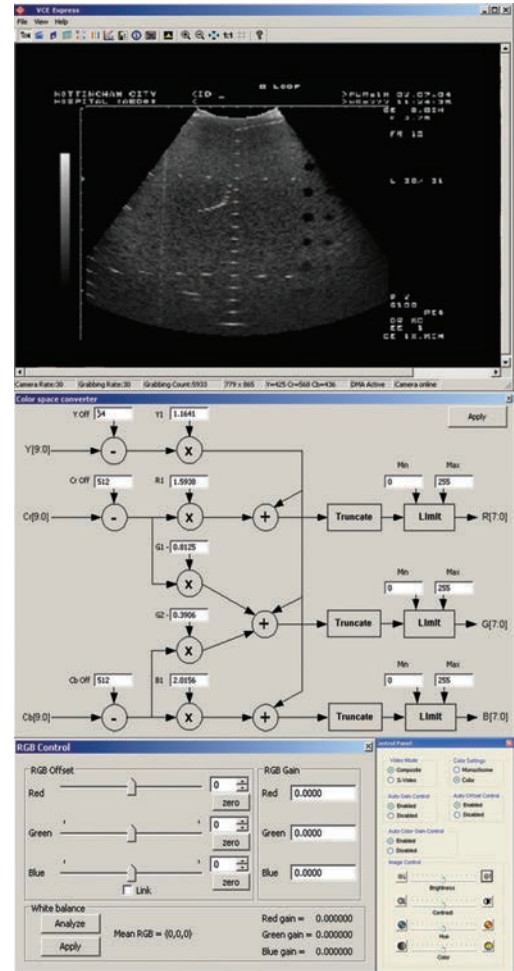
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**Order: VCE-ANEX02-Custom**

Custom Ordering Options

- Number of inputs: Up to two composite inputs and/or up to two S-Video inputs  
One trigger input
- Cable length: 10cm, 50cm, 100cm, and user defined
- Connector type: BNC(B), RCA(R), SMA(S), S-Video(V)
- Connector gender: Male or female

For specific details and ordering information, consult the VCE Express user's manual or contact SAIS at [contact@sacasa.info](mailto:contact@sacasa.info)



VCE-ANEX02, Rev 2