FRAME GRABBERS

SPECIFICATIONS

IMPERX

CAMERAS
FRAME GRABBERS
IMAGING SOLUTIONS

Analog ExpressCard/34 for Laptops

VCE-ANEX03

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

IMPERX VCE ExpressCard/34 is a 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/34 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 per second of throughput. A full software suite, including drivers, an application program and SDK, is provided with the card.

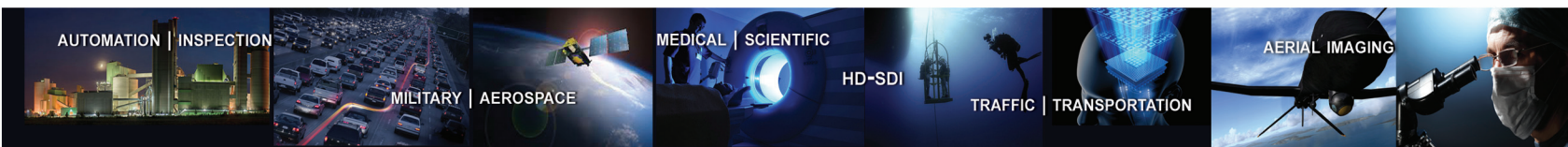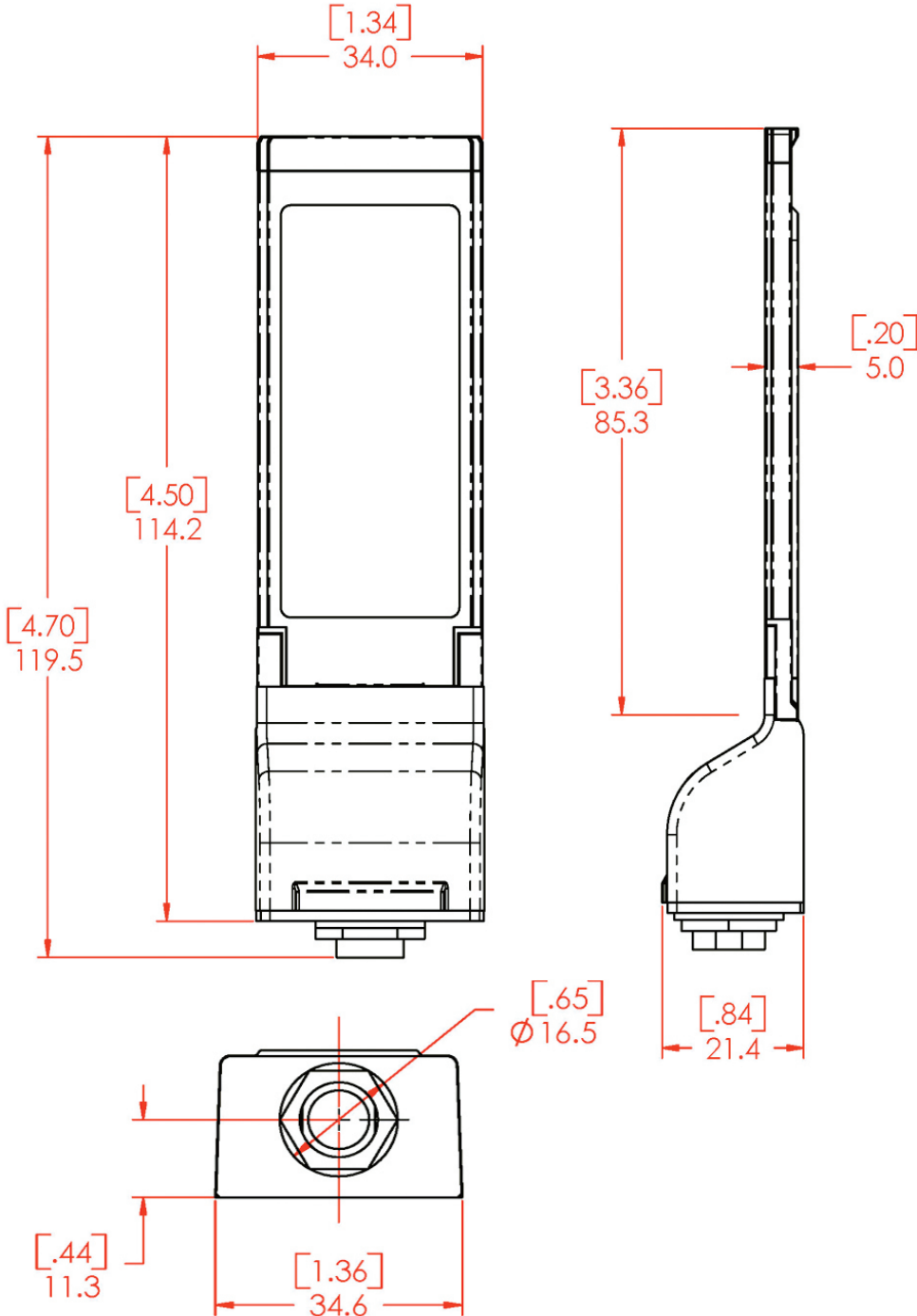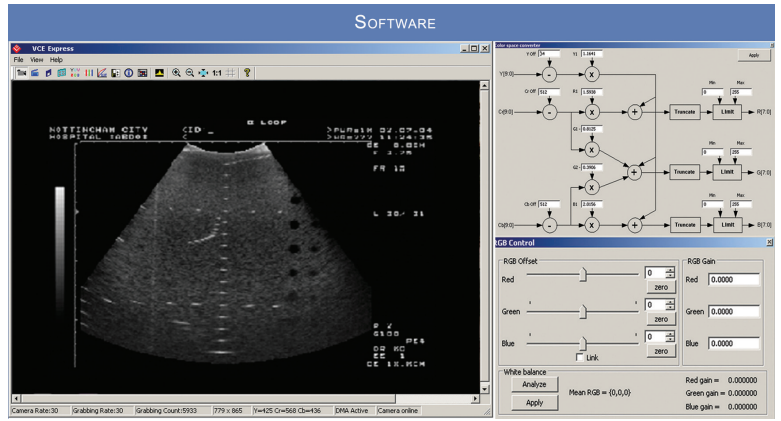|	
Features	ExpressCard/34 compliant providing 2.5 Gbps of bandwidth
	NTSC, PAL, RS170, or SECAM real time video acquisition
	Saves 16 bit YCrCb 4:2:2, 4:4:4 or RGB24 data
	Intelligent scatter/gather DMA for fast, efficient use of ExpressCard bandwidth and system memory
	Flow-through pipeline architecture for low latency
	Supports external trigger input (TTL)
	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
	RAW, BMP, TIFF or adjustable JPEG file format
	Plug-and-play with hot insertion and removal
	Image viewer with DVR controls
	Many advanced features including histograms, RGB gain/offset with auto-white balance, hex pixel dump, look up tables, gamma correction, etc.
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	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	ExpressCard/34 form factor
	4.28 x 1.3 x 0.7" (108 x 34 x 18mm)
	Weight 1.27 oz, 35.9g

IMPERX

WWW.IMPERX.COM

Order: VCE-ANEX03

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

SOFTWARE

[1.34]
34.0

[3.36]
85.3

[.20]
5.0

[4.50]
114.2

[4.70]
119.5

[.84]
21.4

[.65]
Ø16.5

[.44]
11.3

[1.36]
34.6

ExpressCard

VCE-ANEX03, Rev 2