FRAME GRABBERS

SPECIFICATIONS

IMPERX™

CAMERAS
FRAME GRABBERS
IMAGING SOLUTIONS

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

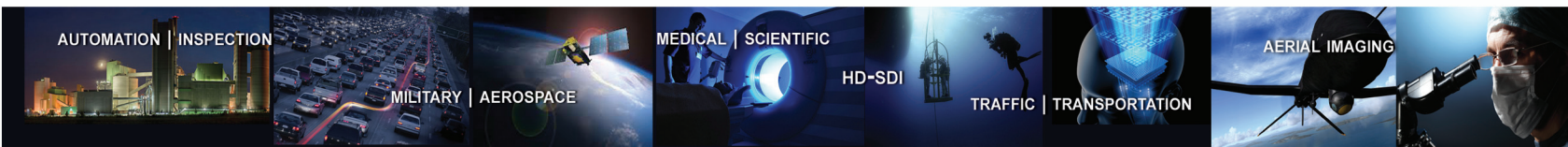|	
	ExpressCard/54 compliant providing 2.5 Gbps of bandwidth
	NTSC, PAL, RS170 or SECAM real time video acquisition
	16 bit YCrCb 4:2:2, 4:4:4 or 24 bit RGB formatting
	Intelligent scatter/gather DMA for fast, efficient use of ExpressCard bandwidth and system memory
	Flow-through pipelined architecture 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
	User specified cable lengths and terminating connectors
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	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.

AUTOMATION | INSPECTION

MILITARY | AEROSPACE

MEDICAL | SCIENTIFIC

HD-SDI

TRAFFIC | TRANSPORTATION

AERIAL IMAGING

IMPERX

WWW.IMPERX.COM

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 IMPERX at sales@imperx.com.

CABLES NOT SHOWN

ExpressCard

VCE-ANEX02, Rev 2