

IMPERX

FRAME GRABBERS



Analog ExpressCard/54 Video Capture Card



NTSC, PAL, RS170, or SECAM ExpressCard/54 (VCE- ANEX01)

*Video acquisition from a single NTSC/PAL/RS170 camera.
Supports switching between two SVideo or composite inputs.*

IMPERX Analog ExpressCard/54 is a professional level video capture card that enables users to view and store images in real time from any standard analog video source onto laptop computers. The Analog ExpressCard/54 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 gives users the flexibility to view, scroll or step through the recorded images. IMPERX Analog ExpressCard/54 VCE-ANEX01 comes with easy to use camera configuration software for fast integration into demanding machine vision environments.

- Supports NTSC, PAL, RS170, or SECAM video
- ExpressCard/54 compliant providing 2.5 Gbps of bandwidth
- Saves 16 bit YCrCb 4:2:2, 4:4:4 or RGB24 data
- External trigger input
- Intelligent scatter/gather DMA for fast, efficient use of ExpressCard bandwidth and system memory
- Flow-through pipelined architecture for low latency
- Advanced features include histograms, RGB gain/offset with auto-white balance, hex pixel dump, look up tables, Gamma correction, etc.
- On board color space conversion
- 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

Analog ExpressCard/54 VCE-ANEX01 Specifications

Features NTSC, PAL, RS170 or SECAM real time video acquisition
 ExpressCard/54 compliant
 PCI Express x1 lane providing 2.5 Gbps of bandwidth
 Intelligent scatter/gather DMA
 Flow-through pipelined 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 and hex pixel dump
 Image viewer with DVR controls

Software Application program: Full featured, intuitive, easy to use GUI
 Drivers: Win7/XP/2000/Vista, 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

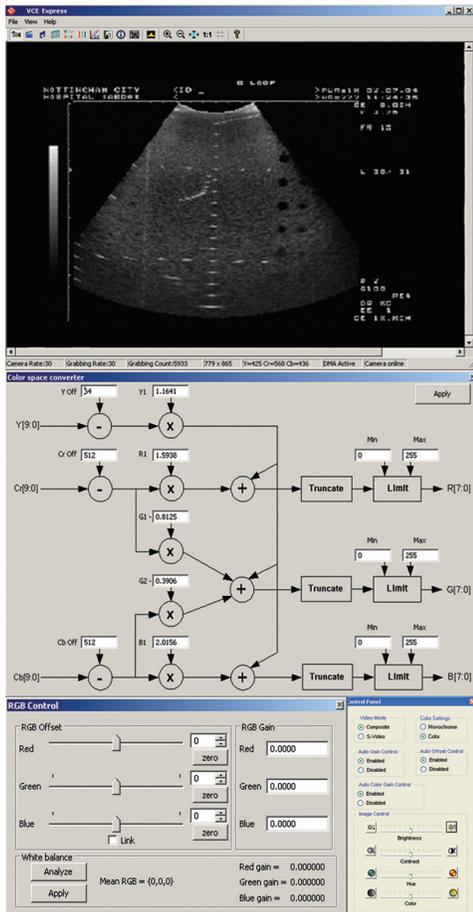
Regulatory FCC 15 part B, CE, RoHS

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

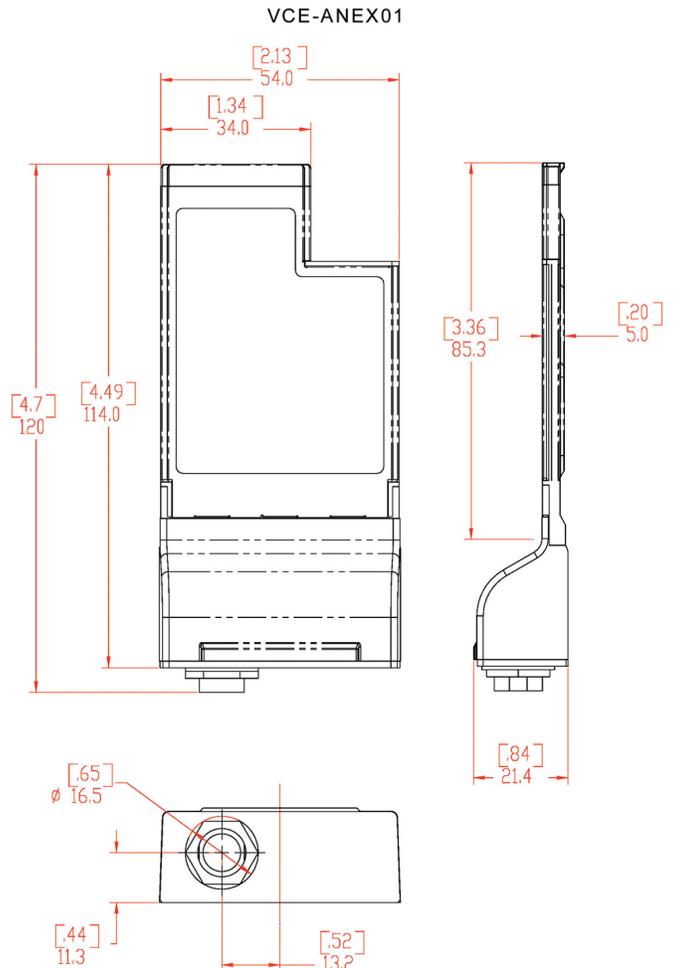
Order: VCE-ANEX01

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

Software



Mechanical Dimensions



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