FRAME GRABBERS



ExpressCard/54 Camera Link Video Capture Card







Framelink ExpressCard/54 (VCE- CLEX01)

Simultaneous acquisition from two base cameras or one medium camera. Advanced features: Lookup tables, histograms, RGB gain/offset with auto-white balance...

The IMPERX FrameLink ExpressCard/54 is a professional level PCI Express video capture card that enables users to view and store in real time mega pixel video images from Camera Link sources onto laptop computers. IMPERX FrameLink ExpressCard/54 is capable of capturing single or multiple frames and standard AVI clips on up to two base or one medium CameraLink compliant video source. Each captured frame can be stamped with a user message along with the date and time of capture. A full software suite that includes drivers, C/C++, SDK, and an application program is provided with each IMPERX FrameLink VCE-CLEX01 card.

- Supports two independent base or one medium Camera Link interface
- ExpressCard/54 compliant providing 2.5 Gbps of bandwidth
- Intelligent scatter/gather DMA for fast, efficient use of PCIe bandwidth and system memory
- Flow-through pipeline architecture for low latency
- Built in CC pulse generators
- Many advanced features including look up tables, histograms, RGB gain/offset with autowhite balance, hex pixel dump, etc.
- Bayer pattern interpolation
- Unique 'auto-learn' feature automatically recognizes camera parameters and simplifies
- CAM file creation
- Backwards compatible with FrameLink (PCMCIA) software



Automation

IMPERX Framelink ExpressCard/54 VCE-CLEX01 Specifications

Features

Software

Simultaneous acquisition from two base cameras or one medium Camera Link camera

PCI Express lane providing 2.5 Gbps of bandwidth

Intelligent scatter/gather DMA Flow-through pipelined architecture

Dynamic buffer allocation Selectable window sizes

Adjustable RGB brightness and auto white balance

Bayer pattern interpolation

Built in programmable logic controller

Captures single, multiple frames or AVI clips

Normal or delay capture
Date, time and text overlay

BMP, TIFF or adjustable JPEG file format

Image viewer with DVR controls

Application program: Full featured, intuitive, easy to use GUI

Drivers: Win XP/2000/Vista/7 in 32 and 64 bit versions, DirectX,

Labview, Matlab, Halcon, MIL, Linux

SDK: C/C++, COM, .NET, ActiveX – all with sample source code

Video Source

Video Format

Regulatory

Mechanical

Two CameraLink inputs configured as dual base or single medium:

- · Uses two mini-CL SDR connectors
- Base: 24 video data bits plus strobes and clock per channel
- Medium: 48 video data bits plus strobes and clock per channel
- · 4 camera control bits (CC1 to CC4) per channel
- · Bi-directional serial interface per channel

Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14,

1x16 and 3x8 (RGB24)

Medium: All base modes + 4x8, 3x10, 4x10, 3x12,

4x12, RGB30 and RGB36

Monochrome and color (RGB, Bayer and TRUESENSE)

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

FCC 15 part B, CE, RoHS

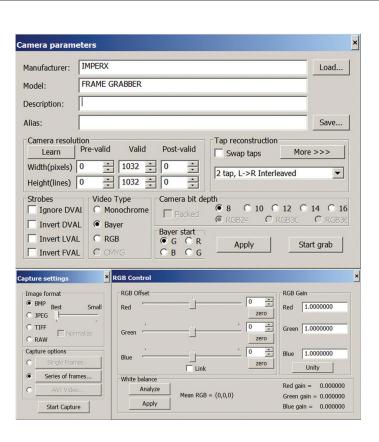
ExpressCard/54 form factor Weight 1.91 oz., 50g

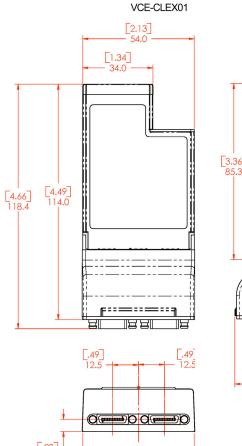
Order: VCE-CLEX01

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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