FRAME GRABBERS

IMPERX

SPECIFICATIONS

CAMERAS
FRAME GRABBERS
IMAGING SOLUTIONS

Camera Link® PCIe x4 Card for Desktop PCs

VCE-CLPCIe03

Simultaneous acquisition from two Base Camera Link cameras or one Medium Camera Link camera. Fully PoCL with SafePower compliant. Includes a comprehensive Programmable Logic Controller and 8 I/O signals.
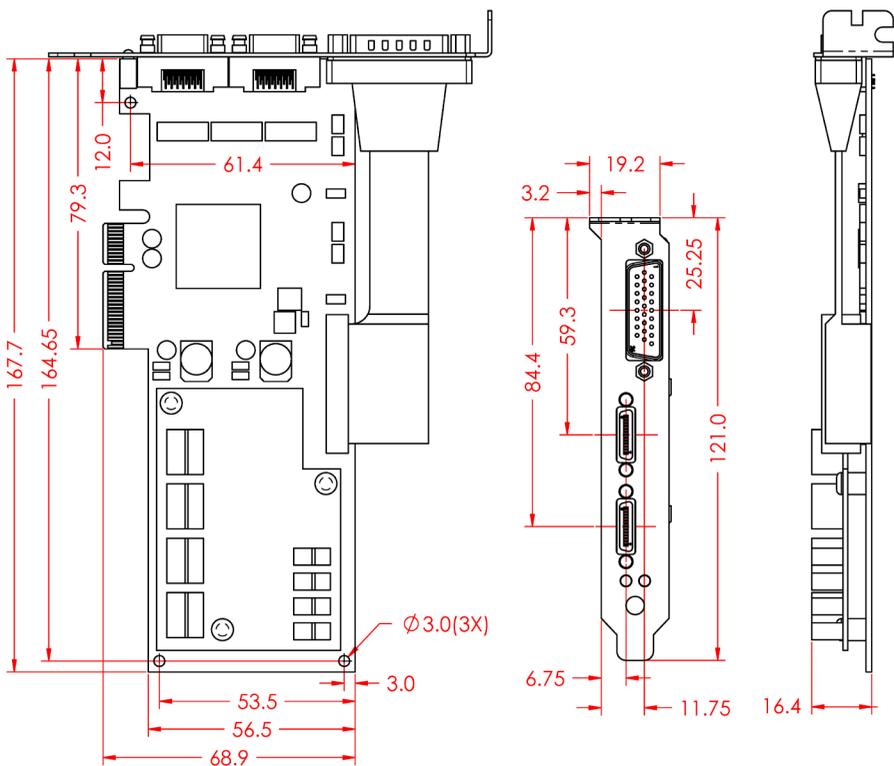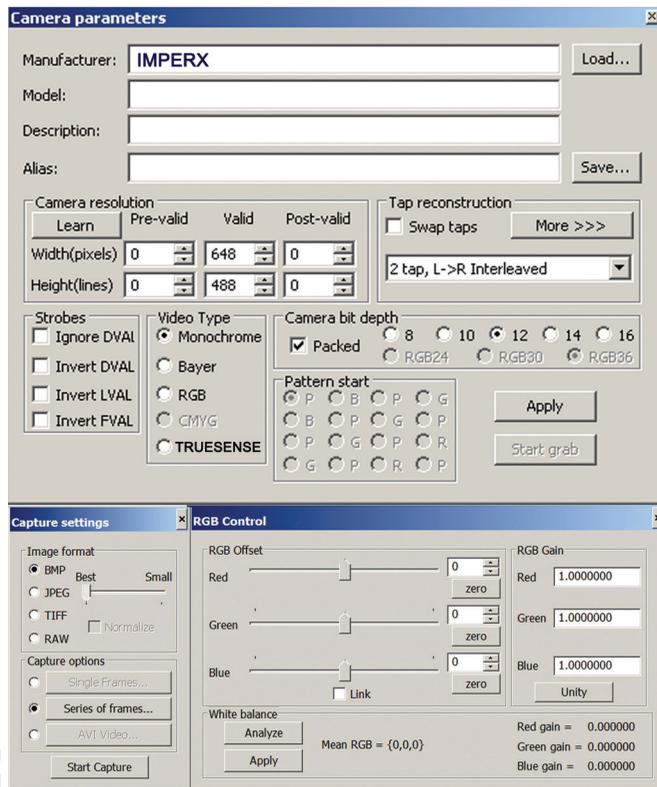
IMPERX Framelink PCIe x4 is a professional level PCI Express video capture card that enables users to view and store in real time mega pixel images from any Camera Link source onto desktop computers. This Framelink PCIe x4 is capable of capturing single or multiple frames and standard AVI clips from any Base or Medium Camera Link compliant video source. Each captured frame can be stamped with a user message along with the date and time of capture. The Framelink VCE-CLPCIe03 comes with easy to use camera configuration software for fast integration of the card into demanding machine vision environments.
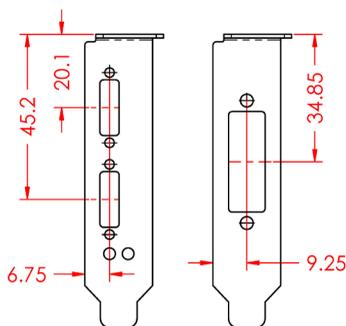
Features	PCIe x4 compliant providing 10 Gbps of bandwidth
	Fully compliant with the Power over Camera Link (PoCL) and Safe Power specifications
	Built in comprehensive programmable logic controller (PLC)
	Intelligent scatter/gather DMA for fast, efficient use of PCIe bandwidth and system memory
	Flow-through pipeline architecture for low latency
	Unique 'auto-learn' feature automatically recognizes camera parameters and simplifies CAM file creation
	Includes 4 external inputs each configurable as TTL, LVDS or Opto-coupled
	Includes 4 general outputs each configurable as TTL, LVDS, Opto-coupled or Open Collector
	Dynamic buffer allocation
	Selectable window sizes
	Adjustable RGB brightness and auto white balance
	Bayer pattern interpolation
	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
	Many advanced features including look up tables, histograms, RGB gain/offset with auto-white balance, hex pixel dump, etc.
Software	Application program: Full featured, intuitive, easy to use GUI
	Drivers: Win XP/2000/Vista/7/8 in 32 and 64 bit versions, DirectX, LabVIEW, Matlab, Halcon, MIL
	SDK: C/C++, COM, .NET, ActiveX – all with sample source code
Video Source	Uses two mini-CL (SDR/HDR) 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
Video Format	Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14, 1x16 and 3x8 (RGB24)
	Medium: 4x8, 3x10, 4x10, 3x12, 4x12, RGB30 and RGB36
	Monochrome and color: RGB, Bayer and TRUESENSE Sparse CFA
Power	3.3V DC +/-5%, 500 mA steady
	1.65W constant power
Environmental	Operating temperature: -40°C to +85°C
	Relative humidity: 90% non-condensing
MTBF	>390,000 hours @ 50°C (MIL-STD-785B, MIL-HDBK-217F)
Regulatory	FCC part 15, Class B, CE, RoHS
Mechanical	Low profile PCI Express form factor

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Order: VCE-CLPCIe03

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

ALSO SUPPLIED WITH LOW PROFILE BRACKETS

VCE-CLPCIe03, Rev 2