

## SPECIFICATIONS



CAMERAS FRAME GRABBERS IMAGING SOLUTIONS

# VCE-CLPCle02



**IMPERX** Framelink PCIe x1 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. The Framelink PCIe x1 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-CLPCIe02 comes with easy to use camera configuration software for fast integration of the card into demanding machine vision environments.

### Camera Link<sup>®</sup> PCIe x1 Card for Desktop PCs

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.

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	PCIe x1 compliant providing 2.5 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			
	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			
	Unique 'auto-learn' feature automatically recognizes camera parameters			
	and simplifies CAM file creation			
	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, DirectX, Halcon, LabVIEW, Matlab			
	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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MILITARY | AEROSPACE

TRAFFIC | TRANSPORTATION

AERIAL IMAGIN

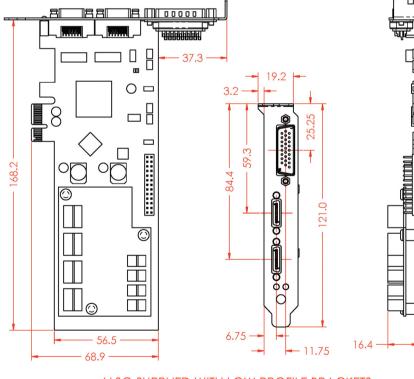
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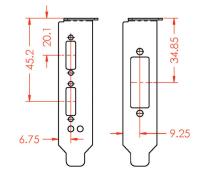
### Order: VCE-CLPCIe02

For specific details and ordering information, consult the FrameLink Express user's manual

	LUau				
Model:					
Description:					
Alias:			Save		
Camera resolution Learn Pre-valid	Valid	Post-valid Tap reconstruct	tion More >>>		
Width(pixels) 0	648 ÷				
Height(lines) 0	488 🕂	2 tap, L->R In	terleaved		
Strobes       Video Type         Ignore DVAL       Ignore DVAL         Invert DVAL       Monochrome         Invert DVAL       Bayer         Invert LVAL       RGB         Invert FVAL       CMYG         TRUESENSE       P C G C P C R         G C P C R C P       Start grab					
Capture settings	RGB Control				
Image format     BMP     Best     Small     JPEG	RGB Offset	0	RGB Gain Red 1.0000000		
C TIFF C RAW	Green 0				
Capture options C Single Frames C Series of frames	Blue		Blue 1.0000000 Unity		
AVI Video      Start Capture	White balance Analyz Apply	e Mean RGB = {0,0,0}	Red gain = 0.000000 Green gain = 0.000000 Blue gain = 0.000000		



#### ALSO SUPPLIED WITH LOW PROFILE BRACKETS





Société SAIS

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VCE-CLPCIe02, Rev 2