VCE-HDmPCIe01

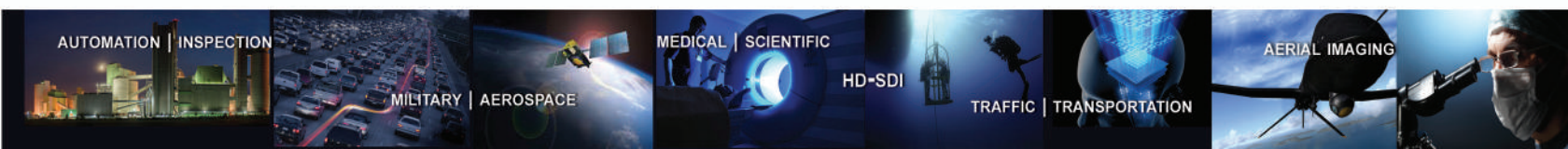
HD-SDI Mini-PCIe for Desktop PCs

Acquisition from an SD or HD-SDI video source.
Advanced features: Look up tables, histograms, RGB gain/offset with auto-white balance...

IMPERX HD-SDI Mini-PCIe is a professional level PCI Express video capture card that enables users to view and store in real time mega pixel video images from any standard HD-SDI video source onto desktop PC computers. IMPERX HD-SDI Mini-PCIe is capable of capturing single or multiple frames and standard AVI clips from any SD or HD-SDI 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 HD-SDI Mini-PCIe (VCE-HDmPCIe01) card.

Note: The physical dimensions of this card are larger than a standard mini-PCIe card. As such, it is not compliant with the PCI Express® Mini Card Electromechanical Specification.

Features	Mini-PCIe compliant providing 2.5 Gbps of bandwidth
	Intelligent scatter/gather DMA for fast, effcient use of PCIe x1 band-width and system memory
	SD and HD-SDI formats for 720p,1080 and 1080p video
	SMPTE 292M serial interface and SMPTE 274M/296M framing
	SD or HD-SDI real time video and audio acquisition with SDI loop-through
	Audio acquisition of two 24 bit channels @ 48KHz
	A second MCX coaxial connector provides an SDI loop-through capability
	Bi-directional RS232/RS485 serial interface for camera control (Optional)
	16/20 bit YCrCb 4:2:2 or 24-bit RGB formatting
	Flow-through pipelined architecture for low latency
	On board color space conversion
	Dynamic buffer allocation
	Selectable window sizes
	Adjustable RGB brightness and auto white balance
	Programmable RGB lookup tables and gamma correction
	Captures single, multiple frames or AVI clips
	Normal or delay capture
	Date, time and text overlay
	RAW, BMP, TIFF or adjustable JPEG file format
	Image viewer with DVR controls
	Plug-and-Play operation with hot insertion / removal
	Many advanced features including look up tables, histograms, RGB gain/offset with auto-white balance, hex pixel dump, gamma correction
Software	Application program: Full featured, intuitive, easy to use GUI
	Drivers: Win XP/2000/Vista/7/8, DirectX, Halcon, Adobe Premiere, Matlab
	SDK: C/C++,COM, .NET, ActiveX - all with sample source code
Video Source	Two 75 ohm MCX coaxial connectors (in and out)
	Analog SMPTE 292M serial interface operating at 1.485Gbps
	SMPTE 274M and SMPTE 296M framing
Power	3.3V DC +/-5%, 500 mA steady
	1.65W constant power
Communications	RS232/RS485 ASYNC UART for camera control
	6-pin Hirose style connector (Optional)
Environmental	Operating temperature: -40°C to +85°C
	Relative humidity: 90% non-condensing
MTBF	>372,000 hours @ 50°C (MIL-STD-785B, MIL-HDBK-217F)
Regulatory	FCC part 15, Class B, CE, RoHS
Mechanical	Low profile PCI Express form factor
	Weight 1.91 oz., 47g



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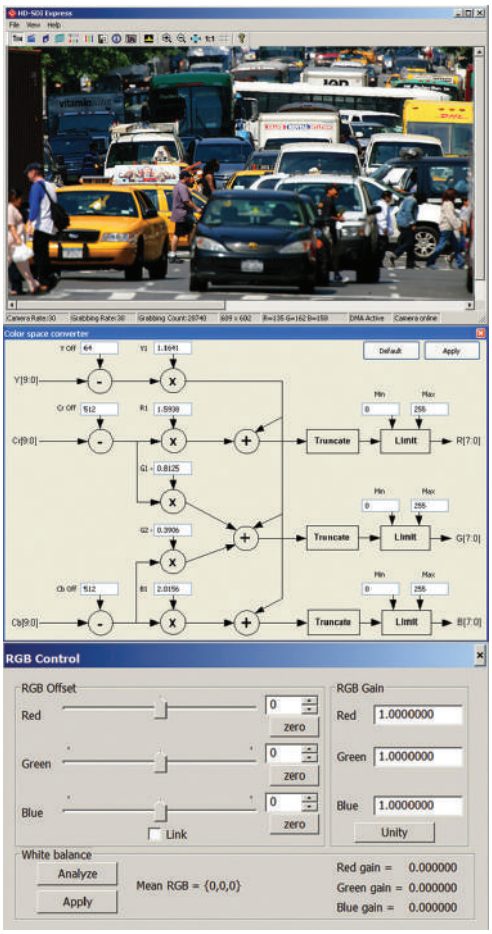

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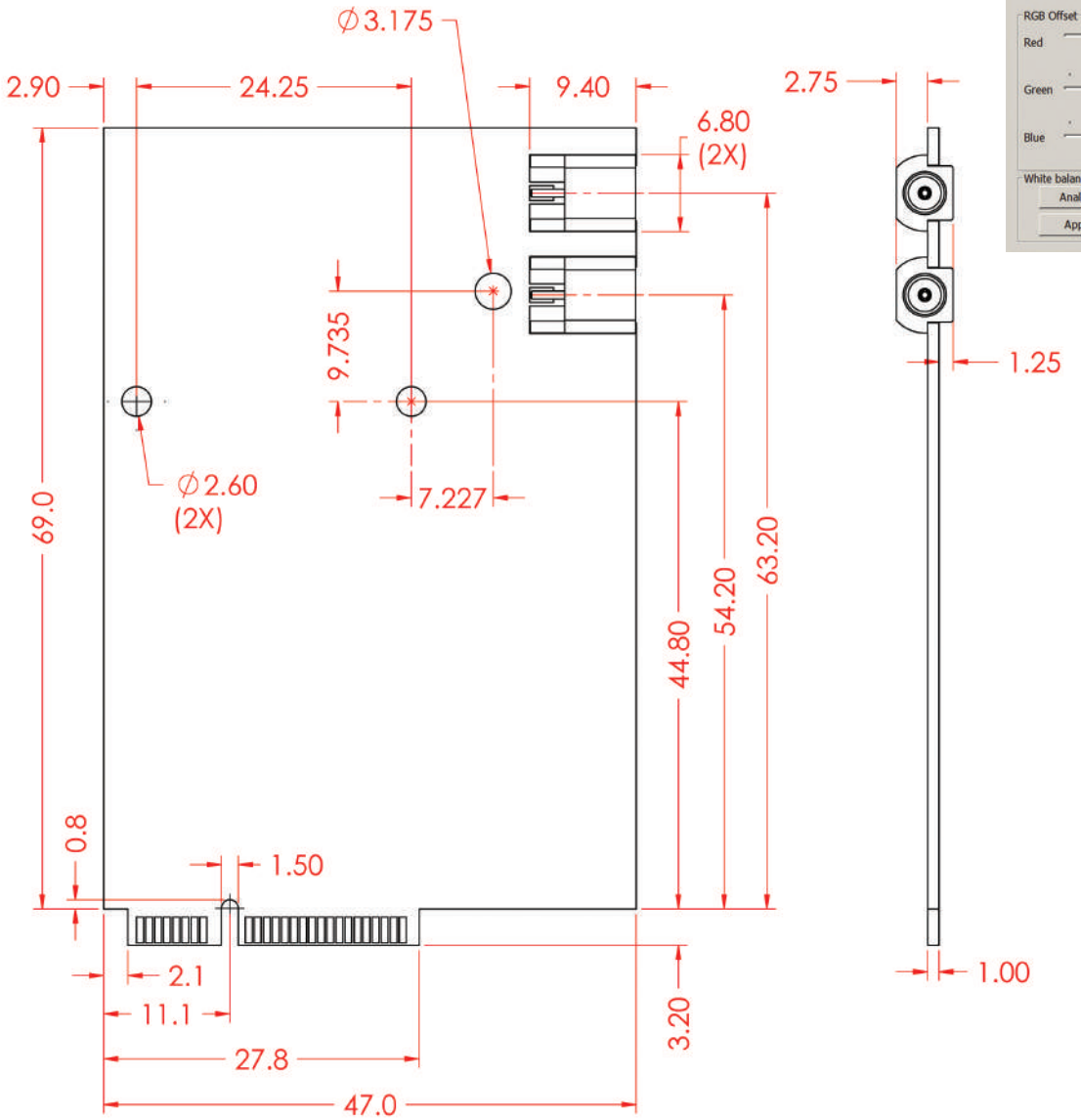
Order: VCE-HDmPCIe01

For specific details and ordering information, consult the **HD-SDI Express** user's manual or contact SACASA SAIS.



VCE-HDmPCIe01, Rev 2

SACASA INDUSTRIES ET SYSTEMES BAT A6 Domaine de St Paul 102 route de Limours - 78470 ST REMY LES CHEVREUSE
Tel : 09 54 16 23 53 - Fax : 09 59 16 23 53 - contact@sacasa.info - www.sacasa.info