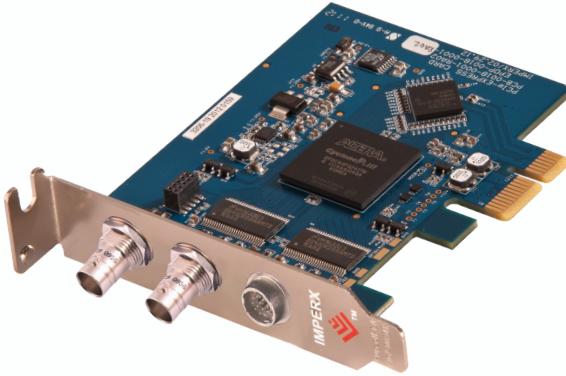


**SPECIFICATIONS****VCE-HDPCle01****HD-SDI PCIe x1 for Desktop PCs**

*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 PCIe x1 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 PCIe x1 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 PCIe x1 (VCE-HDPCle01) card.

**Features**

- PCIe x1 compliant providing 2.5 Gbps of bandwidth
- SD and HD-SDI formats for 720p, 1080i 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 BNC connector provides an SDI loop-through capability
- Bi-directional RS232/RS485 serial interface for camera control
- 16/20 bit YCrCb 4:2:2 or 24-bit RGB formatting
- Intelligent scatter/gather DMA for fast, efficient use of PCIe x1 bandwidth and system memory
- 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 BNC coaxial connectors (in and out)
- Analog SMPTE 292M serial interface operating at 1.485Gbps
- SMPTE 274M and SMPTE 296M framing

**Communications**

- RS232/RS485 ASYNC UART for camera control

**Power**

- 6-pin Hirose style connector
- 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**

- >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



HD-SDI

TRAFFIC

TRANSPORTATION

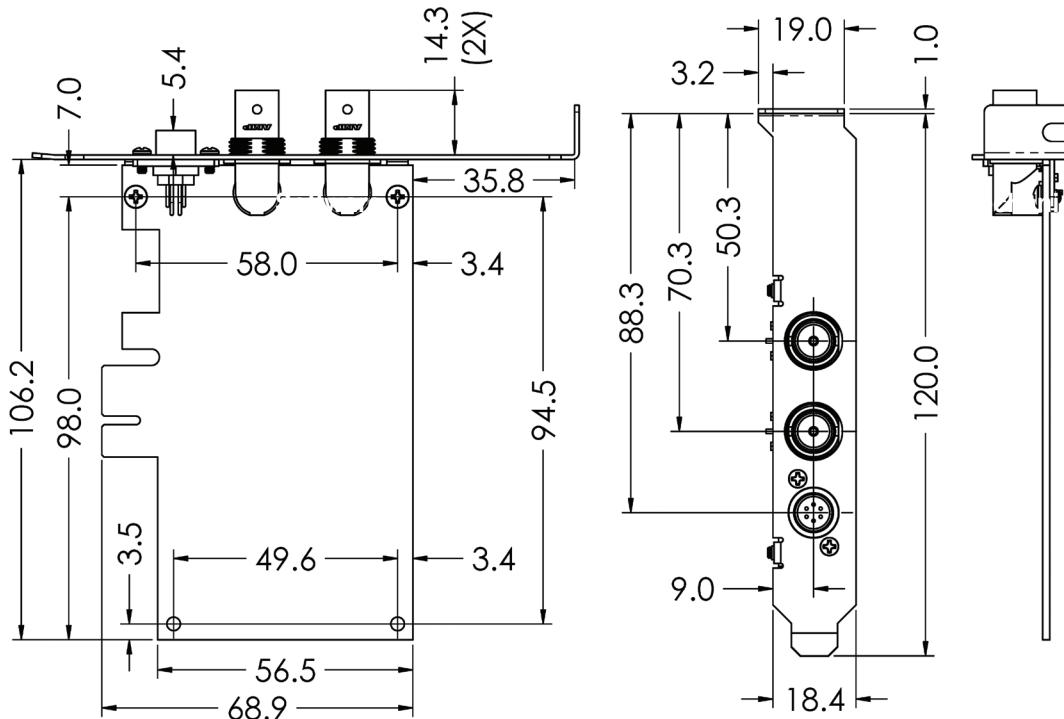




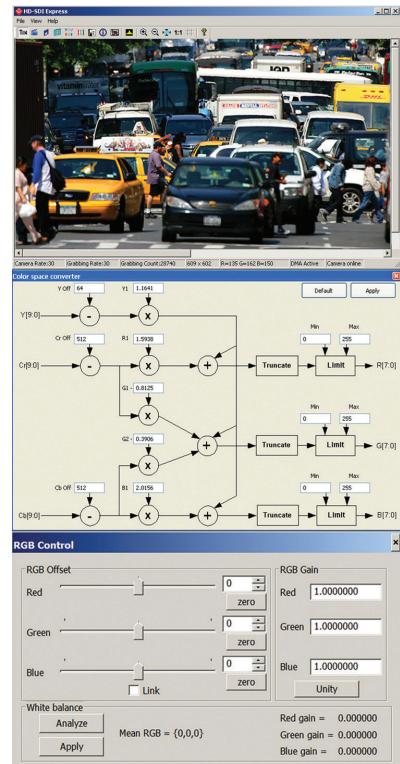
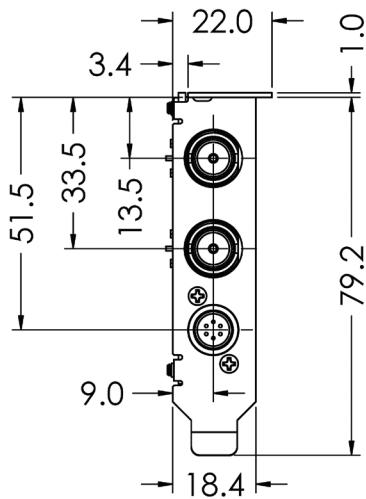
WWW.IMPERX.COM

**Order: VCE-HDPCle01**

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



ALSO SUPPLIED WITH LOW PROFILE BRACKET



VCE-HDPCle01, Rev 2