PRODUCT BROCHURE 2019 CHEETAH • TIGER • BOBCAT





BEST CAMERAS • **BEST PRICE** • **BEST FIT**

www.imperx.com

Best Quality at the Highest Standards

Rugged Camera Portfolio

Options to Suit Your Needs



Our cameras are available in many resolutions: from VGA to our 50 megapixel super high-resolution camera and with speeds from 2 fps to over 250 fps. All come with full software support and are available in a variety of interfaces including 10 GigE Vision[®], HD-SDI, Power Over Ethernet (PoE)[®], Camera Link[®], GigE Vision[®], USB3 Vision[™], and CoaXpress cameras. They are available with sensor options such as monocrome, color, and TrueSense Sparse CFA. For over 17 years, Imperx has been designing and manufacturing ruggedized and industrial cameras which operate in extreme conditions. Designed to perform to the highest standards in harsh environments, the extended operating temperature of our CCD and CMOS cameras is -40°C to +85°C with a MTBF > 660,000 hours @ 40°C. With an aim to clearly understand customer's needs, Imperx finds a tailored approach and customized solutions for an endless array of applications, combined with the benefit and experience of our industry experts. These attributes have made Imperx one of the leading camera manufacturers worldwide, in various markets.



Reliable Cameras for Industrial & Commercial Applications

Imperx provides camera technology and imaging solutions for a diverse range of industries including security and defense, military, automation, machine vision, aerospace, aerial (UAV and drone), inspection, scientific (telescopy and astronomy), medical (endoscopy, microscopy), traffic monitoring, and many more application areas in digital imaging.



Quality Policy

Imperx Management and employees are committed to utilizing the Quality Management System to continually review and improve our products and processes while using innovative technology to meet and exceed our customer's quality, value, and service expectations, as well as to comply with external requirements in providing Digital Cameras and Imaging Solutions for industrial, scientific, medical, aerospace, geological, and security applications.



Code of Conduct

- Remain focused on technological innovation and leadership.
- Always strive for quality and excellence in everything we do.
- Continue to grow our business but remain attentive to all of our customers' wants and needs.

• Stay true to our uncompromising principles of **dedication**, **respect**, **fairness**, **integrity and responsibility** towards customers, employees, suppliers and stakeholders alike.

Our mission is to remain a dominant player in a vibrant global imaging market by continuing to develop innovative imaging technologies and helping our customers reach their full potential with value-added quality products, synergetic cooperation, and support they can count on.

Stay Informed!



SIGN UP FOR OUR NEWSLETTER TO STAY TUNED ON EXCLUSIVE IMPERX UPDATES!



SCAN ME!



Easy to use, fast, precise CMOS imaging

The Imperx Cheetah CMOS camera series provides customers with the quality, versatility, and rugged durability needed to meet their most complex and demanding requirements. Featuring the finest CMOS sensor technology from ON Semiconductor and Sony and advanced Imperx image processing, these cameras are ideal for industrial, scientific, medical, aerospace, transportation, and many other uses. An easy-to-use software configuration tool simplifies programming of camera settings and parameters. The Cheetah series is the first high performance CMOS product line intended not only for machine vision, but also for surveillance, reconnaissance, aerospace, intelligent traffic systems, and more. These cameras have very fast frame rates, low noise, wide dynamic range, and excellent near-infrared sensitivity. They have an extremely flexible architecture so one camera can do multiple jobs (for example, a low resolution video camera and a high resolution still camera).



SCAN ME!



| | | SENSOR INFO | | |
|--------------|---------------------------|-------------|----------------|-------------|
| CAMERA MODEL | SENSOR PART NO. | SIZE | OPTICAL FORMAT | RESOLUTION |
| C1920 | Sony Pregius IMX-174 | 2MP | 1/1.2" | 1920 x 1080 |
| C2000 | Sony Pregius IMX-265 | 3MP | 1/1.8" | 2064 x 1544 |
| C2010 | Sony Pregius IMX-265 | 3MP | 1/1.8" | 1920 x 1080 |
| C2020 | Sony Pregius IMX-252 | 3MP | 1/1.8" | 2064 x 1544 |
| C2400 | Sony Pregius IMX-264 | 5MP | 2/3" | 2464 x 2056 |
| C2410 | Sony Pregius IMX-264 | 5MP | 2/3" | 2464 x 2056 |
| C2410 Y/Z* | Sony Pregius IMX-250MY/ZR | 5MP | 2/3" | 2464 x 2056 |
| C2420 | Sony Pregius IMX-250 | 5MP | 2/3" | 2464 x 2056 |
| C2420Y/Z* | Sony Pregius IMX-250MY/ZR | 5MP | 2/3" | 2464 x 2056 |
| C2880 | ON Semi KAC-06040 | 6MP | 1" | 2832 x 2128 |
| C3210 | Sony Pregius IMX-428 | 7.1MP | 1.1" | 3216 x 2208 |
| C3220 | Sony Pregius IMX-420 | 7.1MP | 1.1" | 3216 x 2208 |
| C4010 | Sony Pregius IMX-267 | 9MP | 1" | 4112 x 2176 |
| | | | | |



Everything you need in CMOS

Our CMOS cameras give you control over your imaging with a wide range of models, features, and programming options. Advanced CMOS technology and Imperx engineering expertise provision cameras with excellent uniformity for the highest levels of image quality, unique features like wide dynamic range, flexible trigger/strobe options, and a choice of 10 GigE Vision[®], Camera Link[™], CoaXPress, Power Over Ethernet (PoE)[®], USB3 Vision[™], GigE Vision[™] HD-SDI and 3G-SDI interfaces.

KEY FEATURES

- NEW! 10GigE Output Interface
- · Global shutter
- High frame rates
- Full array of output interfaces
- Full range of CMOS Cameras:
- 2 to 31 megapixels





Imperx CMOS cameras help customers capture **vital production**, **performance, surveillance**, and **scientific information worldwide**.

| | INTERFACE TYPE | | | | | |
|-----|----------------|-----|-----------|----------|-----------------|-----|
| CLF | СХР | U3V | GEV / PoE | IP67-GEV | 3G-SDI / HD-SDI | 10G |
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| | | | PoE | | | |
| | | | PoE | • | • | |
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| • | 2xCXP-6 | • | | | | |
| | | | PoE | • | | |
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| | | | PoE | • | | |
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See Beyond the Glare with Imperx Polarization Cameras

Imperx C2410Y/Z and C2420 Y/Z cameras feature the Sony Pregius IMX-250MY/ZR micro-polarized CMOS sensor, available in monochrome (Z) or color (Y) versions and with a unique 2x2 pixel sub-array where each pixel within the sub-array blocks a different polarization angle (0, 45, 90, or 135 degrees). With this camera, the user can obtain images from four different polarization angles in EACH image capture. Imperx software allows the user to select/view images from each polarization angle or save raw image files with all four angles for further processing.



The cameras' rugged design, wide temperature range, and outstanding sensitivity make them the preferred choice for a broad range of applications including reducing glare off glass/ water/painted surfaces, visualizing stress in transparent materials, 3D image reconstruction, factory automation, materials science, security, pharmaceutical, packaging, food sorting, and MORE. Contact us at sales@imperx.com and order yours TODAY.



| C4020 Sony Pregius IMX-255 9MP 1" 4112 or C4080 ON Semi KAC-12040 12MP 4/3" 4000 or C4110 Sony Pregius IMX-304 12MP 1.1' 4112 or C4120 Sony Pregius IMX 253 12MP 1.1' 4112 or C4120 Sony Pregius IMX 253 12MP 1.1' 4112 or C4180 ON Semi Python NOIP1XX012KA 12MP 4/3" 4006 or C4180 ON Semi Python NOIP1XX012KA 12MP 4/3" 4096 or C4181 ON Semi Python NOIP1XX012KA 12MP APS-H 4096 or C4181 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 or C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 or C5410 Sony Pregius IMX 387 17MP 4/3" 5472 or C4410 Sony Pregius IMX 367 20MP 4/3" 4432 or | | | SENSOR INF | 0 | | |
|---|--------------|---------------------------|------------|-------------|----------------|--|
| C4080 ON Semi KAC-12040 12MP 4/3" 4000 x C4110 Sony Pregius IMX-304 12MP 1.1' 4112 x C4120 Sony Pregius IMX 253 12MP 1.1' 4112 x C4180 ON Semi Python NOIP1XX012KA 12MP 4/3" 4006 x C4190 ON Semi Python NOIP1XX012KA 12MP 4/3" 4096 x C4181 ON Semi Python NOIP1XX012KA 12MP APS-H 4096 x C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 x C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 x C5410 Sony Pregius IMX 387 17MP 4/3" 5472 x C4410 Sony Pregius IMX 367 20MP 4/3" 4432 x | DEL SENSC | SENSOR PART NO. | SIZE | OPTICAL FOR | MAT RESOLUTION | |
| C4110 Sony Pregius IMX-304 12MP 1.1' 4112 m C4120 Sony Pregius IMX 253 12MP 1.1'' 4112 m C4120 Sony Pregius IMX 253 12MP 1.1'' 4112 m C4180 ON Semi Python NOIP1XX012KA 12MP 4/3" 4096 m C4190 ON Semi Python NOIP1XX012KA 12MP APS-H 4096 m C4181 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 m C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 m C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 m C5410 Sony Pregius IMX 387 17MP 4/3" 5472 m C4410 Sony Pregius IMX 367 20MP 4/3" 4432 m | Sony Pr | Sony Pregius IMX-255 | 9MP | 1" | 4112 x 2176 | |
| C4120 Sony Pregius IMX 253 12MP 1.1" 4112 m C4180 ON Semi Python NOIP1XX012KA 12MP 4/3" 4096 m C4190 ON Semi Python NOIP1XX012KA 12MP APS-H 4096 m C4190 ON Semi Python NOIP1XX012KA 12MP APS-H 4096 m C4181 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 m C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 m C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 m C5410 Sony Pregius IMX 387 17MP 4/3" 5472 m C4410 Sony Pregius IMX 367 20MP 4/3" 4432 m | ON Ser | ON Semi KAC-12040 | 12MP | 4/3" | 4000 x 3000 | |
| C4180 ON Semi Python NOIP1XX012KA 12MP 4/3" 4096 C4190 ON Semi Python NOIP1XX012KA 12MP APS-H 4096 C4181 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 4096 C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 < | Sony Pr | Sony Pregius IMX-304 | 12MP | 1.1' | 4112 x 3008 | |
| C4190 ON Semi Python NOIP1XX012KA 12MP APS-H 4096 C4181 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 C5410 Sony Pregius IMX 387 17MP 4/3" 5472 C4410 Sony Pregius IMX 367 20MP 4/3" 4432 | Sony Pr | Sony Pregius IMX 253 | 12MP | 1.1" | 4112 x 3008 | |
| C4181 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 x C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 x C5410 Sony Pregius IMX 387 17MP 4/3" 5472 x C410 Sony Pregius IMX 367 20MP 4/3" 4432 x | ON Semi Pytl | ON Semi Python NOIP1XX012 | 2KA 12MP | 4/3" | 4096 x 3072 | |
| C4191 ON Semi Python NOIP1XX016KA 16MP APS-H 4096 C5410 Sony Pregius IMX 387 17MP 4/3" 5472 C410 Sony Pregius IMX 367 20MP 4/3" 4432 | ON Semi Pytl | ON Semi Python NOIP1XX012 | 2KA 12MP | APS-H | 4096 x 3072 | |
| C5410 Sony Pregius IMX 387 17MP 4/3" 5472 m C4410 Sony Pregius IMX 367 20MP 4/3" 4432 m | ON Semi Pytl | ON Semi Python NOIP1XX016 | 6KA 16MP | APS-H | 4096 x 4096 | |
| C4410 Sony Pregius IMX 367 20MP 4/3" 4432 m | ON Semi Pytl | ON Semi Python NOIP1XX016 | SKA 16MP | APS-H | 4096 x 4096 | |
| | Sony Pr | Sony Pregius IMX 387 | 17MP | 4/3" | 5472 x 3084 | |
| C5180 ON Semi Python NOIP1SXX25KA 25MP APS-H 5120 x | Sony Pr | Sony Pregius IMX 367 | 20MP | 4/3" | 4432 x 4436 | |
| | ON Semi Pyth | ON Semi Python NOIP1SXX25 | 5KA 25MP | APS-H | 5120 x 5120 | |
| C5190 ON Semi Python NOIP1SXX25KA 25MP APS-H 5120 x | ON Semi Pyth | ON Semi Python NOIP1SXX25 | 5KA 25MP | APS-H | 5120 x 5120 | |
| C6410 Sony Pregius IMX 342 31 MP APS-C 6480 m | Sony Pr | Sony Pregius IMX 342 | 31MP | APS-C | 6480 x 4860 | |



Simplify Your System with our **Power Over Ethernet** (PoE)[®] Cameras

Imperx announces new Cheetah CMOS cameras with Sony Pregius image sensors and GigE Vision[™] Power over Ethernet (PoE)[®] interface. PoE is a technology that enables network cables to use an existing data connection to carry electrical power over a single Cat5e or Cat6 ethernet cable. Because this cabling is inexpensive and reaches lengths of 100 meters, this interface can go the distance for you. Greatly simplifying any system design, Imperx PoE[®] cameras eliminate the need for extra power cabling so that you can enhance your productivity and re-distribute your resources where they really count. To learn more about our brand-new PoE[®] releases as well as our trusted, existing models with this interface, contact us today.

IP67 CAMERA ENCLOSURES

Coming soon, Imperx will offer several Power over Ethernet (PoE)[®] camera models with IP67 sealed enclosures which are rated to withstand complete immersion in up to 1 meter of water for 30 minutes. By combining Imperx's robust camera design with an IP67 rated housing, the cameras can be utilized in harsh environments.



| INTERFACE TYPE | | | | | | |
|----------------|---------|-----|-----------|----------|-----------------|-----|
| CLF | CXP | U3V | GEV / PoE | IP67-GEV | 3G-SDI / HD-SDI | 10G |
| • | | | | | | |
| • | 2xCXP-6 | • | | | | |
| | | | PoE | • | | |
| • | | | | | | |
| • | 2xCXP-6 | • | GEV | | | |
| | 4xCXP-6 | | | | | |
| • | 2xCXP-6 | • | GEV | | | |
| | 4xCXP-6 | | | | | |
| | | | PoE | | | |
| | | | PoE | | | |
| • | 2xCXP-6 | • | GEV | | | • |
| | 4xCXP-6 | | | | | |
| | | | PoE | | | |



New Tiger Camera Series Advances CCD Performance & Value

In 2018, Imperx added the Tiger series of cameras to its existing line of advanced digital CCD cameras. Like the Bobcat series, the Tiger series offers a variety of models, high quality, low noise, flexibility, and dependability, while offering several improvements and new capabilities:

- · New imaging platform with latest sensor design and technology
- Resolutions up to 50MP
- Improved NIR sensitivity sensors
- Lower power requirements
- Reduced noise
- Ruggedized and Industrial versions
- Support for active/passive Canon EOS lens
- · Simplified feature sets for easier use

The remarkable Tiger cameras use larger, faster sensors (1" to 57mm optical formats) and advanced processing technology to meet ever more demanding applications. Camera resolutions include 50, 47, 29, 16, 8.6, and 4 megapixels and offer a broad range of frame rates.



SCAN ME!

KEY FEATURES

- · Ruggedized and Industrial Versions
- Forced Air cooling option available
- · Full array of output interfaces
- Full range of CCD Cameras: *Up to 50 megapixels*



| | | SENSOR INFO | | |
|--------------|-------------------|-------------|----------------|--------------|
| CAMERA MODEL | SENSOR PART NO | SIZE | OPTICAL FORMAT | RESOLUTION |
| T2040 | ON Semi KAI-04070 | 4MP | 4/3" | 2072 x 2072 |
| T3340 | ON Semi KAI-08051 | 8MP | 4/3" | 3320 x 2496 |
| T3640 | ON Semi KAI-08670 | 8.6MP | 32.0mm | 3624 x 2424 |
| T4840 | ON Semi KAI-16070 | 16MP | 43.2mm | 4880 x 3232 |
| T4940 | ON Semi KAI-16050 | 16MP | 32.3mm | 4920 x 3280 |
| T6640 | ON Semi KAI-29050 | 29MP | 43.3mm | 6600 x 4400 |
| T6641 | ON Semi KAI-29052 | 29MP | 43.3mm | 6600 x 4400 |
| T8040 | ON Semi KAI-43140 | 43MP | 43.3mm | 8080 x 5400 |
| T8810 | ON Semi KAI-47051 | 47MP | 57.0mm | 8880 × 5300 |
| T8820 | ON Semi KAI-47051 | 47MP | 57.0mm | 8880 × 5300 |
| T9040 | ON Semi KAI-50140 | 50MP | 51.7mm | 10480 x 4840 |

8 | IMPERX*

Minimizing Costs with the Highest Quality

The Right Choice for Any Budget, Any Scenario

OUR LINE OF RUGGEDIZED CAMERAS FOR AEROSPACE AND DEFENSE APPLICATIONS

The aerospace and defense industries are an ideal match for Imperx's reliable, tough and competitively priced camera models. All Imperx cameras provide extended operational temperature range with excellent shock-vibration performance.

These products adhere to strict quality protocols and are designed to meet military standards such as MIL SPEC 810G, ensuring durable and dependable performance in the harshest environments. Ruggedized and Industrial versions assure *performance* and *value*.

RUGGEDIZED VERSION II

INDUSTRIAL VERSION

- Tougher environments/ applications
- Wider temperatures (-40C to +85C)
- Greater shock and vibration
- Durability in a wide range
 of applications
- Ideal for commercial temperatures (-10C to +60C)
- Programming flexibility

IMPERX TDI MODELS

Time-delayed integration (TDI) refers to an imaging technology used for observing high-speed moving object under low light conditions normally undetectable by classic CCD imaging. TDI mode preserves image quality and sensitivity in fast-moving objects. Select Imperx CCD models support TDI mode for space applications! Contact us for more information.





| INTEF | RFACE TYPE |
|-------|------------|
| CLF | СХР |
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Time-tested with a proven track record

The Bobcat 2.0 series of cameras are programmable, high quality, low noise, CCD cameras with a high-density FPGA for programmable features. They include 8, 10, 12 or 14-bit output and compatibility with popular output interfaces and range from VGA to 29-megapixel cameras. This series has MTBF of > 660,000 hours @ 40°C and -40°C to +85°C Operating, -50°C to +90°C Storage.

The **Bobcat series** features advanced, fully programmable CCD cameras designed for imaging applications that require high quality images with powerful features and flexibility.

KEY FEATURES

- - SCAN ME!
- Standard and Overclocked modes
- Debounce Control
- Up to 8 ROIs
- 2x 12 bit LUTs
- Auto-Exposure Control/Auto-Gain control with Programmable limits
- Programmable trigger delay
- Auto White Balance
- Programmable frames per trigger & triggers per frame



| | | SENSOR INFO | | | |
|--------------|-------------------------|-------------|----------------|-------------|-------------|
| CAMERA MODEL | SENSOR PART NO | SIZE | OPTICAL FORMAT | RESOLUTION | MAX FPS: CL |
| B1410 | Sony ICX-285 EXview HAD | 1.4 MP | 2/3" | 1392 x 1040 | 30 |
| B3320 | ON Semi KAI-08050 | 8 MP | 4/3" | 3312 x 2488 | 10.6 |
| B3340 | ON Semi KAI-08050 | 8 MP | 4/3" | 3312 x 2488 | 21 |
| B4020 | ON Semi KAI-11002 | 11 MP | 43.3mm | 4032 x 2688 | 6.4 |
| B4820 | ON Semi KAI-16000 | 16 MP | 43.3mm | 4904 x 3280 | 4.2 |
| B4821 | ON Semi KAI-16050 | 16 MP | APS-H | 4920 x 3280 | 4.2 |
| B4841 | ON Semi KAI-16050 | 16 MP | 32.36mm | 4920 x 3280 | 8.8 |
| B4822 | ON Semi KAI-16070 | 16 MP | 35mm | 4880 x 3256 | 4.1 |
| B4842 | ON Semi KAI-16070 | 16 MP | 43.2mm | 4880 x 3265 | 7.9 |
| B6620 | ON Semi KAI-29050 | 29 MP | 35mm | 6600 x 4400 | 2.4 |
| B6640 | ON Semi KAI-29050 | 29 MP | 43.3mm | 6600 x 4400 | 4.7 |
| | | | | | |

The Industry Standard

Continuous Process Monitoring/Recording Imperx's patented EIPVR: EtherNet/IP[™] Process Video Recorder

EVENT ANALYSIS

Our comprehensive, yet easy-to-use, view utility allows the user to view recorded events with:

- · User configurable playback speed
- Ability to crop video and save shorter video clips
- Ability to add bookmarks with user notes
- · Automatically polls the video server for new videos
- ActiveX controls included



FEATURES

- Trigger via EtherNet/IP™
- File Server for Unlimited Video Storage
- IEEE-1588 Compliant
- ActiveX Controls
- Optional PoE Ring Light
- Multiple Camera Enclosures



SCAN ME!

RELIABLE CAMERA DESIGN

- Operating Temperature: -40° to +90°C
- MTBF > 660,000 hours
- Supports up to 4 cameras recording simultaneously in either monochrome or color



| | INTERFAC | CE TYPE | |
|-----|----------|---------|-----|
| CLF | СХР | GEV | POE |
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The Best Choice for **High-Performance** Vision Applications

Imperx VCE series of frame grabber cards are professional, state of the art video capture cards, that allow users to view and store in real time mega-pixel video images from Camera Link, SDI and analog video sources onto notebook and desktop computers.

The cards are capable of capturing single or multiple frames, and standard AVI clips from any compliant video source. Each captured frame can be stamped with a user message along with the date and time of capture. The cards offer an easy to use camera configuration and viewer utility, allowing for fast integration of the

SCAN ME!



card into demanding machine vision environments. A full software suite, including drivers, C/C++ SDK complete with sample source code and an application program, is provided with each VCE card.

Imperx leads the frame grabber market and was the first to introduce Camera Link[®], HD-SDI and full analog video streaming to laptop computers. Our laptop and desktop frame grabbers feature "Self-Learn" software, and advancement that eliminated the need for camera configuration files. Contact us at sales@imperx.com and order yours TODAY.



| | | FRAMEGR | ABBER INFO |
|---------------|-------------------------|-----------|---|
| MODEL | FORM FACTOR | BANDWIDTH | INPUT |
| VCE-HDPCle01 | PCIe x 1 Desktop | 2.5 Gbps | HD/SD-SDI, Single BNC with Loop Through Output |
| VCE-HDmPCle01 | Mini PCle x 1 Desktop | 2.5 Gbps | HD/SD-SDI, Single BNC with Loop Through Output |
| VCE-HDEX02 | ExpressCard/34 Laptop | 2.5 Gbps | HD/SD-SDI, Single BNC |
| VCE-HDEX03 | ExpressCard/54 Laptop | 2.5 Gbps | HD/SD-SDI, Single BNC |
| VCE-CLPCle01 | PCIe x 1 Desktop | 2.5 Gbps | Base or Medium Camera Link [®] (HDR/SDR) |
| VCE-CLPCle02 | PCIe x 1 Desktop | 2.5 Gbps | Base or Medium Camera Link [®] (HDR/SDR) |
| VCE-CLPCIe03 | PCIe x 4 Desktop | 10 Gbps | Base or Medium Camera Link [®] (HDR/SDR) |
| VCE-CLPCIe04 | PCIe x 4 Desktop | 10 Gbps | Base, Medium, Full or 80-bit Camera Link [®] (HDR/SDR) |
| VCE-CLEX01 | ExpressCard/54 Laptop | 2.5 Gbps | Base or Medium Camera Link® (HDR/SDR) |
| VCE-CLEX02 | ExpressCard/34 Laptop | 2.5 Gbps | Base Camera Link [®] (HDR/SDR) |
| VCE-ANEX01 | ExpressCard/54 Laptop | 2.5 Gbps | N/A |
| VCE-ANEX02 | ExpressCard/54 Laptop | 2.5 Gbps | N/A |
| VCE-ANEX03 | ExpressCard/34 Laptop | 2.5 Gbps | N/A |
| VCE-PRO-C | Cardbus (PCMCIA) Laptop | N/A | N/A |



Simple Set-up, Easy to Use

Our line of Digital and Analog frame grabbers are designed to work with laptops, PDAs, and other mobile vision systems. All models use industrial components for added reliability, and provide the functionality, performance and versatility required for the most demanding mobile imaging applications. Our frame grabbers are noted for their ease of set-up and use.

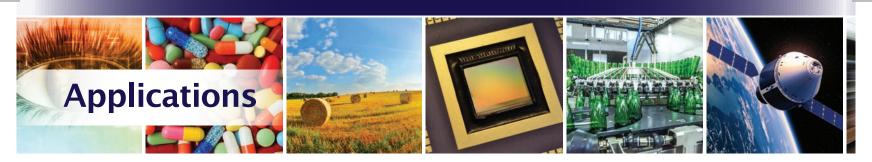
KEY FEATURES

- Available in various form factors including PCIe x1 for desk tops, ExpressCard/54, ExpressCard/34 and PCMCIA for laptops
- Supports Base or Medium Camera Link[®], SD/HD SDI and NTSC/PAL/RS170 interfaces
- PCI Express compliant providing 2.5 Gbps of bandwidth or Cardbus compliant providing 1 Gbps of bandwidth
- Intelligent scatter/gather DMA for fast, efficient use of PCI Express or Cardbus bandwidth and system memory
- Flow-through pipeline architecture for low latency
- Includes many advanced features such as look up tables, gamma correction, histograms, RGB gain/offset with auto-white balance, hex pixel dump, color space conversion, Bayer pattern interpolation, programmable pulse generators, etc.



| | | INPUT TYPE | AND SPECS | | | |
|---------|----|----------------------|-----------|--------------------------|---------|--------|
| HDI-SDI | CL | PCI / PCI EXPRESS | ANALOG | SMPTE 292M 274M 296 M | DESKTOP | LAPTOP |
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www.imperx.com



| ACADEMIA | INSPECTION | PIV |
|-----------------------|-------------------------|-------------------------|
| AERIAL IMAGING | LABORATORY | RAILROAD INSPECTION |
| AEROSPACE | MACHINE TOOLS | RECONNAISSANCE |
| AGRICULTURE | MACHINE VISION | RED LIGHT ENFORCEMEMENT |
| AUTOMATION | MANUFACTURING | RESEARCH |
| AUTOMOTIVE | MEASUREMENT | ROBOTICS |
| BIOSCIENCES | MEDICAL | SEMICONDUCTOR |
| CONSERVATION | MEDICAL RESEARCH | SOLAR PANEL INSPECTION |
| DEFENSE | METROLOGY | STEEL INDUSTRY |
| EARTH DRILLING | MILITARY | SURVEILLANCE |
| ELECTRONICS | NON-DESTRUCTIVE TESTING | THREAT DETECTION |
| FLAT PANEL INSPECTION | OIL & GAS | TRAFFIC MONITORING |
| FLAW DETECTION | PACKAGING | TRANSPORTATION |
| FOOD & PACKAGING | PARCEL SORTING | UAV |
| HEAVY MACHINERY | PHARMACEUTICAL | WEB INSPECTION |

Have you seen our Camera Selector?

Choose The Options To Find The Cameras That Fit Your Needs.







Imperx's Worldwide Presence

ASIA • EUROPE • UNITED STATES • AUSTRALIA

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