ENABLE VISION+

Catalogue for Vision+ Products and Introduction to Soda Vision

2022 / 2023

SODAVISION

ENABLE **VISION+** FOR EVERY INDUSTRY

SODA 10

2012— 2022

BASLER • SWIR VISION SYSTEMS • chromasens Imaging for Professionals • Photoneo Focused on 3D • MATROX IMAGING

ADVANTECH • nerian VISION TECHNOLOGIES • MIKROTRON High-Speed Vision Solutions • Tattile Custom Vision Solutions • BitFlow

GANZ • NORPIX DIGITAL VIDEO RECORDING SOFTWARE • LIPS Sense The World • Watec • PEKAT VISION BRAIN BEHIND THE EYE • MIDOPT

computar • Theia TECHNOLOGIES • µ·TRON • RICOH • Kowa • OPTART

SVLIGHT MACHINE VISION LED SOLUTIONS • METAPHASE LIGHTING TECHNOLOGIES • CCS CREATIVE CUSTOMER SATISFACTION • DCM Sistemes • TMS LITE • LOTS Lighting & Optics Tech Specialist

IP ELEMENTS • ALYSIUM • everpro • icron • sela • KAISER FOTOTECHNIK

OUR MISSION

Our mission is to enable the adaptation of vision+ technologies in industries around the world so that they can build better products, improve the quality of life and make the world a better place for our future generations.

OUR VISION

We will strengthen and expand our values as a trusted partner in vision+ industry and solve application problems given by industry leaders through innovative solutions.

OUR VALUES

Be trustworthy
Be helpful
Innovations at every aspects
Explore purpose beyond profit
Embrace diversity

OUR MOTTO

Work Hard, Dream Big, Be the Best!

CERTIFIED VISION PROFESSIONALS

ABOUT SODA VISION

Soda Vision was born with strong mission to serve the vision+ industry. We are a technology company run by a team of young and energetic executives with strong expertise in machine & computer vision, imaging technologies, AI, and IOT solutions.

We supply imaging software and industrial cameras for the vision+ industry. Over the past 10 years, we established offices around South East Asia and diligently serve thousands of clients mainly in the market of semiconductors, electronics, factory automations, and logistics.

Today, we work closely with various industry leaders in solving their vision+ problem statements. In sync with our vision, Soda Vision aim to be a world-class solution partners in the vision+ technology within the next 10 years.

WHAT IS VISION+ TECHNOLOGY

Computer vision began around the 1960s in universities which were pioneering artificial intelligence. Today, many applications rely on computer vision technology for signal processing and decision making. The field most closely related to computer vision are image processing, image analysis and machine vision.

Machine vision are widely used in the manufacturing industry where images are extracted for the purpose of supporting production process. Although "Vision" is the solution core, many other technologies has evolved to enhance the completeness of a solution.

Putting all these technologies together is where "Vision+" kicks in as the complete solution to all modern vision applications. Besides image processing and industrial cameras, "Vision+" will help you integrate your application with open-source resources, industrial protocol & standards, and the intelligent from all different technology fields.

BE THE BEST

Our people are our greatest strength. All of us in Soda Vision work hard to achieve the very best in every aspect of our work and life and our own field of expertise.

We aim to be the best company to work for in the vision+ industry. We strive to help our clients upgrade their knowledge and understanding in the latest vision+ technology.

Work Hard. Dream Big. Be the Best.
This is our motto.

OUR LOGO

Our logo has our company name lay out orderly on a solid navy blue background which signify deep trust & strong leadership. A light touch of tiffany blue symbolize our young and energetic approach in managing the company.

BRIDGING THE TECHNOLOGY GAP

We work closely with technology leaders in the Vision+ Industry. Taping into our resources could help speed up your understanding of vision+ technology and close the gap better. Our mission? Passing on the technology and cumulative knowledge over the years to you.

CERTIFIED VISION PROFESSIONALS

We equipped our frontiers with extensive knowledges in the Vision+ industry. Almost all of our sales and technical team are certified as vision professionals from A3 Association for Advancing Automation in the USA.

TRUSTED BY TOP COMPANIES

We currently serve more than 1,000 customers and deployed various vision+ systems across the world for industry leaders in their respective field.

FOCUS ON VISION+ TECHNOLOGIES

Our key strategy "Focus on Vision+" helps build our professionalism. A deep understanding of the vision+ eco-system is the answer to accurate technical advice and trust among our clients.

VISION LAB FOR TRIAL & TEST

Vision Lab is our core competency. We build Vision Lab to house the world's best Vision+ technologies. You can find ready-to-test machine vision hardware and solutions in our vision lab. All are welcome to experience our products and testing facilities.

10 YEARS OF SUCCESS & BEYOND

Awarded as the top 40 fastest growing companies in Singapore in the year 2020, we never stop our dream to be world top players with a local touch.

BECAUSE WE ARE YOUR TRUSTED PARTNER IN THE JOURNEY OF EXPLORING VISION+ TECHNOLOGIES.

OUR PRODUCTS, SERVICES & SOLUTIONS

Image courtesy of Basler

Image courtesy of Myutron

FULL RANGE OF VISION+ PRODUCTS

From software to solutions, Soda Vision is your trusted partner in the journey of exploring vision+ technologies in every applications and industries. Our sales and engineers are technically trained on all brands and products in our portfolio. With strong backing from Soda Vision, you will get easy integration, supply stability, and long term support from the very best in this industry.

CUSTOMIZATION IS POSSIBLE

Given there is no "one-size-fits-all" solution, we are here to support you by customizing solutions that meets your requirements and expectations for functionality, quality and price. Start to explore today how we can help you exploit your new competitive advantages over your competitors.

VISION+ SOLUTIONS | VISION+ MODULES | VISION+ GUIDED ROBOTICS

Every applications has their own unique problems statements. We will walk through the process with you from the start to the end, understanding your requirements and proposed the most suitable Vision+ solutions to resolve your pain points.

We design & Integrate vision components into plug-and-play modules. All modules are build and qualified through industrial standard Imatest Master software, giving you the trust & in image quality from sharpness and distortion to colour and illumination.

With the help of machine vision, our solution guides the industrial robot to make decisions and perform automated task in smart factories, warehouse and fulfilment centre.
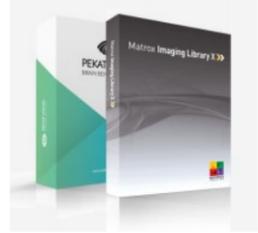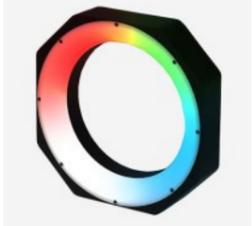
Imaging Software+	Computer+	Frame Grabber+	Cameras+

3D Cameras+	Lens+ & Optics+	Lightings+ & Controllers+	Cables+ & Accessories+

Image courtesy of IP Elements

Image courtesy of Basler

Image courtesy of Photoneo

IMAGING SOFTWARE

IMAGING SOFTWARE+

Matrox Design Assistant X is an integrated development environment (IDE) for Microsoft® Windows® where vision applications are created by constructing and configuring flowcharts instead of writing program code.

Matrox Imaging Library (MIL) X is a software development kit (SDK) for more traditional programmers, featuring functions for image capture, processing, analysis, annotation, display, and archiving. Both software packages employ deep learning technology to classify image content for automated inspection.

Maker	Model	Features
Matrox Imaging	Design Assistant X Development Package Model: DAXWINPU	Development package for Windows®. Includes installation media with integrated development environment (IDE) and on-line documentation. Also includes a single-user USB hardware license key for design-time environment and all run-time packages as well as a Matrox Design Assistant Maintenance registration number
Matrox Imaging	Design Assistant X Run-Time License Model: DXRTM2B2B2B200U	All Matrox Design Assistant packages. Enables all Matrox Design Assistant X steps. Includes physical USB dongle.
Matrox Imaging	Matrox Imaging Library (MIL) X Development Packages Model: MILXWINPU	MIL X development toolkit for Windows®. Contains installation media, a single-user USB hardware license key and MIL Maintenance registration number.
Matrox Imaging	Matrox Imaging Library (MIL) X Run-Time License Model: MXRTM2B2B2B200U	All MIL 10/X packages (as of MIL 10 Processing Pack 3). Includes physical USB dongle.

PEKAT VISION© is a software for industrial visual inspection and quality assurance and is very capable of finding anomalies, detects and classifies defects and checks surface on materials and objects. Thanks to AI and focused-learning algorithms, it has a unique feature of detecting even previously unseen defects.

Modules available:
Unsupervised: Anomaly Detection
Supervised: Surface Detection, Object Detection, Classification, OCR
Always included: Measurement, Mask, Unifier, Image Pre-processing, Code

Maker	Model	Features
Pekat Vision	Modules with Training	One-module, lifetime license.
Pekat Vision	Modules with Training	All modules, lifetime license.
Pekat Vision	Modules without Training	One-module, lifetime license.
Pekat Vision	Modules without Training	All modules, lifetime license.

HIGH SPEED RECORDING

When the speed of processes is too fast for the human eye to capture and the mind to analyse, high speed imaging is important because it enables researchers, scientists, and engineers to visualize and study movements that cannot be viewed adequately in real time. Soda Vision offers high speed digital video recording software and solutions for seamless integration.

Brand	Type	Features
Norpix	StreamPix Lite	Basic version of StreamPix with a subset of features from the full version, no modules available. For use with single USB3 or GigE camera.
Norpix	StreamPix S	Single camera version, for use with single USB3 or GigE camera.
Norpix	StreamPix M	Multi camera version, for use with up to 7 cameras. Supports camera link and coaxpress cameras.
Norpix	TroublePix	For easy troubleshooting application. Single camera version, for use with single USB3 or GigE camera.
Mikrotron	Director2 Software	Highspeed recording solution for Mikrotron MotionBLITZ camera series.

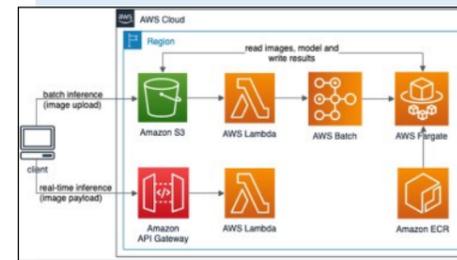Image courtesy of https://norpix.com

OPENCV

OpenCV (Open Source Computer Vision Library) is an open source computer vision and machine learning software library. OpenCV was built to provide a common infrastructure for computer vision applications and to accelerate the use of machine perception in the commercial products. Along with well-established companies like Google, Yahoo, Microsoft, Intel, IBM, Sony, Honda, & Toyota that employ the library, Soda Vision is capable of implementing OpenCV algorithms in our vision applications.

Brand	Type	Features
OpenCV	Computer Vision Library	> 2500 optimized algorithms C++, Python, Java and MATLAB interfaces Supports Windows, Linux, Android and Mac OS OpenCV 4.5.0 and higher are licensed under Apache 2 License. OpenCV 4.4.0 and lower are licensed under 3-clause BSD license.

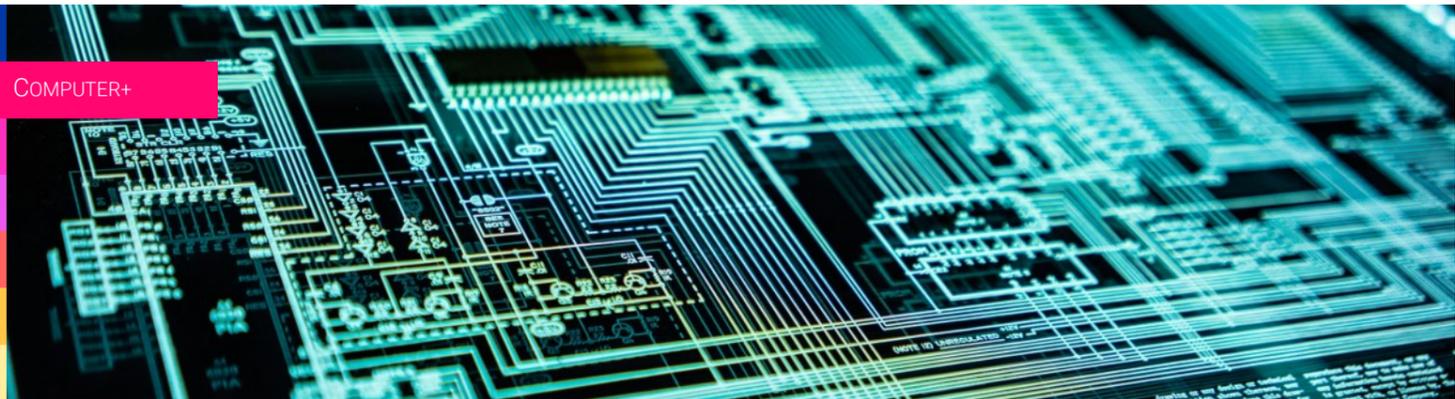Image courtesy of https://opencv.org

CLOUD & IOT SOLUTIONS

AWS offers Internet of Things (IoT) services and solutions to connect and manage billions of devices. Collect, store, and analyse IoT data for industrial, consumer, commercial, and automotive workloads. Moreover, AWS brings artificial intelligence (AI), machine learning (ML), and IoT together to make devices more intelligent. Talk to Soda Vision and explore how we can integrate Vision+ technology with Cloud IoT services to help your business scale, move quickly, and save resources.

Brand	Type	Features
AWS	AWS IoT Services - Device software	FreeRTOS, IoT Greengrass, IoT ExpressLink, IoT Edukit.
AWS	AWS IoT Services - Connectivity and control services	IoT Core, IoT Device Defender, IoT Device Management
AWS	AWS IoT Services - Analytic services	IoT SiteWise, IoT Events, IoT Analytics, IoT TwinMaker
Advantech	WISE-Pass Industrial IoT Platform	Advantech's WISE-PaaS industrial IoT cloud platform integrates edge to cloud software services seamlessly. It provides a low-code environment to accelerate application development while easing use for end users.

Image courtesy of https://aws.amazon.com

INDUSTRIAL COMPUTERS

COMPUTER+

The World's No.1 Industrial Edge Computers

Advantech is a leading provider of industrial PCs, offering diverse edge computers with high performance and rugged design. With almost 40-year experience in the global IPC market, Advantech has diverse reliable technologies and solutions for implementing edge computing, IoT and AIoT, that can provide customers with application-oriented products.

Brand	Model	Type	Features
Advantech	IPC-220	Compact Industrial	Compact Industrial Computer System with 6th/7th Gen Intel® Core™ i CPU Socket (LGA 1151). Comes with 2 x PCIE slots
Advantech	IPC-240	Compact Industrial	Compact Industrial Computer System with 6th/7th Gen Intel® Core™ i CPU Socket (LGA 1151) Comes with 4 x PCIE slots
Advantech	UTC-115HP	Touch Computer	15.6" Ubiquitous Touch Computer UTC-115H with Intel® Core™ i5-8365UE

Machine vision for the factory floor

Matrox® 4Sight EV6 is an industrial computer built for machine vision on the factory floor. Part of a long and solid history, the Matrox 4Sight EV6 is an evolution of its immediate predecessor, integrating a seventh-generation quad-core Intel® Core™ processor for ever more demanding multi-camera applications.

A fanless design with multiple ports for GigE Vision® and USB3 Vision® cameras make the Matrox 4Sight EV6 right at home in any production facility, keeping an eye on a single line or many production lines. Matrox 4Sight EV6 vision controllers are supported by two comprehensive software platforms: Matrox Design Assistant X, and Matrox Imaging Library (MIL) X. Each software offers tools for video capture, analysis, classification, location, measurement, reading, verification, communication, and I/O operations so that engineers and technicians can quickly configure and deploy machine vision applications to Matrox 4Sight EV6 vision controllers.

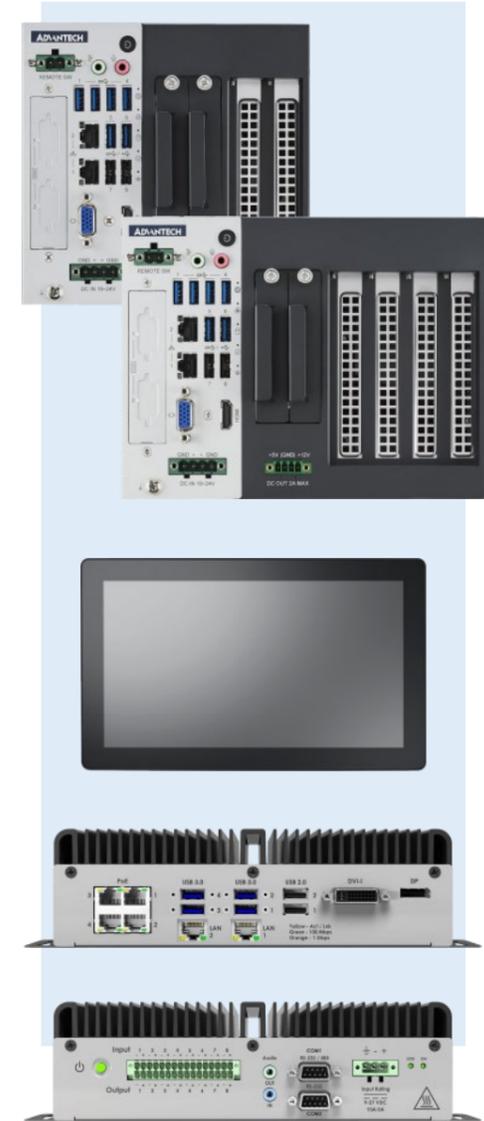| Brand	Model	Type	Features
Matrox Imaging	EV6I5M16DA+	Compact Fanless	Matrox 4Sight EV6 integrated unit with Intel CoreTM i5-7442EQ, 16GB DDR4 RAM, 64GB M.2 MLC SSD, Microsoft Windows 10 IoT Enterprise. Pre-loaded with Matrox Design Assistant X design-time and run-time environments. Includes installation media with Matrox Design Assistant X IDE and a maintenance registration number. Fully pre-licensed for Matrox Design Assistant X.

EMBEDDED VISION KIT

Basler's embedded vision prototyping kits put you on the fast track to your embedded vision solution. Standard compliance, USB 3.0, MIPI CSI-2 and LVDS-based interfaces and the pylon Camera Software Suite make developers' work easier. The Embedded Vision Processing Kit is already designed for industrial applications and can therefore be used in series production.

Image courtesy of https://variscite.com

Brand	Model	Features
Basler	daA4200-30mci-MX8MM-VAR	Embedded Vision kit Processor: NXP i.MX 8M Mini Camera: daA4200-30mci (13MP)
Basler	daA4200-30mci-JNANO-NVDK	Embedded Vision kit Processor: NVIDIA Jetson Nano Camera: daA4200-30mci (13MP)
Basler	daA4200-30mci-JNANO-NVDK-AIA	Embedded Vision kit with AWS Cloud services Processor: NVIDIA Jetson Nano Camera: daA4200-30mci (13MP)
Basler	Embedded Cameras	From 1.2MP to 13MP Available in USB 3.0 and BCON for MIPI interfaces Available in No-mount, S-mount, CS-mount

CLOUD COMPUTING

Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. Instead of buying, owning, and maintaining physical data centres and servers, you can access technology services, such as computing power, storage, and databases, on an as-needed basis from a cloud provider.

Benefits of cloud computing

You can deploy technology services in a matter of minutes, and move from idea to implementation several orders of magnitude faster than before. This gives you the freedom to experiment, test new ideas to differentiate customer experiences, and transform your business.

The cloud allows you to trade fixed expenses (such as data centers and physical servers) for variable expenses, and only pay for IT as you consume it. Plus, the variable expenses are much lower than what you would pay to do it yourself because of the economies of scale. With the cloud, you can expand to new geographic regions and deploy globally in minutes.

Image courtesy of https://linkedin.com

IOT WIRELESS I/O MODULES

WISE-4000 Series IoT Wireless I/O Modules is built for the IoT Generation. Facing the IoT era, planners inevitably encounter the question of "how to get various devices or equipment networked". They need to find the most appropriate way to transmit data, meet the requirements of durability and cost, and maintain the flexibility of the framework to facilitate easier network expansion. With that, IOT is the solution to network various equipment.

Brand	Type	Model	Features
Advantech	WLAN	WISE-4012	4AI/2DO 2.4G WiFi IoT Wireless I/O
Advantech	WLAN	WISE-4050	4DI/4DO 2.4G WiFi IoT Wireless I/O
Advantech	WLAN	WISE-4060	4DI/4Relay 2.4G WiFi IoT Wireless I/O
Advantech	Industrial LoRaWAN	WISE-4610	LoRaWAN IoT Wireless Modular I/O
Advantech	Industrial LoRaWAN	WISE-4610P	Advanced LoRaWAN IoT Wireless Modular I/O
Advantech	Industrial LoRaWAN	WISE-S614	4AI/4DI Wireless Modular I/O with M12 Connectors

USB 3.0 / GIGE PC CARDS

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FRAME GRABBER+

Image courtesy of Basler

The PCIE-1672/PCIE-1674 PoE (Power over Ethernet) PCIE series is PCI express Network Interface Card which supports 2 or 4 independent 10/100/1000BaseT(X) 802.3af (PoE) compliant Ethernet ports. With 12 VDC AT/ATX power input, the PCIE-1672/PCIE-1674 can boost then provides up to 15.4 watts at 48 VDC power to maximum 2 or 4 x PoE ports on each module. It allows power to be supplied to connected devices, such as PoE-based GigE cameras in machine vision inspection systems, without the need to use separate PoE injectors for those applications. The PCIE-1672/PCIE-1674 is ideally designed for scientific research instrumentations, Medical Research Instrumentations, Machine Vision System, which can also benefit from a scalable Gigabit backbone construction with Power-over-Ethernet support.
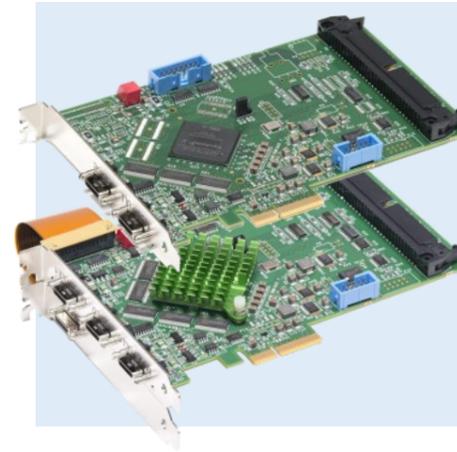
Brand	Interface	Model	Port	Features
Advantech	GigE / PoE	PCIE-1672E-AE	2-channel	Intel® server-grade GbE Mac Controller. Supports Jumbo Frame 9KB.
Advantech	GigE / PoE	PCIE-1674E-AE	4-channel	Intel® server-grade GbE Mac Controller. Supports Jumbo Frame 9KB.
Advantech	10 GigE	PCIE-1181	1-channel	Intel server-grade X550-AT2 10GbE MAC+PHY Ethernet Controller
Advantech	10 GigE	PCIE-1182	2-channel	Intel server-grade X550-AT2 10GbE MAC+PHY Ethernet Controller

PCE-USB4 is a 4-port PCIe x4 expansion card aimed at industrial imaging applications. Featuring four independent Renesas μPD720202 USB 3.0 host controllers, a Gen 2 PCI Express® x4 interface, and a per-port bandwidth of 5 Gbps when operating four ports simultaneously, PCE-USB4 delivers maximal per-port performance. PCE-USB4 features four USB 3.0 ports (for expansion, PCE-USB8 features eight USB 3.0 ports) with 1500 mA current to ensure stable power for external USB devices. PCE-USB4 is a high-bandwidth industrial-power expansion card designed for machine vision, factory automation, and medical applications, as well as any other applications that require high data transfer speeds

Brand	Interface	Model	Port	Features
Advantech	USB 3.0	PCE-USB4-00A1E	4-channel	Four USB 3.0 host controllers, Renesas μPD720202
Advantech	USB 3.0	PCE-USB8-00A1E	8-channel	Four USB 3.0 host controllers, Renesas μPD720202
Advantech	USB 3.0	PCIE-1154	4-channel	Four USB 3.0 host controllers, Fresco FL1100
Advantech	USB 3.0	PCIE-1158	8-channel	Four USB 3.0 host controllers, Fresco FL1100
Basler	USB 3.0	2200000084	2-channel	One USB 3.0 host controller, Renesas μPD720202
Basler	USB 3.0	2200001009	2-channel	USB 3.1 host controller, Asmedia ASM3142

CAMERA LINK FRAME GRABBERS

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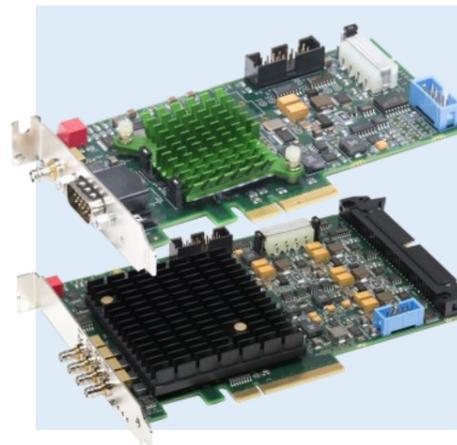/product-category
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The Camera Link standard was introduced in 2000 consisting of three data transfer speeds, Base, Medium and Full. CL Base is a single cable solution offering up to 255 MB/S. CL Medium is a dual cable solution offering up to 510 MB/S. CL Full is a dual cable solution offering up to 680 MB/S. Later a fourth standard was added, CL 80-bit which is a dual cable solution offering up to 850 MB/S.

Brand	Interface	Model	Features
BitFlow	Camera Link	Axion 1XE	PoCL, supports 1 CL-full camera, Supports 85MHz
BitFlow	Camera Link	Axion 2XE	PoCL, supports 2 CL-full camera, Supports 85MHz
BitFlow	Camera Link	Axion 1XB	PoCL, supports 1 CL-Base camera
BitFlow	Camera Link	Axion 2XB	PoCL, supports 2 CL-Base camera
BitFlow	Camera Link	Axion 4XB	PoCL, supports 4 CL-Base camera
Basler	Camera Link	microEnable 5 marathon ACL	PoCL, supports 2 CL camera
Basler	Camera Link	microEnable 5 marathon VCL	PoCL, supports 2 CL camera, Custom FPGA

CXP-12 FRAME GRABBERS

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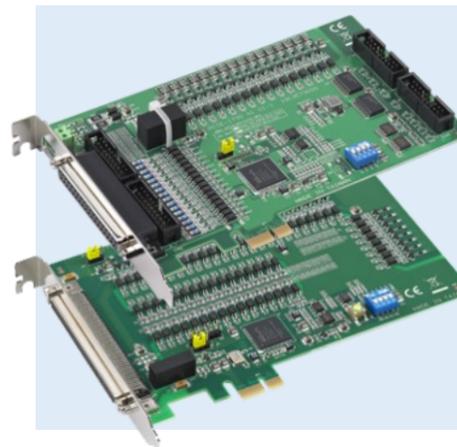for digital catalogue
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CoaXPress (CXP) is a simple yet powerful standard for moving high speed serial data from a camera to a frame grabber. In 2011, CXP6 (revision 1.1) was ratified and images are captured at speeds of up to 6.25 Gigabits/Second (Gb/S). In 2019, CXP12 (revision 2.0) was adopted effectively doubling the speeds to 12.5 Gb/s per link and adding a host of new features. The CXP standard opens the door to applications where cable cost, routing requirements, and long distances have prevented the move to high resolution, high speed digital cameras. In many cases, existing coaxial infrastructure can be repurposed for CXP at a relatively low installation costs.

Brand	Interface	Model	Features
BitFlow	CXP-12	Claxon CXP1	PoCXP, supports 1-link CXP-12 camera
BitFlow	CXP-12	Claxon CXP2	PoCXP, supports 2-link CXP-12 camera
BitFlow	CXP-12	Claxon CXP4	PoCXP, supports 4-link CXP-12 camera
Basler	CXP-6	microEnable 5 marathon ACX-QP	PoCXP, supports 4-link CXP-6 camera
Basler	CXP-6	microEnable 5 marathon VCX-QP	PoCXP, supports 4-link CXP-6 camera, Custom FPGA
Basler	CXP-12	imaWorx CXP-12 Quad	PoCXP, supports 4-link CXP-12 camera

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DIGITAL I/O CARDS

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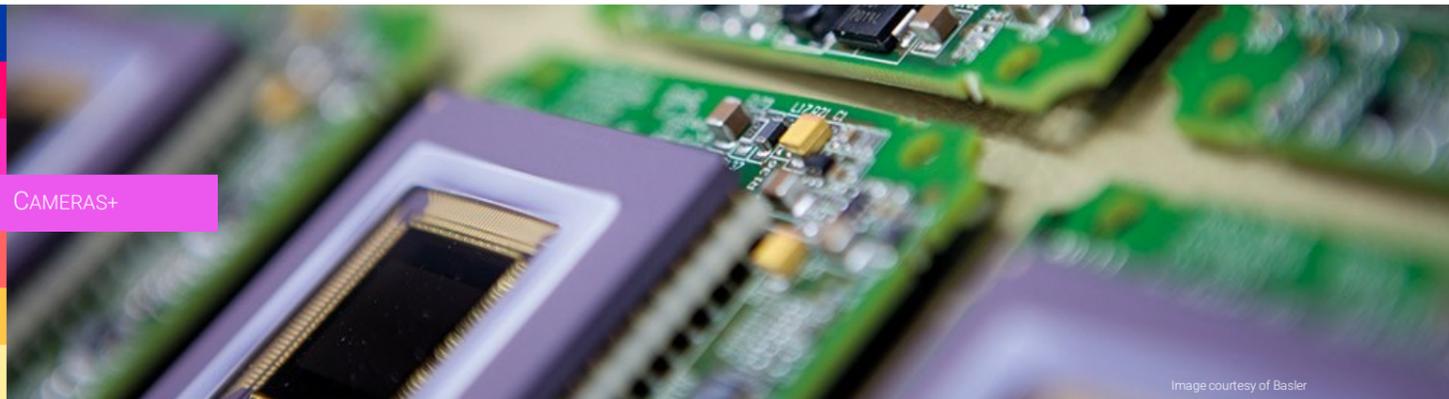/product-category
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Machine automation applications typically require high-performance digital input, digital output, and relay output cards for integrating and managing peripheral devices. Advantech provides a whole series of digital I/O cards with a variety of functions to meet all the digital I/O needs of your test and control applications, including automotive design, industrial factory automation, and machine control.

Brand	Interface	Model	Features
Advantech	Digital I/O	PCIE-1730-AE	32-ch TTL and 32-ch Isolated Digital I/O PCIE Card
Advantech	Digital I/O	PCIE-1756-AE	64-ch Isolated Digital I/O PCIE Card
Advantech	Digital I/O	USB-4761-BE	8-ch Relay and 8-ch Isolated Digital Input USB Module

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USB 3.0 / GIGE AREA CAMERAS

Cameras+

Image courtesy of Basler

Basler ace series - High quality and performance, low list prices and small cases with 29 mm x 29 mm as well as 30 x 40 mm footprints: This combination makes the ace one of the top-selling cameras, with thousands of satisfied customers. With more than 130 models, the ace series is the largest camera series on the industrial image processing market. The table below shows only monochrome models. Replace the last character "m" to "c" for colour models.

Brand	Model (USB 3.0)	Model (GIGE)	Res.	Res.	Shutter	Sensor
Basler	acA1300-200um	acA1300-75gm	1.3 MP	1280 x 1024	Global	PYTHON1300
Basler	acA1440-220um	acA1440-73gm	1.6 MP	1440 x 1080	Global	IMX273
Basler	acA1920-40um	acA1920-40gm	2.3 MP	1920 x 1200	Global	IMX249
Basler	acA2040-55um	acA2040-35gm	3 MP	2048 x 1536	Global	IMX265
Basler	acA2500-14um	acA2500-14gm	5 MP	2590 x 1942	Rolling	MT9P031
Basler	acA2440-35um	acA2440-20gm	5 MP	2448 x 2048	Global	IMX264
Basler	acA3088-57um	acA3088-16gm	6 MP	3088 x 2064	Global	IMX178
Basler	acA4096-30um	acA4096-11gm	9 MP	4096 x 2160	Global	IMX267
Basler	acA4024-29um	acA4024-8gm	12 MP	4024 x 3036	Rolling	IMX226
Basler	acA4112-20um	acA4112-8gm	12 MP	4096 x 3000	Global	IMX304
Basler	acA5472-17um	acA5472-5gm	20 MP	5472 x 3648	Rolling	IMX183

Basler ace 2 Series - Welcome to the next ace generation! The table below shows only BAS & monochrome models. Replace "BAS" to "PRO" for additional features, and "m" to "c" for colour models.

Brand	Model (USB 3.0)	Model (GIGE)	Res.	Res.	Shutter	Sensor
Basler	a2A1920-160umBAS	a2A1920-51gmBAS	2.3 MP	1920 x 1200	Global	IMX392
Basler	a2A2448-75umBAS	a2A2448-23gmBAS	5 MP	2448 x 2048	Global	IMX547
Basler	a2A2590-60umBAS	a2A2590-22gmBAS	5 MP	2592 x 1944	Rolling	IMX334ROI
Basler	a2A2600-64umBAS	a2A2600-20gmBAS	5.6 MP	2600 x 2160	Global	GMAX2505
Basler	a2A2840-48umBAS	a2A2840-14gmBAS	8 MP	2840 x 2840	Global	IMX546
Basler	a2A3840-45umBAS	a2A3840-13gmBAS	8.3 MP	3840 x 2160	Rolling	IMX334
Basler	a2A4200-40umBAS	a2A4200-12gmBAS	9.1 MP	4200 x 2160	Global	GMAX2509
Basler	a2A4096-30umBAS	a2A4096-9gmBAS	12.3 MP	4096 x 3000	Global	IMX545
Basler	a2A5320-23umBAS	a2A5320-7gmBAS	16.1 MP	5328 x 4608	Global	IMX542
Basler	a2A4504-18umBAS	a2A4504-5gmBAS	20.2 MP	4504 x 4504	Global	IMX541
Basler	a2A5328-15umBAS	a2A5328-4gmBAS	24.4 MP	5328 x 4608	Global	IMX540

CXP-12 AREA CAMERAS

Basler boost Series comes with CoaxPress 2.0 Interface for High Resolutions and Bandwidths. CoaXPress 2.0 (CXP-12) offers very high bandwidth: with up to 12.5 Gbps per cable, currently one of the fastest interfaces on the market.

Brand	Model	Resolution	Resolution	Sensor	FPS	Remarks
Basler	boA4096-93cm	9 MP	4096 x 2168	IMX 255	93 fps	C / F mount
Basler	boA4112-68cm	12 MP	4096 x 3000	IMX 253	68 fps	C / F mount
Basler	boA4500-45cm	20 MP	4500 x 4500	XGS 20000	45 fps	C / F mount
Basler	boA4504-100cm	20 MP	4504 x 4504	IMX 531	100 fps	C / F mount
Basler	boA5320-150cm	16.1 MP	5320 x 3032	IMX 532	150 fps	C / F mount
Basler	boA5328-100cm	24.4 MP	5328 x 4608	IMX 530	100 fps	C / F mount
Basler	boA6500-36cm	32.4 MP	6580 x 4935	XGS 32000	35 fps	C / F mount
Basler	boA8100-16cm	44.7 MP	8192 x 5460	XGS 45000	15 fps	C / F mount

LINE SCAN CAMERAS

Line scan cameras are mainly used for object inspection on conveyor belts because they offer a high-resolution view of endless material and fast moving objects. The Chromasens range of line scan cameras consists of different models for a wide variety of tasks and requirements.

Brand	Model	Resolution	Interface	Speed
Chromasens	allPIXA evo 15K CxP4 Color Z	15,360 x 3 pixel	Quad CXP-12	68.4 kHz
Chromasens	allPIXA evo 15K DXGE Color	15,360 x 3 pixel	Dual 10GIGE	49.5 kHz
Chromasens	allPIXA wave 15k	15,360 x 3 pixel	Camera LinkFull	18.38 kHz
Chromasens	allPIXA evo 10K CxP4 Color Z	10,240 x 3 pixel	Quad CXP-12	68.4 kHz
Chromasens	allPIXA evo 10K DXGE Color	10,240 x 3 pixel	Dual 10GIGE	68.4 kHz
Chromasens	allPIXA wave 10k	10,240 x 4 pixel	Camera LinkFull	25.33 kHz

SWIR CAMERAS

Acuros® CQD® SWIR Cameras are designed for high resolution broadband SWIR imaging, and come equipped with single-stage TECs for lower noise operation and greater image stability. Extended SWIR model operates at range 350nm to 2000 nm.

Chromasens allPIXA SWIR line scan camera offers an uncooled sensor with resolutions 512 or 1k and pixel sizes 25 µm and 12.5 µm respectively, high sensitivity and a line frequency of 40 kHz.

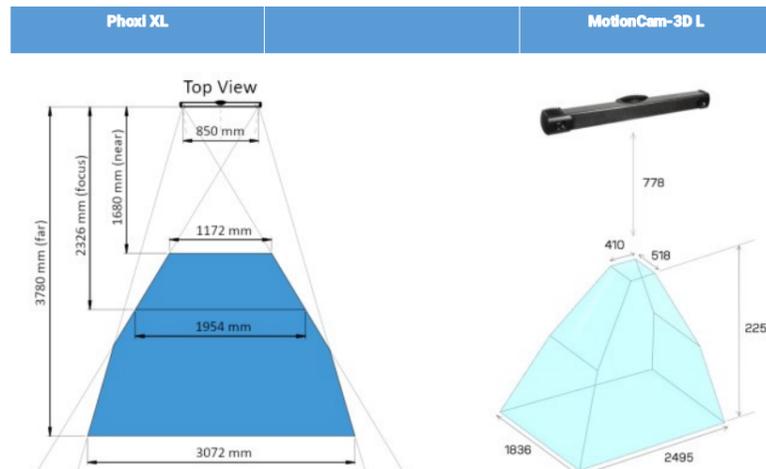| Brand	Model	Resolution	Wavelength	Mount
SWIR VS	Acuros-0640-GIGE-001	VGA (640 x 512)	400 - 1700 nm	C
SWIR VS	Acuros-060-USB3-001	VGA (640 x 512)	400 - 1700 nm	C
SWIR VS	Acuros-1280-GIGE-001	1.3MP (1280 x 1024)	400 - 1700 nm	C / M42 / F
SWIR VS	Acuros-1280-USB3-001	1.3MP (1280 x 1024)	400 - 1700 nm	C / M42 / F
SWIR VS	Acuros-1920-GIGE-001	2.0MP (1920 x 1080)	400 - 1700 nm	C / M42 / F
SWIR VS	Acuro-1920-USB3-001	2.0MP (1920 x 1080)	400 - 1700 nm	C / M42 / F
Chromasens	allPIXA SWIR 512 GigE / CL	512 x 1 pixel	950 - 1700 nm	C
Chromasens	allPIXA SWIR 1K GigE / CL	1,024 x 1 pixel	950 - 1700 nm	C

STRUCTURED LIGHT 3D CAMERAS

3D CAMERAS+

Photoneo Industrial 3D scanner is built for the most demanding machine vision tasks. Phoxi scanners has the largest scanning volume, high resolution and accuracy, IP65 camera body with PoE & 24V power options. From small PCB board to large bin picking applications, Phoxi scanner is the go-to choice for vision engineers.

Brand	Model	Resolution	Scanning Range	XY Resolution	Point-to-point Distance
Photoneo	Phoxi XS	3.2M	161—205 mm	35 um	55 um
Photoneo	Phoxi S	3.2M	384—520 mm	50 um	174 um
Photoneo	Phoxi M	3.2M	458—1118 mm	100 um	286 um
Photoneo	Phoxi L	3.2M	870—2150 mm	200 um	524 um
Photoneo	Phoxi XL	3.2M	1680—3780 mm	500 um	927 um

Brand	Model	Resolution	Scanning Range	Accuracy	Point Size
Photoneo	MotionCam-3D S	3.2M	366—558 mm	< 0.300 mm	0.37 mm @z = 442 mm
Photoneo	MotionCam-3D S+	3.2M	630—1574 mm	<1.000 mm	0.76 mm @z = 900 mm
Photoneo	MotionCam-3D M	3.2M	497—939 mm	<0.050 mm	0.55 mm @z = 650 mm
Photoneo	MotionCam-3D M+	3.2M	630—1574 mm	< 0.600 mm	0.76 mm @z = 900 mm
Photoneo	MotionCam-3D L	3.2M	778—3034 mm	< 1.250 mm	1.05 mm @z = 1239 mm

Image courtesy of https://photoneo.com

Phoxi XL		MotionCam-3D L

Top View

850 mm
2326 mm (focus)
1680 mm (near)
3780 mm (far)
1172 mm
1954 mm
3072 mm

778
410 518
1836 2495
2256

LINE SCAN 3D CAMERAS

Matrox® AltiZ is a series of high-fidelity 3D profile sensors. Each sensor features a dual-camera single-laser design that greatly lessens the scanning gaps often encountered at critical surface junctures because of optical occlusions. Unique algorithms running inside the sensor automatically generate various types of reliable 3D data—individual profiles, depth maps, or point clouds—obtained by smartly combining or selecting the pixel data from the two integrated image sensors, which is automatically sampled for a constant horizontal resolution.

Brand	Model	Laser	XY Range	XY Resolution	Z Range	Z Resolution
Matrox	AZ1D4SR	Red 660nm	55—75 mm	38 um	70 mm	4—8 um
Matrox	AZ1D4SB	Blue 405nm	55—75 mm	38 um	70 mm	4—8 um
Matrox	AZ1D4MR	Red 660nm	85—165 mm	82 um	225 mm	9.5—34 um
Matrox	AZ1D4LR	Red 660nm	110—310 mm	157 um	385 mm	10—89 um

STEREO 3D CAMERAS

With up to 125 fps and over 70 million 3D points per second, Scarlet offers by far the fastest 3D measurement rate in the machine vision market. In addition, Scarlet achieves an excellent resolution of up to 5 megapixels in camera and depth image.

Scarlet combines 3D stereo camera and image processing in one device. Whether for static environments, or hard and critical real-time applications in dynamic environments, Scarlet 3D depth camera provides you with exactly the image and depth data you need for your machine vision application.

Brand	Model	Series	Resolution	Lens	Color	Baseline	Features
Nerian	10140	Scarlet 3D	5MP	Incl.	Mono	10 cm	IP67 / Up to 120fps
Nerian	10141	Scarlet 3D	5MP	Incl.	Color	25 cm	IP67 / Up to 120fps
Nerian	10150	Scarlet 3D	5MP	Incl.	Mono	10 cm	IP67 / Up to 120fps
Nerian	10151	Scarlet 3D	5MP	Incl.	Color	25 cm	IP67 / Up to 120fps

TOF COLOR 3D CAMERAS

Basler blaze Time-of-Flight camera offers precise 3D imaging in real time thanks to Sony's DepthSense™ sensor technology and onboard depth image processing.

The Basler blaze industrial 3D camera operates on the pulsed Time-of-Flight principle. Its laser diodes work in the NIR range (940 nm), generating 2D and 3D data in one shot with a multipart image, incorporating 3D point cloud, intensity image, range map and confidence map.

The Basler blaze offers VGA resolution, high precision and accuracy, plus powerful features at an attractive price, making the Basler blaze ideal for a wide range of 3D vision applications in logistics and factory automation.

Brand	Model	Resolution	Range	Accuracy	Frame Rate
Basler	Blaze-101	VGA (640 x 480)	0 m —10 m	±5 mm	30 fps

FIXED FOCAL LENS

Image courtesy of Computar

LENS+ & OPTICS+

The MPW3 series features ultra-low distortion machine vision lens series with fixed focal length range from 5mm to 75mm and a resolution of 6 Megapixel 2/3" optimized for sensors and applications for the highest demands. These C-mount lenses are lightweight and have a very compact design.

Brand	Model	Focal Length	Resolution	Image Circle	Distortion
Computar	M0528-MPW3	5mm	6MP	2/3"	0.03% @ 2/3"
Computar	M0828-MPW3	8mm	6MP	2/3"	-1.8% @ 2/3"
Computar	M1228-MPW3	12mm	6MP	2/3"	-0.10% @ 2/3"
Computar	M1628-MPW3	16mm	6MP	2/3"	0.47% @ 2/3"
Computar	M2528-MPW3	25mm	6MP	2/3"	0.77% @ 2/3"
Computar	M3528-MPW3	35mm	6MP	2/3"	0.06% @ 2/3"
Computar	M5028-MPW3	50mm	6MP	2/3"	0.00% @ 2/3"
Computar	M7528-MPW3	75mm	6MP	2/3"	0.33% @ 2/3"

The MPZ series featuring super high-resolution operation with precise accuracy. They have good resolution from INF to MOD due to floating design, vibration resistance up to 5G, and suites image circle up to 16mm diameter.

Brand	Model	Focal Length	Resolution	Image Circle	Distortion
Computar	V0826-MPZ	8mm	20MP	1"	-0.8% @ 1"
Computar	V1226-MPZ	12mm	20MP	1"	0.0% @ 1"
Computar	V1624-MPZ	16mm	20MP	1"	0.0% @ 1"
Computar	V2520-MPZ	25mm	20MP	1"	0.0% @ 1"
Computar	V3522-MPZ	35mm	20MP	1"	0.0% @ 1"
Computar	V5024-MPZ	50mm	20MP	1"	0.0% @ 1"
Computar	V7531-MPZ	75mm	20MP	1"	0.0% @ 1"

The MPT Series is a compact 45MP, 1.4" C-Mount Lens Series engineered to optimize the capabilities of the latest industrial CMOS sensors. The 1.4" Ultra-high resolution Machine Vision Lenses are ultra-low distortion in a compact design.

Brand	Model	Focal Length	Resolution	Image Circle	Distortion
Computar	F1228-MPT	12mm	45MP	1.4"	0.13% @ 1.4"
Computar	F1628-MPT	16mm	45MP	1.4"	0.06% @ 1.4"
Computar	F2524-MPT	25mm	45MP	1.4"	0.06% @ 1.4"
Computar	F3526-MPT	35mm	45MP	1.4"	0.01% @ 1.4"
Computar	F5026-MPT	50mm	45MP	1.4"	-0.03% @ 1.4"

USB-MOTORIZED LENS

New concept motorized lenses, enable power supply & control through USB or I2C connection. Stepper motors realizes precise focus control and high repeatability, easy-to-install by free control software, suitable for large format 1" sensor (IMX183).

Brand	Model	Focal Length	Resolution	Image Circle	Mount
Computar	VL0826U-MPZ	8mm	20MP	1"	C
Computar	VL1226U-MPZ	12mm	20MP	1"	C
Computar	VL1624U-MPZ	16mm	20MP	1"	C
Computar	VL2520U-MPZ	25mm	20MP	1"	C
Computar	VL3522U-MPZ	35mm	20MP	1"	C
Computar	VL5024U-MPZ	50mm	20MP	1"	C
Computar	VL7531U-MPZ	75mm	20MP	1"	C

LINE SCAN TELECENTRIC LENS

Telecentric lens for large format sensor at very high NA. Excellent uniformity of brightness and resolution, comes with adjustable iris.

Brand	Model	Mag. / WD	Resolution	Image Circle	Mount
Myutron	LSTL035H-F	0.35X / 202 mm	11.5 um	48mm dia.	F/M42
Myutron	LSTL05H-F	0.5X / 202 mm	8.0 um	48mm dia.	F/M42
Myutron	LSTL10H-F	1.0X / 113 mm	4.3 um	44mm dia.	F
Myutron	LSTL15H-F	1.5X / 109 mm	3.5 um	44mm dia.	F
Myutron	LSTL20H-F	2.0X / 109 mm	2.9 um	44mm dia.	F
Myutron	LSTL022T-F	0.22X / 202 mm	18.3 um	29mm dia.	F
Myutron	LSTL0275T-F	0.275X / 202 mm	14.7 um	29mm dia.	F
Myutron	LSTL0366T-F	0.366X / 202 mm	11 um	29mm dia.	F
Myutron	LSTL03TW-F	0.3X / 148.1 mm	22.4 um	28.2mm dia.	F
Myutron	LSTL055TW-F	0.55X / 161 mm	6.33 um	30.8mm dia.	F
Myutron	LSTL078TW-F	0.78X / 125.3 mm	8.4 um	28.2mm dia.	F

SWIR TELECENTRIC LENS

Suitable for SWIR image sensor up to 1", our SWIR telecentric lens is specially design to transmit SWIR 950nm~1800nm. It is possible to capture differences and defects that cannot be seen in visible ray.

Brand	Model	Mag. / WD	Resolution	Image Circle	Features
Myutron	FTV10C-110SW	1.0X / 110 mm	10.3 um	1.1"	C mount / Coaxial
Myutron	FTV20C-110SW	2.0X / 110 mm	8.4 um	1.1"	C mount / Coaxial
Myutron	FTV30C-110SW	3.0X / 110 mm	7.8 um	1.1"	C mount / Coaxial
Myutron	FTV40C-110SW	4.0X / 110 mm	7.3 um	1.1"	C mount / Coaxial

LED LIGHTINGS

Image courtesy of Metaphase Technologies

LIGHTINGS+ & CONTROLLERS+

SV Light is the name for best price performance LED lighting solutions for machine vision industry. Our components are strategically sourced and engineered to meet stringent and high demand industry standard.

All SV Lights are powered by 24 VDC input. To select different wavelength, replace the "W" with the following short code: W (White), R (Red 630nm), G (Green 525nm), B (Blue 470nm), IR850 (850nm), IR940 (940nm), UV365 (365nm), UV375 (375nm).

Brand	Model	Type	Lighting Area	Features
SV Light	SVL-BAR-RX3-00-080-3-W	3-Row Bar Light	17 x 80 mm	Economical
SV Light	SVL-BAR-RX3-00-120-3-W	3-Row Bar Light	17 x 120 mm	Economical
SV Light	SVL-BAR-RX3-00-160-3-W	3-Row Bar Light	17 x 160 mm	Economical
SV Light	SVL-BAR-RX3-00-200-3-W	3-Row Bar Light	17 x 200 mm	Economical
SV Light	SVL-BAR-RX6-00-080-3-W	6-Row Bar Light	26 x 80 mm	Wider FOV coverage
SV Light	SVL-BAR-RX6-00-120-3-W	6-Row Bar Light	26 x 120 mm	Wider FOV coverage
SV Light	SVL-BAR-RX6-00-160-3-W	6-Row Bar Light	26 x 160 mm	Wider FOV coverage
SV Light	SVL-BAR-RX6-00-200-3-W	6-Row Bar Light	26 x 200 mm	Wider FOV coverage
SV Light	SVL-BAC-HS4-00-050-X-W	Back Light	50 x 50 mm	For Measurement
SV Light	SVL-BAC-HS4-00-075-X-W	Back Light	75 x 75 mm	For Measurement
SV Light	SVL-BAC-HS4-00-100-X-W	Back Light	100 x 100 mm	For Measurement
SV Light	SVL-BAC-HS4-00-120-X-W	Back Light	120 x 120 mm	For Measurement
SV Light	SVL-COB-00-040-X-W	Coaxial Box	48 x 48 mm	Smooth & Even
SV Light	SVL-COB-00-070-X-W	Coaxial Box	70 x 70 mm	Smooth & Even
SV Light	SVL-COB-00-100-X-W	Coaxial Box	100 x 100 mm	Smooth & Even
SV Light	SVL-RIN-SW-00-050-2-W	Ring Light, 0 Deg	Outer Dia. 54 mm	Bright Field
SV Light	SVL-RIN-SW-00-070-3-W	Ring Light, 0 Deg	Outer Dia. 70 mm	Bright Field
SV Light	SVL-RIN-SW-00-090-4-W	Ring Light, 0 Deg	Outer Dia. 92 mm	Bright Field
SV Light	SVL-RIN-SW-15-050-2-W	Ring Light, 15 Deg	Outer Dia. 50 mm	Focus Bright Field
SV Light	SVL-RIN-SW-15-070-3-W	Ring Light, 15 Deg	Outer Dia. 70 mm	Focus Bright Field
SV Light	SVL-RIN-SW-15-090-4-W	Ring Light, 15 Deg	Outer Dia. 92 mm	Focus Bright Field
SV Light	SVL-RIN-SW-45-070-3-W	Ring Light, 45 Deg	Outer Dia. 70 mm	Dark Field
SV Light	SVL-RIN-SW-45-090-4-W	Ring Light, 45 Deg	Outer Dia. 92 mm	Dark Field
SV Light	SVL-RIN-SW-45-100-5-W	Ring Light, 45 Deg	Outer Dia. 100 mm	Dark Field
SV Light	SVL-CS2414W	Coaxial Spot	Outer Dia. 8mm	Wide Angle
SV Light	VL-CSN2414W	Coaxial Spot	Outer Dia. 8mm	Narrow Angle
SV Light	VL-CSH07W + RB2407	Coaxial Spot	Outer Dia. 8mm	700mA High Power
SV Light	EXT-24V-3M	LED Extension Cable	3 m	-
SV Light	EXT-24V-5M	LED Extension Cable	5 m	-
SV Light	ANG-2000-CH2-24V-A1	Lighting controller	Analogue 2-channel	AC Input, 24VDC 1A
SV Light	ST-1000-D1	Strobe controller	Analogue 1-channel	DC Input, 24VDC 2A
SV Light	SVL-4STU48120-4	Overdrive controller	Digital, 4-channel	AC input, 48VDC

LINE SCAN LIGHTINGS

The Corona II family offers a wide range of lighting for line scanning in 4 settings: Dark Field, Bright Field, Tube Light, and Coaxial Module. All lights are available in different LED color: White (5500 K or 3500 K); Red (632 nm); Green (520 nm); Blue (452 nm); IR (850 nm or 940 nm); UV (395 nm). Module length available from 170mm to 1360mm in steps of 170mm.
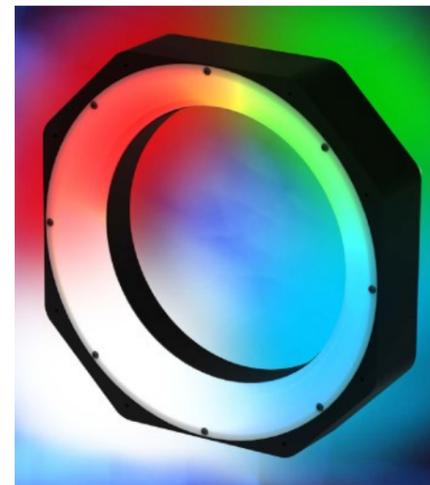
Brand	Type	Model	Variation
Chromasens	Corona II Dark Field - 170mm	CP000200-170(A-D)-x-xxxx	Focus type: A, B, C, D
Chromasens	Corona II Bright Field - 170mm	CP000200-170H-x-xxxx	-
Chromasens	Corona II Tube Light - 170mm	CP000200-170T-x-xxxx	Viewing angle: 0° or 15°
Chromasens	Corona II Coaxial Module with Dark Field – 170 mm	CP000200-CXx-170x(B,C)-xx-xxxx	-
Chromasens	Corona II Coaxial Module with Bright Field - 170 mm	CP000200-CXx-170H-xx-xxxx	-
Chromasens	LED Controller	XLC-4	4 outputs 80W each

MULTISECTOR & MULTISPECTRAL

This multisector and multispectral ring in its multicolor version has 4 independent sectors and the possibility of combining up to 8 colors. Integrated with iBlueDrive technology, these lights has strobe built-in and bulk-trigger features that allows several images to be obtained with a single shot, useful in Photometric Stereo and Shape from Shading applications, among others.

Brand	Type	Model	Variation
DCM Sistemes	Low Angle Diffuse Ring Light	AMS2520A-C01i/4S	8 Colors in one light
	External Dimensions: 273x273x56mm Inner Diameters: 200mm Weight: 2960g Available Light: 400nm, 470nm, 525nm, 630nm, 730nm, 850nm, 940nm, white Power Supply: 24VDC Strobe Controller: Built-in		
Options	VTA0005A = iBlueBox. Control interface for iBlueDrive devices. USB VCC018 = Power cable, 3 cores, 1.8 meters, for: PLC, PRC, SAR, iBlueDrive		

SWIR LIGHTING

Ultra-high brightness SWIR coaxial spot light specially designed for Myutron SWIR Telecentric Lens series. Available wavelength in 1050nm, 1100nm, 1450nm and 1550nm. For complete system setup, you will need 3 items: SWIR coaxial spot light + MPP48W-C2 controller + resistor box. Input Voltage is DC15V max. 4A.

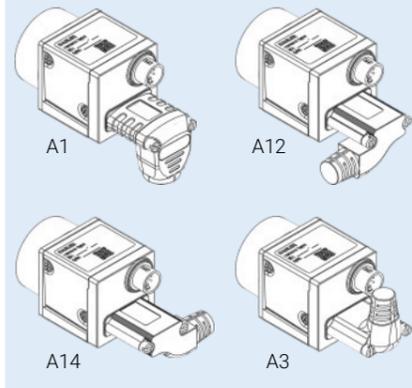| Brand	Type	Model	Wavelength	Input Current	Resistor Box
Myutron	SWIR Coaxial Spotlight	MSL22-1050SWH	1050nm	600mA	MRB-3
Myutron	SWIR Coaxial Spotlight	MSL22-1100SW	1100nm	800mA	MRB-1
Myutron	SWIR Coaxial Spotlight	MSL22-1450SW	1450nm	800mA	MRB-1
Myutron	SWIR Coaxial Spotlight	MSL22-1550SW	1550nm	800mA	MRB-1
Myutron	LED PWM Controller	MPP48W-C2	2-channel	-	-

CABLES

Cables+ & Accessories+

Image courtesy of Alysum

Cables and interconnectors transfers images from camera to PC end. High quality cables from Soda Vision are carefully selected to match with the speed requirements.

Brand	Model	Interface	Length	Specialty
Soda Vision	USB3-3.0M-L-DC	USB 3.0	3.0 meters	-
Soda Vision	USB3-5.0M-L-DC	USB 3.0	5.0 meters	-
Soda Vision	USB3-5.0M-FO-HF	USB 3.0	5.0 meters	High-Flex Fiber Optic
Soda Vision	USB3-10.0M-FO-HF	USB 3.0	10.0 meters	High-Flex Fiber Optic
Soda Vision	IO-6P-3.0M	IO for Basler ace	3.0 meters	-
Soda Vision	IO-6P-5.0M	IO for Basler ace	5.0 meters	-
Soda Vision	2200000315	IO for Basler ace2	5.0 meters	-
Soda Vision	GIGE-3.0M	GigE	3.0 meters	-
Soda Vision	2000030284	GigE	5.0 meters	-
Soda Vision	2000030285	GigE	10.0 meters	-
Soda Vision	PoCL-SS-3.0M	Camera Link	3.0 meters	-
Soda Vision	PoCL-SS-5.0M	Camera Link	5.0 meters	-
Soda Vision	2200000321	CXP-12	5.0 meters	Micro-BNC (HD-BNC)
Soda Vision	2200000322	CXP-12	10.0 meters	Micro-BNC (HD-BNC)

Angled cables are available for USB3 cameras and IO connections. Contact us to get full consultations on the angled cable selections.

Maker	Model	Interface	Length	Specialty
Soda Vision	USB3-5.0M-L-DC-A1	USB 3.0	5.0 meters	Angled A1
Soda Vision	USB3-5.0M-L-DC-A12	USB 3.0	5.0 meters	Angled A12
Soda Vision	USB3-5.0M-L-DC-A14	USB 3.0	5.0 meters	Angled A14
Soda Vision	USB3-5.0M-L-DC-A3	USB 3.0	5.0 meters	Angled A3
Soda Vision	IO-6P-5.0M-A1	IO for Basler ace	5.0 meters	Angled A1
Soda Vision	IO-6P-5.0M-A3	IO for Basler ace	5.0 meters	Angled A3
Soda Vision	IO-6P-5.0M-A4	IO for Basler ace	5.0 meters	Angled A4

A1   A12

A14   A3

TESTING STAND

SODA VISION Stand is a flexible testing stand with adjustable camera arm on X-axis and Z-axis, 600mm adjustment height, Base Board 380mm x 260mm, Gripper gripping range 28mm-62mm, and include lighting arm set.

Brand	Model	Type	Camera Height	Base Board
Soda Vision	S3-Stand-S	Test Stand with light holder arm	600 mm	380 x 260 mm
Soda Vision	S3-Stand-S-Arm	Additional light holder arm	-	-
Soda Vision	S3-Stand-S-Pole	Additional pole	300 mm	-
Kaiser	RS2XA	Test Stand with adjustable height	760 mm	400 x 500 mm

CALIBRATION TARGET

Machine vision applications are often expected to deliver high accuracy in alignment or measurement. A physical object showing the pattern arrays which are fixed spaces is called a calibration target, produced with a very high accuracy to ensure the generation of a transformation with a certain degree of accuracy.

Brand	Model	Features
Soda Vision	S3-WMU-050-0-G-P	1951 USAF Resolution Targets, 50x50x3mm, Chrome on glass, positive
Soda Vision	S3-WMU-050-0-G-N	1951 USAF Resolution Targets, 50x50x3mm, Chrome on glass, negative
Soda Vision	S3-WMO-050-3.0-G	OpenCV compatible, 50x50x3mm, 13x12, grid 3x3mm, Chrome on glass
Soda Vision	S3-WMO-100-6.0-G	OpenCV compatible, 100x100x3mm, 13x12, grid 6x6mm, Chrome on glass
Soda Vision	Customization	Customized calibration target with 1um accuracy, chrome on glass
Soda Vision	Customization	Customized calibration target with 1mm accuracy, aluminum di-bond print
Soda Vision	SOD-CAL-OPCV-9X7	Calibration Target for OpenCV calibration.
Soda Vision	SOD-CAL-PHO-MP	Calibration Target for Photoneo 3D calibration.
Soda Vision	SOD-CAL-VGR-CB-01	Calibration Target for Vision-Guided robotic calibration.

IP67 CAMERA HOUSING

We offer the most intuitive, cost effective and flexible compact housing system on the market. IP67, IP68 and IP69K rated, ideal for the most demanding industrial environments. We've tested them to their limits to ensure they really are as fool proof as they look. With an extensive ecosystem of accessories and adapters, our system can adjust to your requirements without the hassle. The plug and play solution - you are only limited by your imagination.

Brand	Model	For	Features
IP Elements	Basler IP-Housing ace GigE body part	Basler ace GigE	IP67 / Anodized Aluminum
IP Elements	Basler IP-Housing ace USB body part	Basler ace USB	IP67 / Anodized Aluminum
IP Elements	Basler IP-Housing ace2 GigE body part	Basler ace2 GigE	IP67 / Anodized Aluminum
IP Elements	Basler IP-Housing ace2 USB body part	Basler ace2 USB	IP67 / Anodized Aluminum
IP Elements	Basler IP-Housing Lens Tube 50mm	-	Anti-reflective coating glass
IP Elements	Basler IP-Housing Lens Tube 60mm	-	Anti-reflective coating glass
IP Elements	Basler IP-Housing Lens Tube 70mm	-	Anti-reflective coating glass
IP Elements	Basler IP-Housing Lens Tube 80mm	-	Anti-reflective coating glass

SODAVISION
machine vision. imaging technologies.

SINGAPORE

39, Woodlands Close,
#05-61,
MEGA @ Woodlands,
Singapore 737856

T: (+65) 6694 0389
E: sales@sodavision.com

MALAYSIA

1-3-5, Summerskye Square,
Jalan Sungai Tiram 8, Bayan
Lepas, 11900,
Pulau Pinang, Malaysia

T: (+604) 240 8389
E: sales@sodavision.com

THAILAND

No. 1687/1 Phahonyothin
Road, Chatuchak Subdistrict,
Bangkok 10900,
Thailand

T: (+66) 834 233 631
E:sales@sodavision.com

VIETNAM HANOI

B9, Toong Embassy, 4th Floor
N01-T4 Building, Do Nhuan
Street, Bac Tu Liem District,
Hanoi 100000, Vietnam

T: (+84) 961 899 392
E: sales@sodavision.com

VIETNAM HCMC

Ham Nghi, Floor 7 & 8, 87 Ham
Nghi, District 1, Ho Chi Minh
City 700000,
Vietnam

T: (+84) 971 807 816
E: sales@sodavision.com