

OUR VISION, TOMORROW'S INNOVATION



INDUSTRIAL CAMERAS



eco

eco²

exo

evo

hr

shr

VGA to 122 Megapixels Superior Frame Rates Sony, Onsemi and CMOSIS sensors Industrial Protection Class up to IP67 Versatile I/O Concept Designed for Optical Precision Advanced Temperature Control Industrial Standards Compliant SDK Tool Kit

















12SCXP

16ACL

18NCXP

25SCXP

25SCL

25NCL

29NCL

50TCXP

12 to 50 Megapixels Thermoelectric cooled (TEC) High-Speed, High-Resolution **Excellent Image quality** Global Shutter 1usec~10sec Mounts Available: F / M42 / M58 / M72 / LM Compact Version Available CXP6 Technology











Iris GTR Smart Camera

VGA to 5 Megapixels IP67 Rating **Embedded Processor** Real-time Digital I/O Integrated Setup with C-Mount Deploys with Windows/Linux Communicates with Automation Controllers



INDUSTRIAL CAMERAS



10GigE Series

BOLT Series

PACE Series

ACCEL Series

Emergent Vision Technologies current cameras range from 2 to 20 megapixels and 338 to 32 frames per second (fps) at full resolution (over 1000 fps at lower resolutions). Providing best-in-class and versatile solutions for a large variety of applications from display or solar panel inspection over pick-and-place machines, vision guided robots and railway inspection to highway monitoring, sport broadcast applications, and golf swing analysis.









Coay Press

3000 Series

5000 Series

7000 Series

Line Scan Series

Dahua's achievement in the field of ISP technology has accumulated over 10 years, ensuring the image quality of their cameras. Professional DFM design and FMEA analysis teams allow them to control the quality of each product at the beginning of the specifications design.



Xenics is a leading provider of advanced infrared cameras ranging from SWIR, MWIR and LWIR. Xenics designs and markets infrared imagers, cores and cameras of best-in-class image quality to support innovative R&D, industrial automation, machine vision, process control and high-end security applications.

Bobcat

Cheetah

Lynx

Gobi





INDUSTRIAL OPTICS



Schneider Kreuznach has been manufacturing superior quality optics in the market for over 100 years. They are now a worldwide market-leader in high-quality lenses & precision engineering. Schneider manufactures with strict criteria in precision, quality and reliability. These lenses are perfect for metrology & industrial grade imaging.

Cinegon | Xenoplan | Componon | Macro Varon | SWIR Topaz | Ruby | Sapphire | Diamond | Zirco<u>nia | Emerald</u>





Zeiss in an international leader in the field of optics and optoelectronics for over 170 years. ZEISS lenses are compatible with most industrial cameras. The F-Mount and the M42 Mount are popular standard for high-resolution industrial cameras with large sensor sizes up to 24 x 36mm and for line scan cameras with sensors up to 43mm. ZEISS lenses are widely used in machine vision, automation, quality inspection, optical metrology as well as in research and development.

Milvus | Planar | Biogon | Tessar | Distagon Makro-Planar | Interlock | C-Sonnar | Otus

Tokina

Kenko Tokina was founded as a manufacturer specializing in optical products in September 1957. Based on advanced optics technology, we have been focusing our business on the development and sales of optical products for digitalized photographs, videos and such as binoculars, astronomical telescopes, industrial optics as for security and Machine Vision.

C-Mount Type : 3MP | 5MP | 10MP | 21MP | Telecentric Macro





WIRON

Myutron specializes in manufacturing lenses for machine vision applications. Consisting of long focal zoom, vari focal lenses for day and night and lenses for the large format. All products are designed for mega pixel and are made in Japan. The company's telecentric optical system is an optical design that where the principle ray in parallel to the optical axis. It eleminates distortion problems by collimating the light entering the lens and suitable for imaging 3D objects.

ILLUMINATION CONTROL & VISION ILLUMINATION



PP / RT / RC Series

with up to 16 channels



Triniti

LED current controller with Intelligent controls



TR-HT Series

High-Power LED current controller with 2 channels



CC320

Patented Technology SafeSense™ SafePower***

GARDASOFT Industrial LED technology

> Trigger Timing Controller with 8 I/O





TR-CL 180 Industrial Lens Controller

The lens controllers are part of the Gardasoft Triniti machine vision platform, so users now have seamless access and control of system cameras, lighting and lenses within the sameenvironment (either via conventional image processing software or via a Triniti SDK).

客 smart vision lights

Compact & Luminous Lighting

Ring lights | Linear lights | Brick lights | Back lights | Dome lights Spot lights | Structured lights | Dual-Axis RGB



T-Slot Mounting



Overdriving Capabilities



Washdown IP68 Corrosion resistant





Professional Custom Lightings

Contact us for more information.



IMAGE ACQUISITION / IMAGE PROCESSING









Matrox Rapixo CXP

Supports data rates of eithe up to 6.25 Gbps (CXP-6) or up to 12.5 Gbps (CXP-12).

Matrox RadientPro CL

Supports the highest Cameralink acquisition rates with FPGA-based processing

Matrox Radient eV

Supports Cameralink & CoaXPress image acquisition

Matrox Solios

Supports Analog signal, Cameralink & GigE Vision

Matrox Morphis

Dual/Quad decoder for fast camera switching or simultaneous real-time acquisition

Matrox Vio

PCIe video capture & display board for HD/SD video in SDI or Analog formats

Matrox Orion HD

Supports High-Definition video inputs and outputs including 1080p/60Hz

Matrox Clarity UHD

Cameralink acquisition rates with FPGA-based processing



Image Processing Software

Matrox Imaging Library

Matrox Design Assistant



Axion

2 Base, Medium, Full or 80-bit cameras w/ PoCL

Karbon

Base, Medium or Full

CoaXPress frame grabber (4 x CXP-6)

Cyton

Neon

Quad Base for 1, 2, 3, or 4 Base camera w/ PoCI

R3

2-channel, 32-bit with scan-reversal







Silicon**Software**

microEnable 5 ironman / marathon

Supports Cameralink & CoaXPress image acquisition





FPGA Programming Environment VisualApplets Smart Visi

Smart Vision Development Kit



IMAGE ACQUISITION / IMAGE PROCESSING







Komodo

4 x SFP+ channels 10 Gbps each
Up to 8 CLHS links support
Up to 8 GigE Vision links support
Multi-stream support

Predator

PoCXP support on all channels
Flexible GPIO interface
On board image processing





INDUSTRIAL MOUNTING



Demo kit

THE BEST WAY TO FIGURE OUT HOW TO SWIVELLINK YOUR PROCESS











The Swivellink® demo kit is a must have for research and development, maintenance, spare parts, and showing equipment to a first time user.

Add this demo kit to your next order and dive deeper into the wonderful world of Swivellink® mounting solutions.



EOAT kit



Conveyors





SUALAB INTRODUCTION

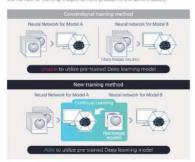
SUALAB Solution

SUALAB, specialized in A.I. (Deep learning) image analysis technology, provides a fast, accurate and user-friendly Deep learning machine vision S/W library for manufacturing industry.



Continual Learning: Minimize training time and number of training images

By utilizing pre-trained neural network, customers can minimize training time and the number of training images for new product in the same industry.



Uncertainty Data Analysis: The easiest way to review training data

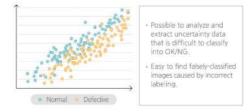


Image Comparison: learning the difference

Inspects defects by analyzing the differences between normal and defect images.



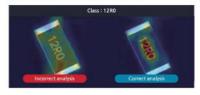
Multi Image Analysis: Comprehensive single neural network for multi-type images

15 times faster processing time than conventional image-by-image inferencing method.



Visual Debugger: Effecient way to analyze the

In the classification model, the user can check whether the actual inspection has been carried out according to the user's intention.



Optical Metrology Library A 3D image processing powerhouse.

MU3 has an extended range of 2D & 3D image processing capabilities which allows user to visualize and analyse pixel data. This software is suitable for metrology and various other applications.



Smart rapid prototyping:

Generate contour/slice of closed mesh objects and generate plate joint, etc.

Flexible visualization:

Vary display scale, user-specified range, true color, pseudo color

Diverse input/output formats:

ASCII, binary data, medical DICOM, BMP, JPEG, EFS, DXF, etc.

Powerful processing toolbox:

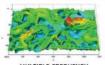
Arithmetic operation, image body operation, color separation and combination.computed tomography (CT), image masking, edge detection, filtering, morphology, computational geometry, statistics. threshold, fitting, object detection, Fourier transform, etc.







MODELING & PROTOTYPING



MULTIPLE-FREQUENCY FRINGE PROJECTION



Basic drawing functions:

and types of annotations

Able to create various shapes

FRINGE PROJECTION



Hardware / Evaluation Kit

MU3 DEFLEKTOMETER

Specular Surface Inspection



In today's world, specular surface challenges 3D measurement technology. Based on Phase Measuring Deflectometry, Mu3's specular-surfaceinspection function is able to reach nanometer precision. Mu3 technology enables automated optical inspection for glass, metal, wafer and mirror-like surfaces.



MUNOS

Structured Light Stereo Imaging



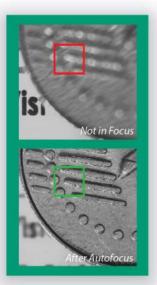
UNOS™ is a structured light based 3D scanner that brings physical objects into 3D point cloud. A full-field determination of 3D surface profile can be achieved with large point cloud data, high accuracy, high precision, and high speed. Applications in diverse fields such as aerospace, medical, product inspection, quality control, and reverse engineering are possible.



Optical Automation Autofocus // Hyperfocus for industrial vision.

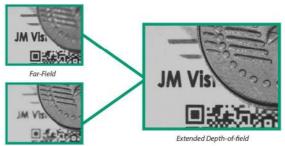


Autofocus feature is prevalent in the common DSLR or consumer digital electronics. Contrary to popular belief, automation has yet to be fully automated. We have taken the next step closer to Industrial 4.0 or Factory of the Future. This led to our in-house development of autofocusing calibration SDK designed exclusively for industrial applications. Harnessing this technology opens up countless new possibilities within industrial machine vision, robotics, traffic management, high-end surveillance and even in the digital broadcast and film industry.



Hyperfocus

The hyperfocal distance of a lens is the distance from the camera lens to an optimal point of focus that maximizes the depth of field in the image. By focusing on this optimal point—the hyperfocal point—as much of the scene as is possible for that lens and aperture setting will be in acceptable focus from near to far. We are able to achieve hyperfocal by using multiple image stacking process.



Near-Field

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OUR APPLICATIONS

Aerospace & Automotive



Automotive subassemblies are often produced in very high volumes making human assembly and verification impractical. Today's assembly lines utilize the latest in automation technology to meet throughput and ensure manufacturing quality. For these demanding applications, machine vision systems are widely used to guide robots, track parts and verify every step of the evolving assembly process.

Electronics & Semiconductor



In semiconductor manufacturing, yield drives costs, so manufactuers inspect products at many points between bare wafers and packaged ICs, seeking to identify defects as soon as possible. In the highest-performance situations, the features are so small that visible light can no longer resolve them, and inspection systems must use deep ultraviolet(DUV) wavelengths for illumination.

Research & Development



Non-destructive testing is extremely valuable for evaluation, troubleshooting, research, and quality control in science and industry, and X-ray imaging is an important NDT technique for products including circuit boards, concrete, metal parts and assemblies.

Pharmaceuticals



The pharmaceutical industry was one of the earliest adopters of machine vision, as the incentives to guarantee product integrity and safety have always been foremost in this industry. By simply applying date and lot codes was not enough, given character quality concerns associated with then existing imprinting processes. Machine vision became the ideal technology to verify codes and validate legibility of the codes.

Food & Beverage



Food and packaging inspection including measurement, or counting of bottles, cans, containers, labels, foods, pills, and more, offers different challenges than electronics or semiconductor inspection. Colour imaging can become very important in food inspection, as it is often necessary to judge ripeness or "doneness".

System Integrators



A Vision System Integrator invests time to understand a customer's unique requirements and will design and build a vision solution that meets the customer's specific manufacturing needs in terms of performance, reliability and adaptability. Often this means Vision System Integrators are undertaking one of a kind projects; specifying and configuring systems to a customer's requirements.



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WHO WE ARE

JM Vistec System was established in 2004. Since then, we had partnered and collaborated with leading research institutes to develop solutions for various industries. Today, our capabilities has soar into greater heights with strong regional presence in Asia.

As a distributor, the brands we represent are selected based on performance and reliability. Machine vision requires the delicate skills of professionals for the optimal results. Our engineers are regularly trained and updated on the latest technologies and techniques. We take pride in customer satisfaction and deliver only the best performance solutions.





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