JM VisTec System

OUR VISION, TOMORROW'S INNOVATION

THE MACHINE VISION SPECIALIST

www.jm-vistec.com

@jmvistec

@jmvistecsystem

@jmvistec

@JM Vistec System

JM VISTEC SYSTEM

THE MACHINE VISION SPECIALIST

JM VisTec System was established in 2004 as a machine vision component wholesaler/distributor in Singapore. Besides, being a distributor that represent over 20 products in Machine Vision industry globally, we help customer to develop simple components to complex machine vision application/solutions. We ensure that every client's needs/requests are our daily mission which push us to excel and expand to the limit of sciences and technologies. Since than, we had partnered and collaborated with leading research institutes to develop solutions for various industrial.

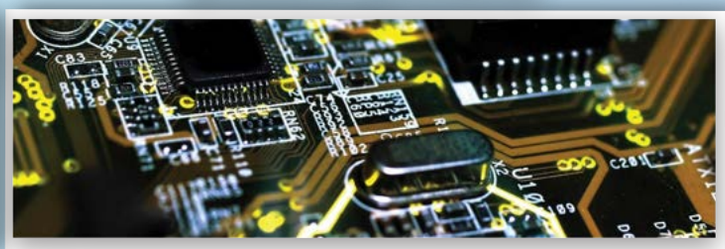
We believe in innovation will be the key to achieve sustainable growth which has been cultivated through our corporation. Only in creating value for our customer, do we find gratification in work as our biggest reward.

OUR VISION, TOMORROW'S INNOVATION

OUR APPLICATIONS

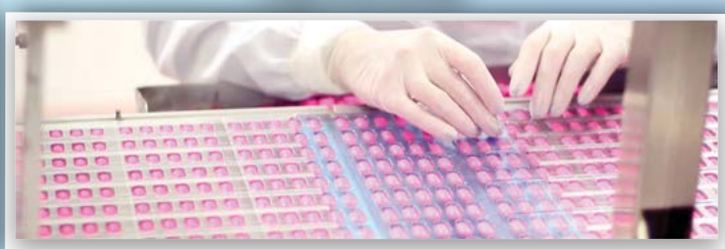
Aerospace & Automotive

Electronics & Semiconductor



Research & Development

Pharmaceuticals



Food & Beverage

System Integrators

INDUSTRIAL CAMERAS

SVS-VISTEK

- 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

GiGE VISION · HI-SPEED CERTIFIED USB · CAMERA Link · CoaXPress · MICRO FOURTHIRDS

eco | **eco²** | **exo** | **fxo** | **hr** | **shr**

isvi

- 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

CAMERA Link · CoaXPress

29NCL | **50TCXP** | **25SCL** | **25NCL** | **18NCXP** | **25SCXP** | **12SCXP** | **16ACL**

MATROX IMAGING

- 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

GiGE VISION

Iris GTR Smart Camera

INDUSTRIAL CAMERAS

i-TEK OptoElectronics

- Up to 80kHz Line Frequency
- High sensivitity and low noise
- Embedded FFC Real-time hardware
- Rich exposure control modes
- Flexible and simple GUI configuration tool
- Real-time temperature monitoring

GiGE VISION | CAMERA Link

PA | PL | HS | TTS | THS | TS

FOCATEK

GiGE VISION | HI-SPEED CERTIFIED USB | CAMERA Link | CoaXPress

- Covering wide range of resolution from 0.3MP to 50MP
- Support wide range of camera interface
- Widely used for OCR recognition, industrial defect inspection, target identification, traffic control solutions, entertainment monitoring, medical and life science, and other applications

Area Scan Series | Large Area Scan Series | Line Scan Series

Xenics Infrared Solutions

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 application

GiGE VISION | CAMERA Link

Manx | Xeva | Bobcat | Cheetah | Lynx | Gobi

INDUSTRIAL OPTICS

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

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 | Zirconia | Emerald

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.

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

ILLUMINATION CONTROL & VISION ILLUMINATION

GARDASOFT
Industrial LED technology

Patented Technology
SafeSense™
SafePower™

PP / RT / RC Series

LED current controller with up to 16 channels

Triniti

LED current controller with Intelligent controls

TR-HT Series

High-power LED current controller with 2 channels

CC320

Trigger Timing Controller with 8 I/O

optotune
shaping the future of optics

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 same environment (either via conventional image processing software or via a Triniti SDK)

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

VISLIGHT
PROFESSIONAL ILLUMINATION

Professional Custom Lightings

Contact us for more information

IMAGE ACQUISITION / IMAGE PROCESSING

MATROX IMAGING

CAMERA Link

CoaXPress

Matrox Rapixo CXP
Supports data rates of either 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 Anolog 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 Anolog formats

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

Matrox Clarity UHD
Supports the highest Cameralink acquisition rates with FPGA-based processing

Image Processing Software

Matrox Imaging Library | **Matrox Design Assistant**

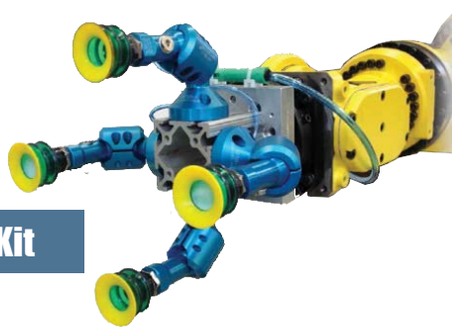
Demo Kit

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.

INDUSTRIAL MOUNTING

Swivellink®
INTELLIGENTLY DESIGNED

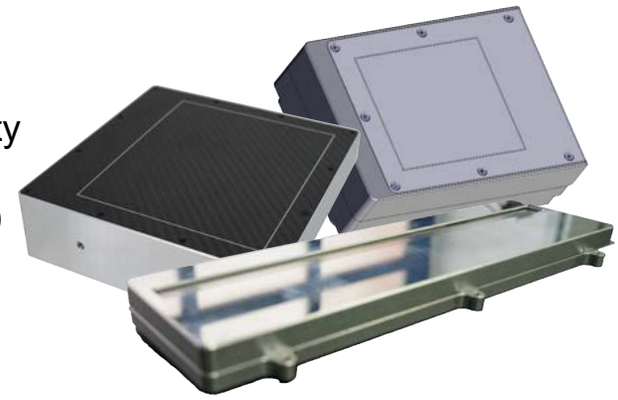


EOAT Kit

Conveyors

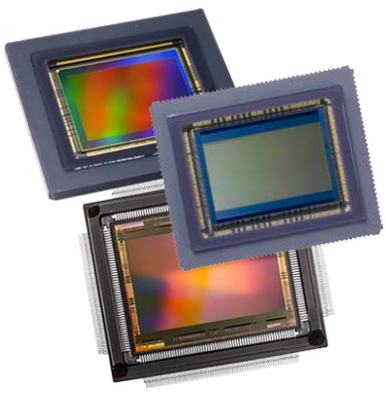
CMOS X-RAY DETECTOR

- Rolling shutter exposure
- Switchable high and low full well for high/low sensitivity
- On-chip temperature sensor
- Dynamically re-programmable region of interest (ROI)
- Non-destructive readout option



100µm **75µm** **50µm**

X-RAY DETECTOR



- Users expanded possibilities for industrial applications
- Uniquely large pixel sizes
- CMOS sensors push the boundaries of imaging possibilities
- Facilitating on-going innovaion in industrial camera and image technologies
- Support pionerring solutions for advanced industrial, machine vision, medical and scientific application

2.76MP **5MP** **9.24MP** **120MP** **250MP**

3D SYSTEM / SOLUTIONS

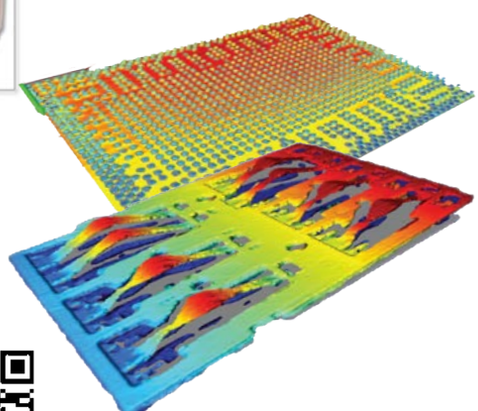
Vi2tronics
Smart 3D Solutions

Micro2

Micro2HD

2Flex

2FlexHD



- Focus resistant multi-phase pattern projection
- Shadow avoidance by multi-view imaging
- Excellent signal to noise ratio due to HDR
- Ability to image diffuse, shiny and transparent objects
- Optimized software SDK for inline inspection

Sofkore GmbH

www.sofkore.de

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

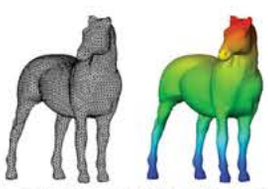
Diverse input/output formats:
ASCII, binary data, medical DICOM, BMP, JPEG, EPS, DXF, etc

Basic drawing functions:
Able to create various shapes and types of annotations

Flexible visualization:
Vary display scale, user-specified range, true color, pseudo color

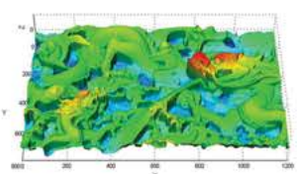
Powerful processing toolbox:
Arithmetic operation, image body operation, color separation and combination,computed tomography (CT), image masking, edge detection, filtering, morphology, computational geometry, statistics, threshold, fitting, object detection, Fourier transform, etc.

MODULES



2D CONTOURS OF CLOSED MESH

MODELING & PROTOTYPING



MULTIPLE-FREQUENCY FRINGE PROJECTION

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-surface-inspection 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.

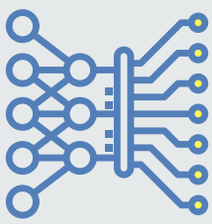
NEUROCLE

NEUROCLE is a company that provides Deep Learning Vision Software for non-experts.
As a group of computer vision and deep learning experts, Neurocle aims to make deep learning vision technology the norm in various fields including manufacturing, medical and logistics.

Our Vision	"Making deep learning vision technology more accessible"
Core Values	"More Accurate, Affordable, and Accessible"

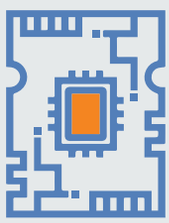
Core Technology

Deep Learning



Computer Vision

Embedded



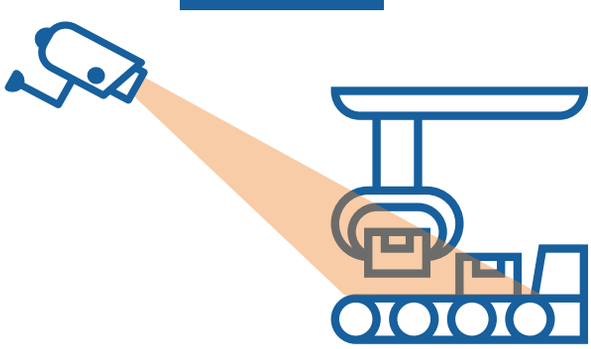
NEURO-T & NEURO-R

NEURO-T is a no-code software for training image-related deep learning models. With intuitive GUI and Auto Deep Learning algorithm, anyone can create the best performing deep learning models.

NEURO-R is a runtime that helps with model deployment, supporting optimized integration with various inference platforms including GPU and embedded processors.

NEURO-T

NEURO-R



No-code deep learning software that enables non-experts to easily create model

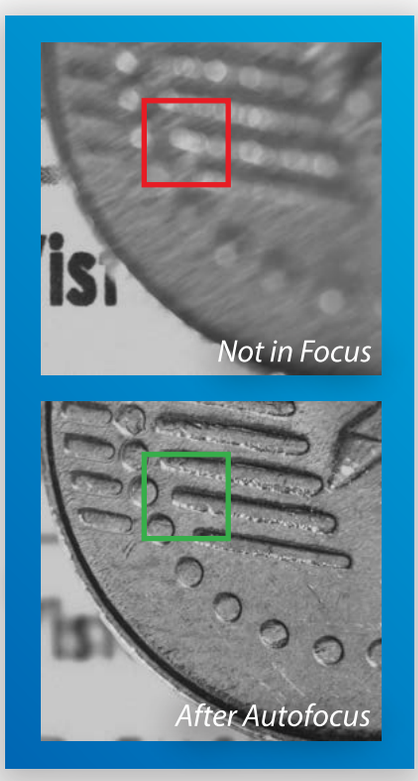
Runtime API that can be easily integrated into existing system (compatible with C# and

Optical Automation

Autofocus // Hyperfocus for industrial vision.

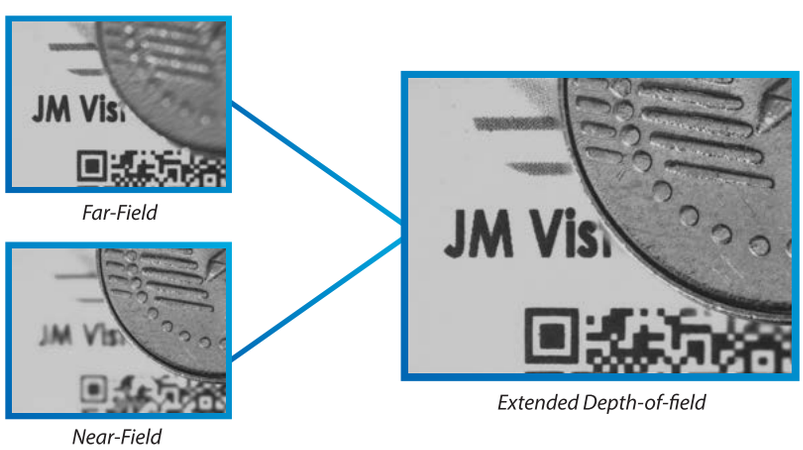
Making automation even more automated.

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 Industrial4.0 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.*

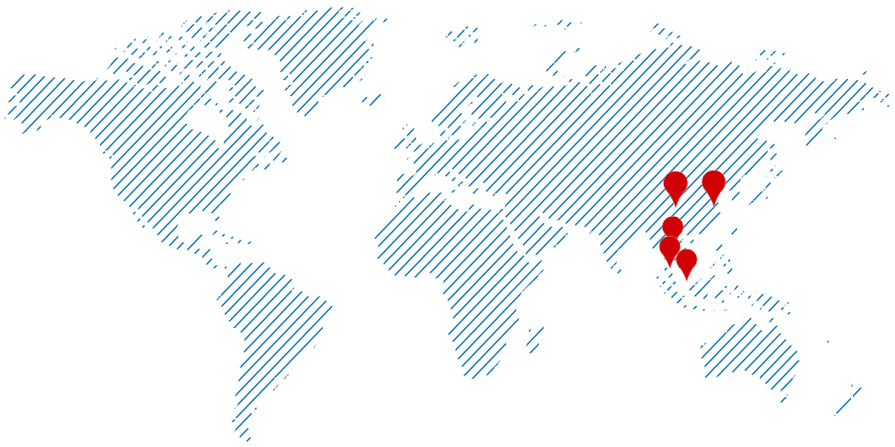


Hyperfocus

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.



JM VisTec System



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GARDASOFT Industrial LED technology

SVS-VISTEK

MATROX IMAGING

NEUROCLE

Xenics Infrared Solutions

ZEISS

smart vision lights

isvi

Schneider KREUZNACH

I-TEK OptoElectronics i-tek®

Vi2tronics Smart 3D Solutions

Canon

FOCATEK

μ-TRON

isdi

Tokina

Swivellink® INTELLIGENTLY DESIGNED

optotune shaping the future of optics

computar

KAYA INSTRUMENTS

SYMC