



JM VisTec System

OUR VISION, TOMORROW'S INNOVATION

THE MACHINE VISION SPECIALIST

www.jm-vistec.com



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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 then, 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



- ★ VGA to 151 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
- ★ Polarizing & UV (Beyond Visible/SWIR/UV/Polarized)
- ★ IR Camera



eco exo fxo hr shr



- ★ 12 to 151 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



29NCL 50TCXP 25SCL 25NCL 18NCPX 25SCXP 12SCXP 16ACL



- ★ 2 to 16 Megapixels
- ★ IP67 Rating
- ★ VGA and USB connectivity
- ★ Real-time Digital I/O
- ★ VGA and USB connectivity
- ★ Image classification and segmentation tools
- ★ Integrated lens focusing and illumination intensity control



Iris GTX Smart Camera

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



10 GiGE

CAMERA Link

PA

PL

HS

TTS

THS

TS

FOCATEK

10 GiGE

USB

CAMERA Link **CoaXPress**



- ★ Covering wide range of resolution from 0.3MP to 151MP
- ★ 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



10 GiGE

CAMERA Link



Manx

Xeva

Bobcat

Cheetah

Lynx

Gobi

INDUSTRIAL OPTICS



Zeiss is 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 is parallel to the optical axis. It eliminates 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



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

Industrial Lighting Controller

Gardasoft Vision design and manufacture high-performance Lighting Pulse Controllers, LED Strobe Controllers, Liquid Lens Controllers and Timing Controllers for machine vision applications. Our products include stand-alone units and embedded solutions to lighting control, lens control and timing control and we offer a custom design service.

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 GevIQ

Smart network interface cards for efficient high-bandwidth GigE Vision acquisition

Matrox Concord PoE

Multi-port Gigabit Ethernet adaptors with PoE for GigE Vision

Matrox Rapixo CXP

Single-to quad-input CoaXPRESS 2.0 frame grabbers with optional data forwarding and FPGA-based image processing offload

Matrox CL Pro

Feature-packed high-performance Camera Link frame grabbers with FPGA-based image processing offload

Matrox Radiant eV-CL

Feature-packed high-performance Camera Link frame grabber series

Matrox Clarity UHD

Multi-format multi-input UHD video capture card with optional H.264 encoding

Matrox Indio

Industrial I/O & communication card

Matrox Legacy Products

Case-to-case basis. Contact us to find out more!

Image Processing Software



Matrox Imaging Library

Matrox Design Assistant

Demo Kit

THE BEST WAY TO FIGURE OUT HOW TO SWIVELINK 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



EOAT Kit



Conveyors

IMPERIAL

METRIC



www.jm-visdec.com



DIGITAL MICROSCOPE

- ★ Plug & Play machine vision microscopes
- ★ All Imaging Module microscopes are embedded
- ★ Compact
- ★ Robust
- ★ Numerous software options included



IM•compact

IM•profile

IM•linea

IM•solino



3D SYSTEM / SOLUTIONS

- ★ Compact designs
- ★ Fast response
- ★ High reliability
- ★ Robust system design
- ★ Less tolerance sensitivity



EL-3-10

EL-10-30-TC

EL-10-42-OF

EL-12-30-TC

EL-16-40-TC



SENSOR



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

2.76MP

5MP

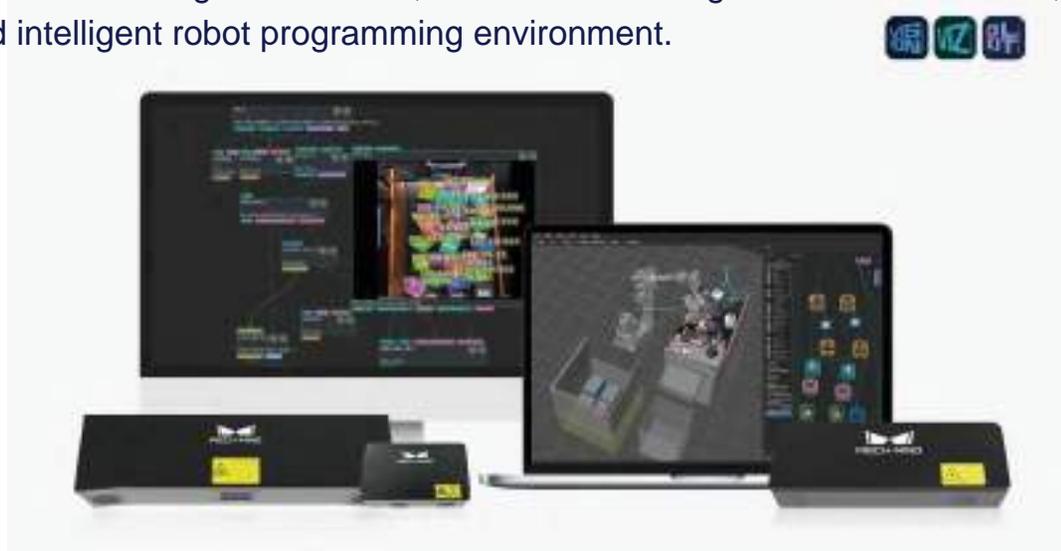
9.24MP

120MP

250MP



Aiming to drive the ubiquity of intelligent robots, Mech-Mind has developed a full R&D infrastructure and product portfolio including 3D cameras, machine vision algorithms and software, offline deep learning tool, and intelligent robot programming environment.



High Intelligence

Enabled by powerful AI algorithms, our solutions can handle different objects and deal with various complex situations.

Stability & Reliability

The camera is dust and water proof with IP65 enclosures standards

Easy Integration

can be adapted to various mainstream robot brands and support integrating with various systems and the secondary software development

Easy to Deploy and Use

Equipped with plug-and-play solutions, the fully visualized, code-free programming interface is easy to use and reduces the deployment costs

Wide-range application cases

Applications cover palletizing, depalletizing, order picking, machine tending, gluing, locating, assembling, detecting, etc.

Product Parameters	Nano	Pro S Enhanced	Pro M Enhanced	Laser L	Log S	Log M	Deep
							
Optimal Scanning Range (mm)	300 - 600	500 - 1000	800 - 2000	1500 - 3000	500 - 1000	800 - 2000	1200 - 3500
Near FOV (mm)	220 × 160 @ 0.3 m	350 × 220 @ 0.5 m	500 × 350 @ 0.8 m	1500 × 1200 @ 1.5 m	360 × 250 @ 0.5 m	520 × 390 @ 0.8 m	970 × 1160 @ 1.2 m
Far FOV (mm)	430 × 320 @ 0.6 m	690 × 430 @ 1.0 m	1360 × 860 @ 2.0 m	3000 × 2400 @ 3.0 m	710 × 490 @ 1.0 m	1410 × 960 @ 2.0 m	2830 × 3320 @ 3.5 m
Resolution	1280 × 1024	1920 × 1200	1920 × 1200	2048 × 1536	1280 × 1024	1280 × 1024	2048 × 1536
Megapixels (MP)	1.3	2.3	2.3	3.0	1.3	1.3	3.0
Z Repeatability(σ)	0.1 mm @ 0.5 m	0.05 mm @ 1 m	0.2 mm @ 2 m	0.5 mm @ 3 m	0.1 mm @ 1 m	0.3 mm @ 2 m	1.0 mm @ 3 m
Accuracy	0.1 mm @ 0.5 m	0.1 mm @ 1 m	0.2 mm @ 2 m	1.0 mm @ 3 m	0.2 mm @ 1 m	0.3 mm @ 2 m	3.0 mm @ 3 m
Typical Capture Time (s)	0.8 - 1.3	0.5 - 0.8	0.5 - 0.8	0.6 - 1.3	0.3 - 0.5	0.3 - 0.5	0.8 - 1.3
Baseline (mm)	68	150	280	400	150	280	400
Dimensions (mm)	145 × 51 × 85	270 × 72 × 130	387 × 72 × 130	459 × 89 × 145	270 × 72 × 130	387 × 72 × 130	481 × 98 × 145
Weight (kg)	0.7	2.2	2.4	3.7	2.2	2.4	4.3
Operating Temperature	0 - 45°C			-10 - 45°C		0 - 45°C	
Communication Interface	Ethernet						
Power Supply	24V DC						
Safety and EMC	CE/FCC/VCCI						
Protection Class	IP65						
Cooling	Passive						

NEUROCLE

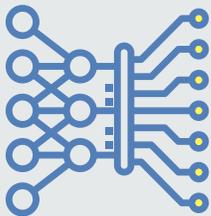
NEUROCLE is a company that provides Deep Learning Vision Software for non-experts. As a group of computer vision and deep learning experts, Neurocle aims to make deep learning vision technology the norm in various fields including manufacturing, medical and logistics.

Our Vision "Making deep learning vision technology more accessible"

Core Values "More Accurate, Affordable, and Accessible"

Core Technology

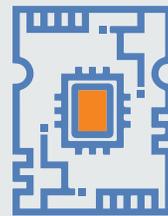
Deep Learning



Computer Vision



Embedded



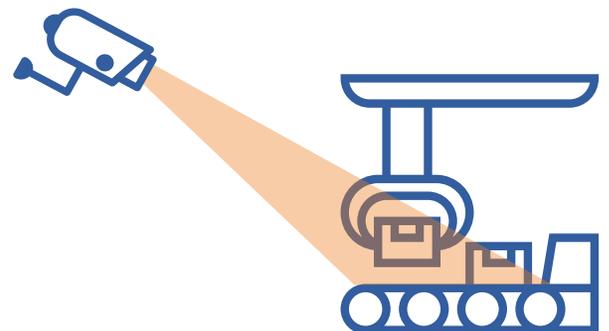
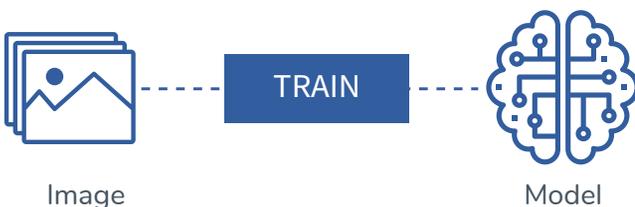
NEURO-T & NEURO-R

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-T

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

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.



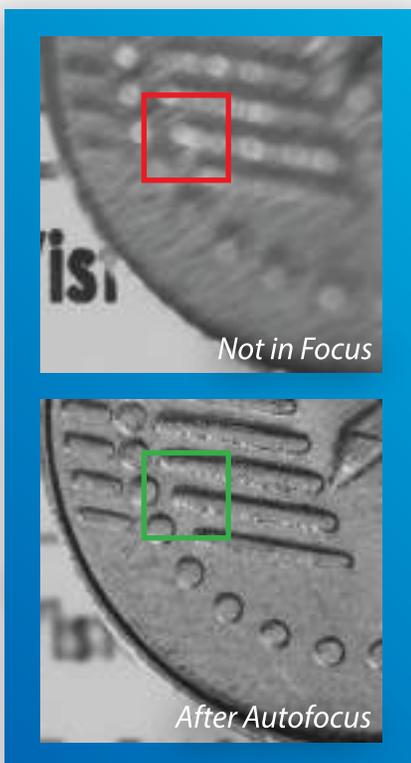
Making automation even more automated.

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 autofocus 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.





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