

Time schedule Industrial VISION Days 2021

▶ 3D ▶ Start-up Pitch ▶ Applications ▶ Hyperspectral ▶ Camera Technology ▶ Optics and lighting ▶ Software & Deep Learning ▶ Standards ▶ Vision Processing (Embedded Vision, IPC, GPU)

Time	Tuesday, 5 October 2021	Halle 8, Stand C70
10:00-10:30	VISION 2021 - OPENING An overview of trade fair highlights (Messe Stuttgart) and the latest market figures (VDMA Machine Vision) VISION Team/Messe Stuttgart, Chairman/VDMA Machine Vision	
10:40-11:00	Photonfocus ▶ 3D cameras for laser triangulation: Selecting wavelengths from UV to NIR ▶ Benoit Ostiz	
11:00-11:20	AIT Austrian Institute of Technology ▶ Highspeed inline computational microscopy system for industrial inspection ▶ Prof. (FH) Dr. Lukas Traxler	
11:20-11:40	Basler ▶ Technological Advancements in Industrial 3D Time-of-Flight Imaging ▶ Thomas Kuhnke	
11:40-12:00	EVT Eye Vision Technology ▶ Smart 3D Triangulation Sensor with MYRIAD Deep Learning Support ▶ Michael Beising	
12:00-12:20	ams ▶ Near Infrared 3D Sensing with Active Light Sources ▶ Peter Vandersteegen	
12:20-12:40	Baumer ▶ Overview of latest camera technology to address challenging applications ▶ Mirko Benz	
12:40-13:00	Optomotive ▶ HIGH-SPEED IMAGE PROCESSING BEYOND 100 Gbps ▶ Barbara Rakovec Gorkic and Ales Gorkic	
13:00-14:00	VDMA Machine Vision panel discussion Deep Learning: Much ado about nothing, again? Basler (tbc), ISRA VISION (tbc), Mark Williamson (STEMMER Imaging), Olaf Munkelt (MVTec Software) and Donato Montanari (Zebra Technologies). Moderated by David Löh, inspect	
14:00-14:20	MATRIX VISION ▶ Embedded Vision – What was, what is, what will be ▶ Horst Mattfeldt	
14:20-14:40	IMAGO Technologies ▶ What's behind new technologies: AI, Deep Learning and Event-Based Vision? ▶ Carsten Strampe	
14:40-15:00	Gidel ▶ Overcoming the bandwidth limitations of vision on the edge ▶ Reuven Weintraub	
15:00-15:20	MVTec Software ▶ Let your applications benefit from deep learning technologies ▶ Mario Bohnacker	
15:20-15:40	Prophesee ▶ Revealing the invisible to machines with neuromorphic vision systems ▶ Luca Verre	
15:40-16:00	Zebra Technologies Corporation ▶ Using Barcode Reading and Machine Vision to Create Deep Learning Solutions ▶ James Witherspoon	
16:00-16:10	K Lens ▶ 3D Inline-Plug Inspection ▶ Dr. Klaus Illgner	
16:10-16:20	Musashi ▶ An AI Model Architecture Designed To Solve Common Deployment Challenges ▶ Martin Bufl	
16:20-16:30	Fastree3D ▶ Flash LiDAR based on time-resolved single-photon imaging sensors ▶ Claude Florin	
16:30-16:40	Maddox ▶ AI-based optical inspection for everyone with a "money-back guarantee" ▶ Peter Droege	
16:40-16:50	HD Vision Systems ▶ Pick-&Place of Complex, Metallic Parts with Light Field & AI ▶ Dr. Christoph Garbe	

Time	Wednesday, 6 October 2021	Halle 8, Stand C70
09:20-09:40	Teledyne Dalsa ▶ Clarity at High Speed ▶ Matthias Sonder	
09:40-10:00	IDS Imaging Development Systems ▶ IDS NXT AI Vision – simple, complete and comprehensible ▶ Patrick Schick	
10:00-10:20	Chromasens ▶ Fast and reliable data transfer with 10 GbE for machine vision ▶ Dr. Klaus Riemer	
10:20-11:20	VISION Award 2021 The four finalists will present their technology and the jury will crown a winner Moderated by Warren Clark, Imaging and Machine Vision Europe	
11:20-12:00	A3, CMVU, EMVA, JIA and VDMA Machine Vision ▶ Global Vision Standards Update ▶ Bob McCurach (A3), Huo Yun (CMVU), Werner Feith (EMVA), Sachio Kiura (JIA), Suprateek Banerjee (VDMA Machine Vision)	
12:00-12:20	Allied Vision Technologies ▶ Machine vision on embedded systems: Possibilities and limitations ▶ Gion-Pitschen Gross	
12:20-12:40	MSTVision ▶ FPGA accelerated computational imaging ▶ Michael Stelzl	
12:40-13:00	easics ▶ Platform-Independent & Scalable Real-Time Embedded Neural Network Inference ▶ Ramses Valvekens	
13:00-13:20	Opto Engineering ▶ New 360° view optics for cavity inspection ▶ Francesco Mondadori	
13:20-13:40	iiM measurement + engineering ▶ High-power UV LED lighting – a versatile technology ▶ Jose Saiz	
13:40-14:00	HOYA CORPORATION OPTICS SECTION Europe Branch ▶ Optical Filters – A Commodity? ▶ Dr.-Ing. Oliver Pust	
14:00-14:10	Nerian Vision ▶ Ultra high speed 3D sensing with more than 70 million 3D points per second ▶ Dr. Konstantin Schauwecker	
14:10-14:20	deevio ▶ Deep Learning – real-life experiences from more than three years ▶ Damian Heimel	
14:20-14:30	3dvisionlabs ▶ Enabling the Future of Smart Factories with Next-Generation 3D Vision ▶ Michel Findeisen	
14:30-14:40	Visometry ▶ Twyn: Ensure quality, save time & money with AR & Digital Twins ▶ Dr. Ulrich Bockholt	
14:40-14:50	GrAI Matter Labs (GML) ▶ AI at the Speed of Life ▶ Christian Verbrugge	
15:00-15:20	MULTIPLE (EU-funded project) ▶ MULTIPLE – Multi-modal monitoring solutions for industrial applications ▶ Dr. Peter Schwider	
15:20-15:40	EVK DI Kerschhaggl ▶ From real-time hyperspectral edge computing towards a data learning centre ▶ Dr. Matthias Kerschhaggl	
15:40-16:00	Photolitics ▶ LS2G novel versatile multi-line scan global shutter sensor family ▶ Martin Wäny	
16:00-16:20	SICK ▶ Ruler3000 – The fastest way to high-performance 3D ▶ Sofia Nilsson	
16:20-16:40	Teledyne e2v ▶ Highly reliable 3D imaging for challenging applications with Time-of-Flight ▶ Sergio Morillas	
16:40-17:00	Photoneo ▶ MotionCam-3D – The next chapter of 3D Vision ▶ Svorad Stolz	

Time	Thursday, 7 October 2021	Halle 8, Stand C70
09:10-09:20	HodooAI Lab ▶ HodooAI AI AutoTraining Platform and On-premise Solution ▶ Jungwoo Lee	
09:20-09:30	Neurocle ▶ Auto Deep Learning Algorithm in Machine Vision Applications with Neuro-T ▶ Hongsuk Lee	
09:30-09:40	3HLE ▶ Deep Learning Automatic Vision: a novel high-res fast and flexible software ▶ Hoang Le	
09:30-09:40	Neurala Europe ▶ How Next Gen Deep Learning is Making Quality Inspection More Accessible ▶ Stephen Walsh	
09:50-10:00	Dotphoton ▶ Raw images in the age of AI ▶ Dr. Bruno Sanguinetti	
10:00-10:20	MTD ▶ Powerful Hyperspectral SWIR LED Line Light ▶ Dr.-Ing. Lorenz Diener	
10:20-10:40	Hamamatsu Photonics Deutschland ▶ See the invisible – Cutting edge InGaAs image sensors for Hyperspectral ▶ Moritz Fischer	
10:40-11:00	perClass ▶ End-to-end workflow for hyperspectral object sorting with perClass Mira ▶ Dr. Pavel Paclik	
11:00-11:20	Midwest Optical System ▶ Image Quality, Protection, Repeatability: Why Filters are a Necessity ▶ Georgy Das	
11:20-11:40	Edmund Optics ▶ Imaging Optics and Harsh Environments ▶ Dr. Boris Lange	
11:40-12:00	Laser 2000 ▶ Pulsed Power Line Laser modules in 3D Machine Vision applications ▶ Karl Cichon	
12:00-12:20	phil-vision ▶ 3D camera technology supports automated prefabricated house production ▶ Patrick Gailer	
12:20-12:40	CSEM ▶ A compact vision system for real-time quality control in a milling machine ▶ Sébastien Blanc	
12:40-13:00	Viztronics Smart Solutions ▶ 3D Inspection and Bin Picking of Orthopedic Implants using Deflectometry ▶ Dr. Tahir Rabbani	
13:00-14:00	VDMA Machine Vision panel discussion: Smart Cameras & Smart Sensors take it all! Moderated by Peter Ebert, inVISION	
14:00-14:20	Mikrotron ▶ High-Speed, Image Processing at the Edge ▶ Max Scholz	
14:20-14:40	SVS-Vistek ▶ Make the invisible visible ▶ Stefan Waizmann	
14:40-15:00	XIMEA ▶ X-Ray Imaging – Camera and Sensor Technology ▶ Denis Lehmann	
15:00-15:20	RAUSCHER ▶ Dual-camera 3D laser profiler for precise, shadow-free 3D point clouds ▶ Andreas Huber	
15:20-15:40	Heliotis ▶ Industrial sub-micron precision 3D sensor for fast in/at-line inspection ▶ Istvan Biro	
15:40-16:00	Gpixel ▶ Latest CMOS Image Sensor developments for 3D Imaging ▶ Wim Wuyts	
16:00-16:20	Zivid ▶ Unleashing the potential in on-arm mounted 3D vision robotics ▶ Øyvind Theie	
16:20-16:40	elunic ▶ Use AI to an automatic in line 100% visual inspection for complex component ▶ Leo Vinzenz	
16:40-17:00	APREX SOLUTIONS ▶ The best of image processing technology, available in a single tool ▶ Romain BAUDE	

Session moderators

▶ Anne Wendel (VDMA Machine Vision) ▶ Paul-Gerald Dittich (SpectroNet) ▶ Patrick Schwarzkopf (VDMA Robotics + Automation) ▶ David Löh (inspect) ▶ Francesca Moglia (EPIC)