

# 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	Hall 8, Stand C70
10:00-10:30	<b>VISION 2021 - OPENING</b> An overview of trade fair highlights (Messe Stuttgart) and the latest market figures (VDMA Machine Vision) Roland Bleinroth (Messe Stuttgart), Mark Williamson (VDMA Machine Vision)	
10:40-11:00	Photonfocus ▶ <b>3D cameras for laser triangulation: Selecting wavelengths from UV to NIR</b> ▶ Thomas Wimmer	
11:00-11:20	AIT Austrian Institute of Technology ▶ <b>Highspeed inline computational microscopy system for industrial inspection</b> ▶ Prof. (FH) Dr. Lukas Traxler	
11:20-11:40	Basler ▶ <b>Technological Advancements in Industrial 3D Time-of-Flight Imaging</b> ▶ Thomas Kuhnke	
11:40-12:00	EVT Eye Vision Technology ▶ <b>Smart 3D Triangulation Sensor with MYRIAD Deep Learning Support</b> ▶ Michael Beising	
12:00-12:20	ams ▶ <b>Near Infrared 3D Sensing with Active Light Sources</b> ▶ Peter Vandersteegen	
12:20-12:40	Baumer ▶ <b>Overview of latest camera technology to address challenging applications</b> ▶ Mirko Benz	
12:40-13:00	Optomotive ▶ <b>HIGH-SPEED IMAGE PROCESSING BEYOND 100 Gbps</b> ▶ Barbara Rakovec Gorkic and Ales Gorkic	
13:00-14:00	<b>VDMA Machine Vision panel discussion Deep Learning: Much ado about nothing, again?</b> Dr. Dietmar Ley (BASLER), Jens Hülsmann (ISRA VISION), Dr. Olaf Munkelt (MVTec Software), Mark Williamson (STEMMER Imaging), Donato Montanari (Zebra Technologies) Moderated by David Löh, inspect	
14:00-14:20	MATRIX VISION ▶ <b>Embedded Vision – What was, what is, what will be</b> ▶ Horst Mattfeldt	
14:20-14:40	IMAGO Technologies ▶ <b>What's behind new technologies: AI, Deep Learning and Event-Based Vision?</b> ▶ Carsten Strampe	
14:40-15:00	Gidel ▶ <b>Overcoming the bandwidth limitations of vision on the edge</b> ▶ Reuven Weintraub	
15:00-15:20	MVTec Software ▶ <b>Let your applications benefit from deep learning technologies</b> ▶ Mario Bohnacker	
15:20-15:40	Prophesee ▶ <b>Revealing the invisible to machines with neuromorphic vision systems</b> ▶ Luca Verre	
15:40-16:00	Zebra Technologies Corporation ▶ <b>Using Barcode Reading and Machine Vision to Create Deep Learning Solutions</b> ▶ James Witherspoon	
16:00-16:10	KjLens ▶ <b>3D Inline-Plug Inspection</b> ▶ Dr. Klaus Illgner	
16:10-16:20	Musashi ▶ <b>An AI Model Architecture Designed To Solve Common Deployment Challenges</b> ▶ Martin Bufl	
16:20-16:30	Fasttree3D ▶ <b>Flash LiDAR based on time-resolved single-photon imaging sensors</b> ▶ Claude Florin	
16:30-16:40	Maddox ▶ <b>AI-based optical inspection for everyone with a "money-back guarantee"</b> ▶ Peter Droege	
16:40-16:50	HD Vision Systems ▶ <b>Pick-&amp;Place of Complex, Metallic Parts with Light Field &amp; AI</b> ▶ Dr. Christoph Garbe	

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

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

## Session moderators

▶ Anne Wendel, Patrick Schwarzkopf, Suprateek Banerjee (VDMA Robotics + Automation | Machine Vision)  
▶ Paul-Gerald Dittrich (SpectroNet) ▶ Klaus-Henning Noffz, BASLER ▶ David Löh (inspect) ▶ Francesca Moglia (EPIC)