3D Imaging Technolgies

- **5D Vision: Bringing Synchronized 2D and 3D Imaging to Machine Vision** - Teledyne e2v | Laurent Appercel
- **Pushing the boundaries with the next generation 3D camera** - SICK Vertriebs-GmbH / SICK IVP AB | Andreas Marinus
- **Solving High-Speed 3D Inspection with the World's Fastest Laser Profilers** - AT Sensors | Marco Brucculeri
- **A highly accurate, unit-specific camera temperature calibration** - Optonic GmbH | Rainer Voigt
- **From Images to Depth: When Sensors Drive Robotic Intelligence** - STMicroelectronics | Ha Lan DO THU
- **Laser Triangulation Solves New 3D Inspection Demands in AI Computing Era** - SinceVision Technology | Kevin Cheng

Beyond the Visible

- **Beyond standard vision: What can spectral imaging do for you today?** - Datavia BV | Dr. Pavel Paclik
- **What Does Your Machine Need to Know?** - Headwall | Dr. Matthias Kerschhaggl
- **How multispectral vision transforms food inspection** - JAI | James Cameron
- **Why Industrial Spectral Imaging Is Finally Taking Off** - HAIP Solutions GmbH | Tobias Kreklow
- **Beyond Visible: Unlocking Industrial Intelligence with UV, SWIR and LWIR** - Exosens | Sarah Montella
- **Stuck at 1%: the sorting gap holding back textile recycling** - Specim Spectral Imaging Oy Ltd | Sami Toljamo

Camera Technologies

- **From Photons to Decisions in Milliseconds: The High-Speed Vision Pipeline** - Allied Vision Technologies GmbH | Tobias Barl
- **High-Speed TDI Imaging for Semiconductor, Life Science, and Advanced Inspec** - Gpixel Microelectronics Inc | Wim Wuyts
- **Redefining High-Speed Vision with FPGA Processing and USB 10Gbps** - Toshiba Teli Corporation | Yusuke Kawachi
- **32k for Wafer Scale Imaging** - Teledyne Dalsa | Matt Moser
- **Multi-camera systems reimagined: Less effort, more possibilities** - Balluff GmbH | Olaf Reuter
- **Agentic Vision System Engineering** - Basler AG | Thies Moeller
- **High-Bandwidth Ethernet: A Game Changer in Cost for High-Performance Cameras** - Baumer Optronic GmbH | Carsten Traupe
- **Recent advances in high-speed imaging** - Caeleste bv | Jan Vermeiren
- **See, understand, react. Camera-based process monitoring** - IDS Imaging Development Systems GmbH | Marcus Rembold
- **32k Line Scan Imaging for High-throughput Semiconductor Inspection** - Allied Vision Technologies GmbH | Maximilian Klammer
- **From 1 Gbps to 5 Gbps Over the Same Cable: A Migration Path from GigE Vision to USB3 Vision.** - Valens Semiconductor | Jonathan Hawkey
- **5D Vision: Bringing Synchronized 2D and 3D Imaging to Machine Vision** - Teledyne e2v | Laurent Appercel

Imaging Standards

- **Global Vision Standards Update** - A3, CMVU, EMVA , JIIA and VDMA Machine Vision | Dr. Suprateek Banerjee (VDMA) et al
- **Standardized Integration of 2D Profile and 3D Sensor Data with GenICam** - wenglor sensoric elektronische Geräte GmbH | Nils Teichmann
- **Simplifying Multi-Camera GigE Systems with RDMA & Real-Time Synchronization** - LUCID Vision Labs, Inc. | Alexis Teissie

Lighting systems and Illumination technologies

- **High-Power Bar Light for Maximum Performance in Machine Vision Applications** - wenglor sensoric elektronische Geräte GmbH | Vincent Straßer
- **Illumination techniques for high speed Photometric Stereo using FPGA/GPU/CPU** - MST Vision Gmbh | Michael Stelzl
- **High-contrast edges thanks to the shadow-casting principle: Telecentr.Light** - Vision & Control GmbH | Dr.-Ing. Claudia Link
- **Digital precise timing: Synchronised lighting for faster Machine Vision** - evotron GmbH & Co. KG | Ingmar Jahr
- **Beyond Standard: High-Performance OEM Lighting for Machine Vision** - Leistungselektronik JENA GmbH | Dr. Jörg Wagner
- **LED Current Control for Reproducible High-Speed Machine Vision** - GEFASOFT Automatisierung und Software GmbH | Georg Schlaffer
- **Light it. Scan it. Trust it. Lighting and Laser for Logistics Applications** - Exaktera LLC | Linda Müller

Machine Vision Applications

- **Hygienic Machine Vision: Three Essential Design Principles** - Exaktera LLC | Povilas Dagilis
- **From Farm to Fork(lift) - End-to-End Food Inspection and Automation** - LUCID Vision Labs, Inc. | Brian Cha
- **Secure Design for Long-Lived Machine Vision Systems** - Stemmer Imaging AG | Luis López
- **Unveil defects and anomalies of surfaces for quality assurance with solino®** - Opto GmbH | Dr. Paul-Gerald Dittrich
- **AI-Powered 3D Robot Guidance for Sustainable Robotic Painting** - EVT - Eye Vision Technology | Michael Beising
- **SPEAR: Drones for infrastructure inspection and complex terrain monitoring** - BIODRONE | Paul Tenfjord

Machine Vision Software & AI

- **Open Vision Ecosystem with VIUx and ctrlX OS: Vision, PLC and AI** - evopro systems engineering AG | Stefan Kraus & Bosch Rexroth | Oliver Scheb
- **Training-free re-identification in industrial processes** - DENKweit GmbH | Dr. Dominik Lausch
- **AR and Deep Learning for Visual Quality Control** - CDMVision | Celaleddin Subasi
- **AI and 3D machine vision for the world's biggest workforce - the frontline** - Photoneo | Svorad Stolc & Zebra Technologies | Ritish Gupta
- **Why Application-Specific AI Still Matters in the Foundation Model Era** - Neurocle | Hongsuk Lee
- **From Hype to Hands-On: Practical Deep Learning for Industrial Vision** - MVTec Software GmbH | Christian Eckstein
- **Optikos: One Platform for AI based industrial inspection with Vision-GPT** - PARKVI GmbH | Parth Pandya

Optics and Filters

- **Optical Filter Designs for Modern Machine Vision: From UV to SWIR** - Delta Optical Thin Film A/S | Oliver Pust
- **Rectilinear Optics Reduce Compute Burden in Edge Machine Learning** - Theia Technologies | Mark Peterson
- **The Reliability Spectrum - Standard COTS to Mission-Specific Customization** - Schneider-Kreuznach | Magnus Greger
- **Optical Units: Maximizing Precision in Minimal Space** - VS Technology | Oliver Oehmichen
- **Integrated Filter-Switching Lens for Automated Multispectral Inspection** - CBC (Europe) GmbH | Kai Masberg
- **Single-Shot 12-Inch Wafer Inspection: Solving Coaxial Uniformity for AI AOI** - VICO Imaging | Victor Wei

Processor Technologies and Smart Cameras

- **Scalable Vision: From Embedded Systems to GPU Acceleration** - IMAGO Technologies | Christoph Siemon
- **Open Smart Cameras: Software Openness and Integration with Alecs** - Allied Vision Technologies GmbH | Vincent Krull
- **Beyond Neural Network Acceleration: FPGA Pipelines for Embedded Vision** - Efinix Inc | Andreas Büttner

VISION Start-Up pitch session

- **Real Global Shutter with HDR at pixel-level for Next-Gen CMOS Sensors** - EYE-TECH Srl | Monica Vatteroni
- **HylasVision is bringing a new standard for material sensing** - HylasVision / VTT LaunchPad | Jussi Soukkamäki
- **From Visible to SWIR: SPAD Cameras for Industrial Machine Vision** - NovoViz | Utku Karaca
- **Algorithm-Driven Optics: 63 Degrees of Freedom for AI-Controlled Imaging** - Phaseform GmbH | Pouya Rajaeipour
- **Single-Photon Vision: From Raw Data to Industrial Perception** - Ubicept | Sebastian Bauer
- **Big Models Teach. Small Models Inspect** - Rosepetal AI | Jose Racionero
- **Deploying Zero-Shot Vision Models for Immediate Industrial Usage** - Awentia Vision Technologies | Federico Frontali
- **World's first filter-free color splitting image sensor** - eyeo imaging | Jeroen Hoet
- **GigE Vision 3.0 in FPGA Hardware for High-Performance Vision Streaming** - imavix engineering | Jan Pech
- **Smart AI Inference Compiler** - siwave.io | Hanni B. Lozano
- **Synthetic Data for Next-Generation Computer Vision Systems** - Syntcraft | Matthias Kuch
- **DeepLained - Explainable and Validated AI for Industrial Vision** - Autolab-Next Automation GmbH | Thomas Benninger
- **Operator-Driven Instant Learning for High-Mix Manufacturing** - Memorence AI Co., Ltd. | Pai-Heng Hsiao
- **How Infrared Perception Is Shaping Industrial Machine Vision in Europe** - Raytron Microelectronics | Fushuai Liu
- **High-Speed Terahertz & AI Quality & Process Inspection Solutions** - TiHive | Hani Sherry
- **VISION Start-Up 2026 Award Ceremony**

VISION Award 2026

- **PHOTODEX: Breaking the Motion Barrier in Photometric Stereo, Mobile Inspection System for Intelligent, Robust Industrial Surface Analysis** - AIT Austrian Institute of Technology | Georg Kaniak
- **Odem - 4D Coherent Vision on a Single Chip: Native Per-Pixel Velocity for Machine Perception** - Lidwave | Yehuda Vidal
- **Virtualising Machine Vision** - Medabsy GmbH | Maximilian Grau
- **From Plenoptic Research to Industrial 3D Vision** - photonicSENS | Sergio Mantecon
- **From Light to Insight: Litavis Sensor Brings In-Pixel Processing to SPADs** - Singular Photonics | Shahida Imani
- **VISION Award Ceremony**

VDMA Machine Vision Panel Discussion:
From Seeing to Acting: Is Agentic AI Reinventing Machine Vision?
AUMOVIO Germany GmbH | Nuria Garrido Lopez
Intrinsic, an AI robotics group at Google | Martin Groher
IDS Imaging Development Systems GmbH | Jan Hartmann
Siemens AG | Noam Horovitz
Moderated by Tom Tiner, MVPro Media