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inVISION NEWS



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VISION News	4	Industrial VISION Days Program	8	Machine Vision Components – Statements & Products	11	Spectral Imaging – Statements & Products	24
Exhibitor List	6	Scientific VISION Days Program	10	AI & Embedded Vision – Statements & Products	20	Solutions & 3D – Statements & Products	27



Welcome back!

We are delighted to once again publish inVISION News, the official trade fair newspaper for VISION 2026. This reflects the ongoing, harmonious collaboration between Messe Stuttgart and inVISION, a partnership already well-established through the joint inVISION newsletter – the official industry newsletter for the VISION fair – and the inVISION Days online conference (www.invdays.com). With this issue, we aim to give you a preview of the many new developments and program highlights awaiting you at the world's leading trade fair for machine vision. We hope you enjoy your visit to VISION 2026.

Dr.-Ing. Peter Ebert,
Editor-in-Chief inVISION

Bastian Fitz,
Editor inVISION



VISION is the place where machine vision shapes the future – and in 2026, we will be writing the next chapter together. From 6 to 8 October Stuttgart will once again become the international meeting place for everyone who is passionate about developing, integrating or applying machine vision technology.

At VISION 2026, you'll experience the full spectrum of this cutting-edge technology: high-performance cameras and sensors, optics and lighting, smart software and complete systems. The focus will be on trending topics such as embedded vision, hyperspectral imaging, 3D image processing and AI – always with the question in mind: how can this be turned into a robust, scalable setup for your specific use case?

The trade fair is far more than just a product showcase. The Industrial VISION Days and Scientific VISION Days, as a globally unique knowledge platform, offer a wealth of expertise

from industry, research and application. With over 80 presentations, start-up pitches, expert panels and the latest research findings, the forum is the central hub for knowledge transfer and professional exchange. In the VISION Start-up World and at the BMW's Young Innovators joint stand, you'll discover the best young talent. In the VISION Integration Area, you'll find suppliers of turnkey system solutions for your specific requirements, whilst the IPC 4 VISION theme park offers a concise overview of the latest developments in the fields of industrial PCs, embedded computing and edge AI systems. With the VISION Makeathon, we are creating, for the first

time, a platform where students, up-and-coming talents and companies can work together on practical industrial image processing challenges.

The Synthetic Data Symposium is making its debut this year and explores how synthetic data can accelerate the development of AI-based image processing systems. And for those who want to delve deeper into specific applications, the VISION Guided Tours are the place to be. These tours are showing what machine vision is currently achieving in sectors such as Aerospace & Defence, Automotive & Battery, and Electronics & Semiconductors. For the first time, we are also offering special tours focusing on the interplay between AI and image processing.

Another highlight is the presentation of the prestigious VISION Award, which once again honours the industry's most groundbreaking innovations. VISION is also part of a unique autumn technology programme: your ticket grants you access to the parallel trade fairs Motek & Bondexpo (production and assembly automation / bonding technology), EFX – Expo for Electronics Manufacturing, and Quantum Effects – the trade fair and conference for Quantum technologies. Make sure you allow for time to explore, discuss and network. Bring your challenges with you – and take home new ideas, contacts and concrete solutions.

I look forward to welcoming you, together with the international vision community, to VISION 2026 in Stuttgart.

Florian Niethammer
Head of Trade Fairs & Events
Landesmesse Stuttgart GmbH & Co. KG

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Reflecting the Evolution of the Industry

Get ready. VISION, the leading trade fair for machine vision, returns to Stuttgart from 6-8 October 2026 for its 32nd edition. As the industry's premier meeting place, Vision brings together an unparalleled concentration of expertise, innovation, and market leaders from across the globe. All signs point to a successful VISION 2026:

- **Record Number of Exhibitors:** Around 500 exhibitors will showcase their latest innovations and technologies. One-third of them will be exhibiting at VISION for the first time, underscoring the industry's dynamism, innovative strength, and enduring appeal.
- **Valuable Knowledge Exchange:** The Industrial Vision Days will take place throughout all three days of the exhibition, featuring 22 sessions covering the latest trends in Camera Technologies, Optics & Filters, Lighting & Illumination, 3D imaging, Beyond-The Visible Technologies, Software and AI, Processing Technologies, Smart Cameras, Machine Vision Applications, and Imaging Standards. Highlights also include the VDMA panel discussion, the Vision Award session, and the daily Vision Startup Pitch Sessions.
- **Startup Innovations:** Around 30 start-ups will present their ideas and technologies alongside established industry leaders at the VISION Startup World and the BMWK Young Innovators Pavilion, organized by the German Federal Ministry for Economic Affairs and Climate Action.
- **A Truly International Event:** More than two-thirds of exhibitors come from outside Ger-

many, led by companies from China, the United States, Great Britain and Ireland, Switzerland and Japan. This once again underlines Vision's importance as the global machine vision industry's central meeting point.

Join us in Stuttgart, get inspired, and experience the innovative power of the machine vision industry while witnessing its ongoing transformation first hand. The VDMA Machine Vision team looks forward to welcoming you to VISION 2026!

Anne Wendel

Director VDMA Machine Vision Group
Landesmesse GmbH + Co. KG Stuttgart
Messe Vision 2024
www.messe-stuttgart.de



Image: VDMA e.V.

Welcome at VISION 2026



Thomas Lübckemeier
General Manager, EMVA – European Machine Vision Association

The European Machine Vision Association (EMVA) is happy to welcome you to VISION 2026, the world's leading trade fair for image processing! VISION is the place to be for everyone in this industry, and the EMVA feels proud to play an important role at this year's trade show again.

Once again, we are the leading organizer of the 'International Machine Vision Standards' booth. Machine vision experts will present the main hardware and software interface standards in the industry in their current versions at booth 8E46 in hall 8 – Co-Exhibitors are A3 (USA), CMVU (China), JIIA (Japan) and VDMA (Germany). Take advantage of these experts' knowhow to learn about the technical details and benefits of the available interfaces.

One of the most important issues currently facing the industry is the Cyber Resilience Act (CRA), introduced by the European Union (EU), as it will have far-reaching implications for the entire machine vision community. December 11, 2027, is a key deadline for all companies manufacturing or distributing products with

digital elements. If components or systems do not comply with the requirements of the extended CE marking, they will no longer be permitted to be distributed in Europe. The GenlCam software standard, managed by the EMVA, is among the technologies that are affected by the CRA. As a result, the association must and will ensure that the transition of GenlCam in accordance with the CRA requirements is completed on time.

The EMVA wishes all VISION exhibitors and visitors three successful days in Stuttgart! Take this opportunity to exchange ideas with industry experts about technological and market trends, learn about the latest developments, and network with machine vision professionals. There's hardly a better place for this than the VISION show in Stuttgart!

Thomas Lübckemeier

General Manager
EMVA – European Machine Vision Association
www.emva.org

Image: EMVA – European Machine Vision Association



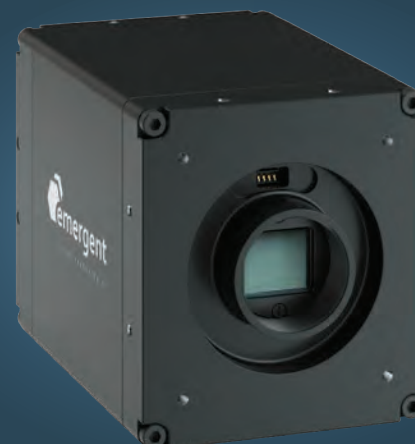
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emergentvisiontec.com/vision2026

Hall 8 ◆ Stand C36



VISION Makeathon

The VISION Makeathon will take place for the first time as part of the VISION. Interdisciplinary teams will work on a practical challenge related to Machine Vision within a single day at the fair, exploring future topics such as AI, embedded vision, 3D imaging, and hyperspectral imaging. The teams will be supported by exhibitors (Allied Vision, Evopro, IDS, MVTec,...) as well as the VDMA and ITQ. ■

Free VISION Tickets



inVISION offers you the opportunity to obtain free tickets for the VISION trade fair. Using the QR code and the voucher code INVISON2026, you can easily download your free ticket for VISION 2026 in just a few minutes. ■

Premiere: Synthetic Data Symposium

For the first time the Synthetic Data Symposium (Conference West, Room W1, above Hall 10) will take place at the VISION on October 7 and 8. Fraunhofer IPA and Fraunhofer ITWM are bringing together leading minds from research and industry. The symposium offers an compact of the latest trends, technologies and best practices relating to synthetic data for industrial machine vision – from the simulation of complex production environments to the generation of training data for deep learning. You need a special ticket for the symposium! ■

Intern. MV Standards Booth

The show 'International Machine Vision Standards' will be organised by the EMVA (Europe). Through cooperation with the associations A3 (North America), CMVU (China), JIIA (Japan) and VDMA (Germany), visitors will get a global insight into the world of machine vision standards like CameraLink, CoaXPress, CameraLink HS, GigE-Vision or USB3. Other standards and topics which will be shown at the booth are Lens Mount, EMVA 1288, GenICam, VDI/VDE/VDMA 2632 and VDMA OPC Vision. ■

▼ Hall 8 | Booth E46

Trade Fair Party Vision Components

Vision Components is celebrating its 30th company anniversary at the VISION trade fair and invites all trade fair visitors to join the celebration. The party will take place on Wednesday, October 7, from 5 p.m. in the Food Court of Hall 8. ■



Image: Landesmesse Stuttgart GmbH & Co. KG



My 3 VISION Tips

1. Be sure to check out the Industrial Vision Days and the Scientific Vision Days lecture program beforehand.
2. Don't miss the Synthetic Data Symposium, which is taking place for the first time. Important: You need a separate ticket for the symposium.
3. Plan to visit VISION on a Tuesday or Thursday. Wednesdays are usually much more crowded, meaning exhibitors have less time to answer your questions.

International Pavilions

Numerous international pavilions from various countries exhibit at VISION, where you will find companies from the regions, like China (▼ Hall 10 | Booth G30-34), France (▼ Hall 10 | Booth E76), Japan (▼ Hall 10 | Booth C72), Switzerland (▼ Hall 10 | Booth G20), Taiwan (▼ Hall 10 | Booth C60)... More details at the Exhibitor Index.

Spectronet Joint Booth

In ▼ Hall 10 | Booth C16 you will find the joint booth of Spectronet, where the following companies will be exhibiting: 4H Jena Engineering, AIM Micro Systems, Delta Optical Thin Film, Epigap OSA Photonics, LEJ, Optomotive, Spectronet...

Vision Startup World

Over 20 startups from the field of machine vision can be discovered in the VISION Startup World (▼ Hall H8 | Booth E60), including Eyeo, Medabsy, One Ware, Prospectral, VTT Technical Research Center of Finland...

BMW Joint Booth

In ▼ Hall 10 | Booth E70 you will find the BMW Joint Booth (Federal Ministry of Economics and Energy) where young companies from Germany – like Denkweit, Haip Solutions, Lightsource.tech, Oculyze, ParkVI, PCB Arts, Peak Vision, Promwad... – are showing their machine vision expertise.

Free VISION App for your Smartphone

With the free VISION app, you can keep your trade fair appointments, exhibitor list, lecture schedules, and more right at hand on your smartphone. The free VISION app is available for Android and iOS.

IPC 4 Vision Booth

A joint booth dedicated to industrial PCs for machine vision and AI vision will be featured in ▼ Hall 8. Participants include Aaeon, Advantech, Alma, Arbor, Auvideo, Lexcom, Neousys, Nodka, Sintrones, Spectra, Vecow, and others.

Scientific VISION Days Forum



The Scientific VISION Days are organised by AIT Austrian Institute of Technology and its partners. The presentations are coming from

science and applied research speaking about the latest research results include 3D Vision, High Speed Imaging, Inline Computational

Imaging, and Deep Learning. You will find the forum at Hall 8, Booth C50 ■

▼ Hall 8 | Booth C50



Guided Tours

VISION offers guided tours covering various application areas of industrial machine vision. During the trade fair, tours focusing on Electronics & Semiconductors, Aerospace & Defence, and Automotive & Battery will take you directly to exhibitors offering relevant solutions. An advance registration is required.

Motek, EFX & Quantum Effects



Three other trade fairs are taking place at the Stuttgart Trade Fair Center together with VISION, which you can visit free of charge with your VISION ticket: Motek can be found in Halls 4 and 6, Quantum Effects (Quantum technology) will be held in Hall 2 on the first two days of the fair (October 7 and 8) and EFX (Expo for Electronics Manufacturing) takes place in hall 9.

VISION
Award 2026

Integration
Area

With the VISION Award a jury awards the best innovation from the field of machine vision with a prize of €3,000. Out of 75 entries the following five companies are nominated: AIT Austrian Institute of Technology, Lidwave, Medabsy, PhotonicSens and Singular Photonics (in alphabetical order). The winner will be announced during VISION.

40% of all VISION visitors are looking for turn-key vision systems for inspection, robot guidance, quality control and identification. These people should have a look at the Integration area in hall 10 where they can find companies like Alfavision, Compar, Gefasoft, IOS, Kestrelleye, SmartMore, V& Vision & Robotics, Visotec...

Industrial VISION Days Forum



Organised by the VDMA Machine Vision and the VISION the Industrial Vision Days – the world's largest lecture forum for machine vision – will give with more than 70 presentations, a panel discussion, daily Startup pitches and the presentation of the VISION Award an overview about all aspects of machine vision.

Hall 8 | Booth C70

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VISION 2026 Exhibitor Directory

1, 2, 3...

24 VISION a.s.	.H8 E60.25
36ZERO Vision GmbH	.H10 B24
3A Mechatronic CO., LTD.	.H10 C60
3M Japan Limited	.H10 C72.3
4H Jena Engineering GmbH	.H10 C16

A

A3	.H8 E46
AAEON Technology Europe B.V.	.H8 C19
Abtics SAS	.H10 H33
Active Silicon Ltd.	.H10 F59
Advanced Illumination, Inc.	.H10 C50
ADVANTECH Europe B.V.	
Zweigniederlassung Deutschland	.H8 D12
AG OPTICS CO.,LTD	.H10 B88
AHF analysentechnik AG	.H10 A70
AI4IV Srl	.H8 E60.20
AIM Micro Systems GmbH	.H10 C16
AIT Austrian Institute of Technology GmbH	
High Performance Vision Systems	.H8 C50
Aktantis	.H10 E76
alfavision GmbH & Co. KG	.H10 H19
Alkeria S.r.l.	.H8 C43
Allied Vision Technologies GmbH	.H10 F30
Alma Technologies S.A.	.H8 B14
Altera	.H10 G10
Alysium-Tech GmbH	.H8 E30
Andon Electronics Corp.	.H8 C03
Anhui Rockcom Technology Co., Ltd.	.H8 A50
Antaira Technologies Sp. z o.o. Antaira Europe	.H8 D92
Anteryon BV	.H8 B64
AOS Technologies AG	.H10 G11
Aqrose GmbH	.H8 B50
ARBOR Technology Corp.	.H8 D16
ARDOP Lighting	.H10 E76
Argutec, s.r.o.	.H10 A59
Artificial Pixels GmbH	.H8 E60.8
ARTRAY Co., Ltd.	.H10 C15
Ash Technologies Ltd.	.H10 B72
AT Sensors	.H10 E55
AutoLab – NextAutomation GmbH	.H10 G87
autoVimation GmbH	.H10 C50
Auvideo GmbH	.H8 D18
Avnet Silica Avnet EMG GmbH	.H10 D17
Awentia Srl	.H10 G16
AZURE Photonics Co., Ltd	.H10 B60

B

Baitella AG – FISSO	.H10 E04
Balluff GmbH	.H8 D26
BASLER AG	.H8 D56
Baumer GmbH	.H8 D40
Beckhoff Automation GmbH & Co. KG	.H10 F10
Befort Wetzlar OD GmbH	.H10 B20.2
Beijing BOPIXEL Technology Co., Ltd.	.H10 F58
Beijing Daheng Imaging Technology Co., Ltd.	.H8 D60
Beijing Laserwave Optoelectronics Technology Co., Ltd.	.H10 G34.2
Best Integration Technology Co., Ltd	.H10 A60

BIGFRAME TECHNOLOGY CO., LTD	.H10 A27
BIGNUCOLO SRL	.H8 E49
Birger Engineering, Inc.	.H8 E48
Boowon Optical Co., Ltd.	.H10 G83
BoXin Photoelectric Co., Ltd. Canada Office	.H10 H57
Brigates Microelectronics Inc.	.H10 D24
Bte Bedampfungstechnik GmbH	.H10 G37
Büchner Lichtsysteme GmbH	.H10 H58

C

Cadida Software GmbH	.H8 C20
Caeleste BV	.H8 B21
Cambridge Electronic Industries Ltd	.H10 A76
Canon Deutschland GmbH	.H10 F57
Catana Corporation Limited	.H10 C72.1
CBC Europe GmbH	.H10 H14
CCS Europe N.V.	.H10 E54
CDMvision YAZILIM HIZMETLERI	
TICARET ANONIM SIRKETI	.H10 H37
CenturyArks Co., Ltd.	.H10 C72.6
Changshu Desheng Optics Electronics Co., Ltd.	.H10 A73
China Machine Vision Union	.H8 E46
Chroma Technology GmbH	.H10 H63
Chunghwa Leading Photonics Tech Co., Ltd.	.H10 G75
Clear View Imaging Ltd.	.H10 D81
ClydeHSI & Technology Ltd.	.H10 H30
Commonlands LLC	.H10 A28
COMOSS ELECTRONIC COMPANY LIMITED	.H10 C11
Compar AG excellence in machine vision & robotics	.H10 E02
Components Express LLC, CEI	.H10 D70
Connect Tech Inc.	.H8 C24
CoolLED Ltd.	.H10 B62
Copartner Technology Corporation	.H10 C60
Corning Varioptic SAS	.H10 B48
Crevis Co., Ltd.	.H10 B83
CryLight Photonics Inc.	.H10 A35
Crytur, spol. s r.o.	.H10 C88
CSEM Centre Suisse d'Electronique et de Microtechnique SA	.H10 G20.3
Cubert GmbH	.H10 D12

D

DAB-Embedded	.H10 G14
Daitron Netherlands B.V.	.H10 H10
DAQ SYSTEM Co., Ltd.	.H10 A50
Datavia BV	.H10 A90
Daystar GmbH	.H10 H51
DC Vision Systems GmbH	.H10 D04
DCM Sistemas S.L	.H10 D84
de Jonge GmbH	.H10 C06
DEEPX Co., Ltd.	.H10 D17
Delta Optical Thin Film A/S	.H10 C16
DELTADEC S.A.	.H10 B21
DENKweit GmbH	.H10 E70.4
DigiEye Digitalzation Technologies	.H10 E81
dk FIXIERSYSTEME GmbH & Co. KG	.H10 C08
Doctor Optics SE	.H10 G74
Dongguan CST	
Automation Technology Co.,LTD	.H10 G34.4
Dongguan Dafan Optics Technology Co., Ltd.	.H10 H22

Dot Vision Limited	.H10 A53
DOWA ELECTRONICS MATERIALS CO., LTD.	.H10 A74
DZOPTICS	.H10 F73

E

e-con Systems GmbH	.H10 H60
E-tec Interconnect AG	.H10 G71
EASII IC	.H8 E12
Eastar GmbH	.H10 H31
Edmund Optics GmbH	.H8 C30
EDP Sciences	.H10 G85
EFFILUX SAS	.H10 E54
EFINIX GmbH	.H8 A56
Emergent Vision Technologies Inc.	.H8 C36
EMVA European Machine Vision Association	.H8 E46
Entner Electronics GmbH	.H10 D85
EPIC - European Photonics Industry Consortium	.H10 A10
EPIGAP OSA Photonics GmbH	.H10 C16
ESPROS Photonics AG	.H10 G20.4
Etesian Semiconductor Ltd	.H10 D19
Europa Science Ltd.	.H8 D90
Eurotech S.p.A.	.H10 G76
EverPro Technologies Company Ltd.	.H8 E31
eVision Systems GmbH	.H8 A56
evopro systems engineering AG	.H10 G48
evotron GmbH & Co. KG	.H10 H26
EVT Eye Vision Technology GmbH	.H10 G57
Exaktera LLC	.H10 C50
Excelitas Deutschland GmbH	.H10 E51
EXOSENS	.H8 C33
EYE2DRIVE	.H10 G41
eyeo	.H8 E60.9

F

FALCON Illumination MV GmbH & Co. KG	.H10 G50
Feinwerkoptik Zünd AG	.H10 G20.2
FJW Optical Systems, Inc.	.H10 F52
FLC – Frankfurt Laser Company GmbH	.H10 E90
Forza Silicon Corporation A Unit of Ametek	.H10 B82
FRAMOS GmbH	.H10 C40
Fraunhofer-Institut für Angewandte Optik und Feinmechanik IOF	.H10 C92
Fraunhofer-Institut für Produktionstechnik und Automatisierung IPA	.H10 D57
FUJIAN CHENGTE OPTICAL TECHNOLOGY CO LTD	.H10 G21
Fujian RISING EO Technologies CO.,LTD	.H10 A72
Fujifilm Germany GmbH Electronic Imaging Department	.H10 F50
Fuzhou Hundreds Optics Inc.	.H8 E17
Fuzhou Tiin Optics Co., Ltd.	.H10 A14

G

Gardasoft Vision Ltd.	.H10 E54
GBS metrology GmbH	.H10 C53
GEFASOFT Automatisierung und Software GmbH	.H10 F02
GENESI ELETTRONICA SRL	.H8 E24
Gesellschaft für Technische Kommunikation - tekcom Deutschland e.V.	.H8 E51
Gestione Silo S.r.l.	.H10 B73
Gidel Ltd.	.H8 D20
GipsVision SARL	.H10 E76
Goertek Optical Technology Co., Ltd.	.H10 G32.1
GOYO Optical Inc.	.H10 G31
Gpixel Microelectronics Inc.	.H10 E41
GREI AI INNOVATIONS	.H8 E60.10
Guizhou Juying Technology Co., Ltd.	.H10 H53

H

HAIP Solutions GmbH	.H10 E70.8
Hamamatsu Agency for Innovation Photon Valley Center	.H10 C72.1 H10 C72.2
Hangzhou Zhongwei Optics Co., Ltd.	.H10 B40.2
Headwall	.H10 D23
Helbling Technik Wil AG	.H10 F90
Helion GmbH	.H8 E10
Heliotis AG	.H10 C71
Henan Yixuan Photoelectric Technology Co., Ltd.	.H10 A71
High Speed Vision GmbH	.H10 B30
Hikrobot Europe B.V	.H8 B30
Hinalea Imaging Corp.	.H10 G89
HIRAKAWA HEWTECH CORP.	.H10 G51
Hitronics Technologies, Inc.	.H8 E15
HONGKONG VICO TECHNOLOGY LIMITED	.H8 A54
HORIBA	.H10 E76
Hunan Chiopt Optical Technology Co., Ltd.	.H10 G30.1 H10 G30.1
HylasVision/VTT LaunchPad	.H8 E60.12
HySpex, Norsk Elektro Optikk A/S	.H10 D88

I

i2S - be visionary	.H10 G35
iCore Co., Ltd.	.H8 B41
IDS Imaging Development Systems GmbH	.H8 C60
IDT - Integrated Design Tools Inc.	.H8 B29
ifm electronic gmbh	.H10 D30
IGSO LTD	.H8 Z01
iIM GmbH	.H10 C50
Image Access GmbH	.H10 C84
IMAGO Technologies GmbH	.H8 C26

IMASENIC Advanced Imaging S.L	.H10 H38
imavix engineering s.r.o.	.H8 E60.22
Imperx Inc.	.H10 F92
IMT Masken und Teilungen AG	.H10 G20.1
Indian Machine Vision Association (IMVA)	.H8 A32
Industrial VISION Days Stage	.H8 C70
Infineon Technologies AG	.H8 B13
InfraTec GmbH Infrarotsensorik und Messtechnik	.H8 E21
InoNet Computer GmbH	.H10 G76
INSNEX Technologies Co., Ltd	.H8 A21
Intercon 1 by Nortech Systems	.H8 B43
intoPIX SA	.H10 A75
INVENTIO.AI	.H10 C90
IOS Innovative Optoelektronik und Steuerungssysteme GmbH	.H10 F06
IRnova AB	.H10 H15
IS - Imaging Solutions GmbH	.H8 B29
ISDI	.H8 C07
Isuzu Glass Ltd.	.H10 A21
Itoh Optical Industrial Co., Ltd.	.H10 H13

J

JAI A/S	.H10 C18
Japan Bopixel Co., Ltd.	.H10 F58
Japan Industrial Imaging Association	.H8 E46
Japanese Industrial Imaging Association	.H10 C72.4
JD Photo Data Ltd	.H10 G65
JenCam GmbH	.H8 E40
Jetro Hamamatsu	.H10 C72.2
Jiangsu Huaying Intelligent Technology Co, Ltd	.H10 G30.2
Jilin Qiushi Spectrum Data Technology Co., Ltd.	.H10 A41
Jobboard / Career Center	.H10 G92

K

KCM Fraunhofer IOSB Sichtprüfsysteme (SPR)	.H8 E53
KESTRELEYE GmbH	.H10 E12
KEYENCE DEUTSCHLAND GmbH	.H10 E20
Keysight Technologies	.H10 F86
Kithara Software GmbH	.H8 C12
Kolibri GmbH	.H10 E12
Kowa Optimed Deutschland GmbH	.H10 C66
Kurokesu UAB	.H10 B35

L

L.E.S.S. SA	.H10 B22
Landesmesse Stuttgart GmbH & Co. KG	.H8 B90 H10 A63
LASER COMPONENTS Germany GmbH	.H10 D15
Lattice Semiconductor GmbH	.H8 E10
Leimac Europe GmbH	.H10 A36
LEJ - Leistungselektronik JENA GmbH	.H10 C16
Lensation GmbH	.H10 F41
lentiltec gmbh	.H10 B20.1
Leopard Imaging Inc.	.H10 G79
Lexcom B.V.	.H8 C13
Lidwave Ltd.	.H8 E60.14
lightsource.tech GmbH	.H10 E70.3
LinkOptics Co.,Ltd.	.H10 H24
Linkreal Co., Ltd.	.H10 B36
LIPS Corporation	.H10 C60
LLA Instruments GmbH	.H10 B23
Lobre srl	.H10 B75
LUCID Vision Labs. Inc.	.H10 E40
Lucius Technologies (Suzhou) Co., Ltd.	.H10 A23
LUMITRONIX LED-Technik GmbH	.H10 H68
Lumotive, Inc.	.H10 A85
LUSTER LightTech Co., Ltd.	.H10 C18
Luxima Technology LLC	.H10 A16
Lynred	.H8 C42

M

Machine Vision Lighting Inc.	.H10 C72.7
Machine Vision Shop	.H8 A40
Macnica ATD Europe	.H8 D30
Makeathon	.H10 H90
Materion Balzers AG	.H10 G39
Matthias Wetzel INDUSTRIEBESCHRIFTUNGEN GmbH	.H10 E72
MaxxVision GmbH	.H8 C25
MBJ Imaging GmbH	.H8 B56
Mech-Mind Robotics GmbH	.H10 E24
Medabsy GmbH	.H8 E60.2
Meerecompany Inc.	.H8 A18
Mega Phase Technology International Ltd.	.H10 G30.3
Memorence AI Co., Ltd.	.H8 E60.13
Metaphase Lighting Technologies Inc.	.H10 B67
Metrology Sensors GmbH	.H10 A31
Meyer Optik Görlitz GmbH	.H10 A51
MICRO-EPSILON Messtechnik GmbH & Co. KG	.H10 C30
Midwest Optical Systems, Inc. MIDOPT	.H10 F52
Ming Chi University of Technology	.H10 C60
Mitsubishi Electric Europe B.V. Factory Automation - CIS	.H10 F34
Mitutoyo Deutschland GmbH	.H10 C80
Mountain Photonics GmbH	.H10 H30
MPS Micro Precision Systems AG	.H10 G20.8
MRTech SK s.r.o.	.H8 D03
MSD GmbH	.H10 H50
MSTVision GmbH	.H10 G70
MTD GmbH	.H10 D42

Murrelektronik GmbH	.H10 D16
MV Pro Media	.H10 A30
Mvotem Optics Precision Optical Instrument Co., Ltd.	.H10 H34
MVTec Software GmbH	.H8 C56
Myutron Inc.	.H8 C23

N

N.A.T. Gesellschaft für Netzwerk- und Automatisierungs-Technologie mbH	.H10 H46
Neousys Technology Inc.	.H8 C11
Nermin Private Limited	.H8 E60.15
NeuroCheck GmbH	.H8 D70
Neurocle Inc.	.H8 B11
Neusion Optics Co., Ltd	.H10 A43
New Imaging Technologies (NIT)	.H8 C42
Next Events & Conferences	.H10 B37
nextScan	.H8 C08
NEXVISION SAS	.H10 E76
Nippon Electric Glass Co., Ltd	.H10 H17
Nippon Electro-Sensory Devices Corp. (NED)	.H8 A52
Nireos SRL	.H10 H30
Nodka Automation Technology	.H8 D15
NorPix, Inc.	.H8 C18
Novitec Co., Ltd.	.H10 F61
NovoViz	.H10 H35
Novus Media Today Group, LLC	.H10 H74
NTKJ CO, LTD	.H10 B76

O

Oculyze Automation GmbH	.H10 E70.6
OmniVision Technologies, Inc.	.H10 D10
ONE WARE GmbH	.H8 E60.16
onsemi	.H10 D51
Openex Intelligence Technology(Shanghai) Co., Ltd.	.H10 H71
Oppila Microsystems Pvt. Ltd.	.H10 A89
OPT Machine Vision GmbH	.H8 A61
optics.org (Spie Events Europe)	.H8 C02
Optikron GmbH	.H10 B27
Optivac AG	.H10 G20.6
Opto Engineering S.p.A.	.H8 D48
Opto GmbH	.H10 C46
Optomech GmbH	.H10 A54
Optomotive d.o.o.	.H10 C16
Optonic GmbH	.H10 C87
OptoSigma Germany GmbH	.H8 E60.7
Optotune Switzerland AG	.H10 G25
OPTOWL Co., Ltd. German Branch	.H10 F53
Optronis GmbH	.H10 C59
ORAFOL Fresnel Optics GmbH	.H10 A13
Osela Inc.	.H8 A12
Ouster France SAS	.H10 H11

P

PARKVI GmbH	.H10 E70.2
PCB Arts GmbH	.H10 E70.1
Peak Vision GmbH	.H10 E70.7
Pecchioli Research Srl	.H10 G52
Percipio Technology Ltd.	.H10 E58
Phaseform GmbH	.H8 E60.19
phil-vision GmbH	.H8 A01
Phlox	.H10 E76
Photolithics OOD	.H10 H55
Photon Lines	.H10 E76

Photonfocus AG	.H10 D40
PhotonicSENS	.H10 C33
Photron Europe Ltd.	.H10 A11
PHYTEC Messtechnik GmbH	.H8 C16
Pi Imaging Technology SA - a ZEISS company	.H10 G20.7
Pi Photonics	.H10 C72.1
PIE Co., Ltd.	.H10 F94
Piezolution GmbH	.H10 F41
planistar Lichttechnik GmbH	.H10 C10
Pleora Technologies Inc.	.H8 B02
POG Präzisionsoptik Gera GmbH	.H10 B28
poLight ASA	.H10 B84
Präzision als Maßstab FAKT KOMMUNIKATION	.H10 E72
Precitec Optronik GmbH	.H10 G58
Prediktera AB	.H10 D88
Prodrive Technologies B.V.	.H10 E59
Promwad GmbH	.H10 E70.10
ProPhotonix Ireland Office - LED Solutions	.H10 C50
Prospectral Ltd	.H8 E60.17
Pure Spectra Ltd.	.H8 A52
Pyxalis	.H10 E76

Q

QDI Systems	.H10 A32
Qtechnology A/S	.H10 D90
Quantum Design GmbH	.H10 G11

R

RAUSCHER GmbH	.H8 C48
Raytron Microelectronics Co., Ltd.	.H8 E19
Resolve Optics Ltd.	.H10 G44
RESTAR FRAMOS Technologies GmbH	.H10 C40
RETINA	.H10 A10
REVOX, Inc.	.H8 C04
Robosensor Technologies, Inc.	.H10 C72.2
Rosepetal AI	.H8 E60.5
Ruien Photoelectric Co., Ltd.	.H10 H51
RUTRONIK Elektronische Bauelemente GmbH	.H8 D16

S

S.I.E System Industrie Electronic GmbH	.H8 C22
Schäfter + Kirchhoff GmbH	.H10 C19
Schneider-Kreuznach	.H10 D56
Sczesny Werkzeugbau GmbH	.H10 E72
Seiwa Optical Europe GmbH	.H10 B11
Senssight	.H10 B25
Senwaylight (Shenzhen) Co., Ltd	.H10 G34.3
Shanghai Magnity Technologies Co., Ltd.	.H10 B40.1
Shangrao Walan Optics Technology Co., Ltd	.H10 H72
Shenzhen Agilebull Technology Co., Ltd.	.H10 C76
Shenzhen Canrill Technologies Co., Ltd.	.H10 F15
Shenzhen Euoway Technology Co., Ltd.	.H8 C06
Shenzhen Mindvision Technology Co., Ltd.	.H10 G32.2
Shenzhen RGBIC	
Microelectronics Technology Co., LTD	.H10 G34.1
Shenzhen Robotics Association	.H10 D11
Shin-Etsu MicroSi, Inc.	.H10 H66
SICK Vertriebs-GmbH	.H10 D41
Siemens AG Siemens Deutschland	.H10 F11
Sightwise GmbH	.H8 C05
SILIOS TECHNOLOGIES	.H10 E76
Sill Optics GmbH	.H10 G45
SiMa.ai	.H10 B10

SinceVision Technology	.H8 A30
Singular Photonics Ltd	.H8 D47
SINTRONES Technology Corp.	.H8 D14
Siwave Corporation	.H8 E60.6
skoopia	.H8 E35
Smart Vision Lights	.H10 D54
SmartMore Corporation Limited	.H10 E10
SODA VISION PTE LTD	.H8 C92
SOLOMON Technology Corporation	.H10 C54
Sony Europe B.V.	.H10 C40
SONY Europe B.V. ISS-	
Image Sensing Solution Europe	.H10 C34 H8 E40
SPEAR	.H10 F36
Specim, Spectral Imaging Ltd.	.H10 D80
Spectra GmbH & Co. KG	.H8 B23
Spectral Devices Inc.	.H10 H30
Spectricity	.H10 G63
Spectricon	.H10 C85
Spectrogon AB	.H10 H40
SpectroNet c/o Technologie- und Innovationspark Jena GmbH	.H10 C16
Spectros AG	.H10 G20.5
SphereOptics GmbH	.H10 B50
SPO Inc.	.H10 F41
Statelab Limited (State Labs)	.H10 D11
STEMMER IMAGING AG	.H10 A81 H10 F16
Sterelabs SAS	.H10 H11
STMicroelectronics International N.V.	.H10 C41
Strelen Control Systems GmbH	.H10 G70
Sumitomo Electric Industries, Ltd.	.H10 A39
SuperLight Photonics B.V.	.H8 E60.18
Suzhou LightIns Optical Co., Ltd	.H10 A77
Suzhou Oi-Smart Technology Co., LTD	.H10 G32.4
Swarovski-Optik AG & Co. KG.	.H10 F54
SYNTRCRAFT GmbH	.H8 E60.21
SZ SENSING TECH CO.,LTD	.H10 G73

T

Taiwan Electrical and Electronic Manufacturers' Association	.H10 C60 H10 C54
Tamron Europe GmbH	.H10 D32
TechNexion Ltd.	.H10 D53
TeDo Verlag GmbH	.H10 G02
Teledyne	.H8 B10
tensorleap	.H8 E60.3
The Imaging Source Europe GmbH	.H10 E50
Theia Technologies	.H10 A47
Tichawa Vision GmbH	.H10 H20
TiHive SAS	.H10 G82
TMS Lite Sdn Bhd	.H10 B78
TORDIVEL AS	.H10 H75
TorqueAGI	.H10 G86
Toshiba Teli Corporation Overseas Sales Department	.H8 C27
Tower Semiconductor Ltd.	.H10 B68
TOYOTEC Co., Ltd. German Representative Office	.H8 D01
TPL Vision SAS	.H8 C61
TRS-STAR GMBH	.H10 C06
Tucsen Photonics Co., Ltd.	.H8 B25
TXT E-Tech	.H8 D48

U

Ubicept, Inc.	.H10 H82
UNI Optics (Fujian) Co., Ltd	.H10 G66

Union Image Co., Ltd.	.H10 D11
Universe Kogaku (America) Inc.	.H8 E37

V

V&R Vision & Robotics GmbH	.H10 H12
VA Imaging / GeT Cameras GeT Components Group B.V.	.H8 D60
Valens Semiconductor	.H10 F80
VDMA Fachabteilung Machine Vision	.H8 E46
VDMA Services GmbH Fachgruppe Machine Vision	.H8 E55
Vecow Co., Ltd.	.H8 C15
VIAVI Solutions	.H10 B12
Vieworks Co., Ltd.	.H10 E30
Visage Technologies d.o.o.	.H8 C21
Vision & Control GmbH	.H10 B87
Vision Components GmbH	.H8 C31
VISION Food Court	.H8 B70
Vision Research, Inc. Headquarters	.H10 B82
Vision Spectra/Laurin Publishing Co., Inc.	.H10 B02
VISION Start-Up World Storage	.H8 E92
Vision Systems Design	.H10 C02
Visotect GmbH	.H10 F04
Vista Innotech Limited	.H8 E39
VoxelSensors	.H10 F36
VS Technology	.H10 F70
VY Optoelectronics Co.,Ltd.	.H10 H77

W

WDI Wise Device Inc.	.H10 B71
Weihai Hualing Opto-Electronics Co.,LTD.	.H10 F84
wenglro sensoric GmbH	.H8 C61
Wickon Hightech	.H8 A10
Wiley-VCH GmbH	.H10 A02
Wintech Digital System Technology Corp.	.H10 A83
WTS PHOTONICS CO.,LTD	.H10 G32.3

X

Xiamen Leading Optics Co., Ltd.	.H10 B58
XIMEA GmbH	.H10 D50

Y

Yuridenki-Shokai Co. Ltd.	.H10 C72.5
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Z

Z-LASER GmbH	.H10 C50
Zaber Technologies Inc.	.H10 G61
Zebra Technologies Europe Ltd	.H8 B40
Zhejiang Huaray Technology Co., Ltd.	.H8 E20
Zivid AS	.H10 E53
ZYGO / NAVITAR	.H10 C57

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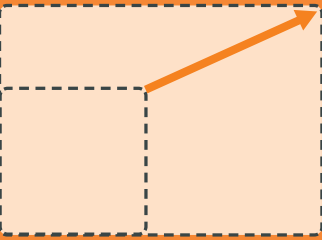
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Industrial VISION Days 2026

The world largest lecture forum for machine vision – Hall 8, Booth C70

Time	Tuesday, 6 October 2026
	09:10 - 09:20 VDMA Machine Vision VISION 2026 Opening and Market Update
	09:20 - 09:40 Allied Vision Gilching GmbH From Photons to Decisions in Milliseconds: The High-Speed Vision Pipeline
	09:40 - 10:00 Gpixel Microelectronics Inc High-Speed TDI Imaging for Semiconductor, Life Science, and Advanced Inspec
	10:00 - 10:20 Toshiba Teli Corporation Redefining High-Speed Vision with FPGA Processing and USB 10Gbps
	10:20 - 10:40 Teledyne Dalsa 32k for Wafer Scale Imaging
	10:40 - 11:00 Balluff GmbH Multi-Camera Systems Reimagined: Less Effort, More Possibilities
	11:00 - 11:20 Evopro Systems Engineering AG / Bosch Rexroth Open Vision Ecosystem with VIUx and ctrlX OS: Vision, PLC and AI
	11:20 - 11:40 DENKweit GmbH Training-free Re-Identification in Industrial Processes
	11:40 - 12:00 CDMVision AR and Deep Learning for Visual Quality Control
	12:00 - 12:20 Datavia BV Beyond Standard Vision: What Can Spectral Imaging Do for You Today?
	12:20 - 12:40 Headwall What Does Your Machine Need to Know?
	12:40 - 13:00 JAI How Multispectral Vision Transforms Food Inspection
	13:00 - 13:20 Exaktera LLC Hygienic Machine Vision: Three Essential Design Principles
	13:20 - 13:40 LUCID Vision Labs, Inc. From Farm to Fork(lift) - End-to-End Food Inspection and Automation
	13:40 - 14:00 Stemmer Imaging AG Secure Design for Long-Lived Machine Vision Systems
	14:00 - 14:20 wenglor sensoric elektronische Geräte GmbH High-Power Bar Light for Maximum Performance in Machine Vision Applications
	14:20 - 14:40 MST Vision GmbH Illumination Techniques for High Speed Photometric Stereo Using FPGA/GPU/CPU
	14:40 - 15:00 Vision & Control GmbH High-Contrast Edges Thanks to the Shadow-Casting Principle: Telecentr.Light
	15:00 - 15:20 evotron GmbH & Co. KG Digital Precise Timing: Synchronised Lighting for Faster Machine Vision
	EYE-TECH Srl Real Global Shutter with HDR at Pixel-Level for Next-Gen CMOS Sensors
	HylasVision / VTT LaunchPad HylasVision Is Bringing a New Standard for Material Sensing
	NovoViz From Visible to SWIR: SPAD Cameras for Industrial Machine Vision
	Phaseform GmbH Algorithm-Driven Optics: 63 Degrees of Freedom for AI-Controlled Imaging
	Ubicept Single-Photon Vision: From Raw Data to Industrial Perception
	16:10 - 16:15 VISION Start-Up of the Day Award Ceremony

Time	Wednesday, 7 October 2026
	Awentia Vision Technologies Deploying Zero-Shot Vision Models for Immediate Industrial Usage
	eyeo imaging World's First Filter-Free Color Splitting Image Sensor
	09:10 - 10:00 imavix engineering GigE Vision 3.0 in FPGA Hardware for High-Performance Vision Streaming
	siwave.io Smart AI Inference Compiler
	VISION Start-Up of the Day Award Ceremony
	10:00 - 10:20 Delta Optical Thin Film A/S Optical Filter Designs for Modern Machine Vision: From UV to SWIR
	10:20 - 10:40 Theia Technologies Rectilinear Optics Reduce Compute Burden in Edge Machine Learning
	10:40 - 11:00 Schneider-Kreuznach The Reliability Spectrum - Standard COTS to Mission-Specific Customization
	11:00 - 12:00 VISION Award 2026
	12:00 - 12:20 IMAGO Technologies Scalable Vision: From Embedded Systems to GPU Acceleration
	12:20- 12:40 Allied Vision Technologies Open Smart Cameras: Software Openness and Integration with Alecs
	12:40 - 13:00 Efinix Inc Beyond Neural Network Acceleration: FPGA Pipelines for Embedded Vision
	13:00 - 13:40 VDMA Machine Vision Panel Discussion
	13:40 - 14:00 Teledyne e2v 5D Vision: Bringing Synchronized 2D and 3D Imaging to Machine Vision
	14:00 - 14:20 SICK Vertriebs-GmbH / SICK IVP AB Pushing the Boundaries with the Next Generation 3D Camera
	14:20 - 14:40 AT Sensors Solving High-Speed 3D Inspection with the World's Fastest Laser Profilers
	14:40 - 15:00 Zebra Technologoies and Photoneo AI and 3D machine Vision for the World's Biggest Workforce – the Frontline
	15:00 - 15:20 Neurocle Why Application-Specific AI Still Matters in the Foundation Model Era
	15:20 - 15:40 MVTec Software GmbH From Hype to Hands-On: Practical Deep Learning for Industrial Vision
	15:40 - 16:00 PARKVI GmbH Optikos: One Platform for AI Based Industrial inspection with Vision-GPT
	16:00 - 16:20 Basler AG AI-Assisted Development and Configuration of Industrial Vision Systems
	16:20 - 16:40 Baumer Optronic GmbH High-Bandwidth Ethernet: A Game Changer in Cost for High-Performance Cameras
	16:40 - 17:00 Caeleste bv Recent Advances in High-Speed Imaging

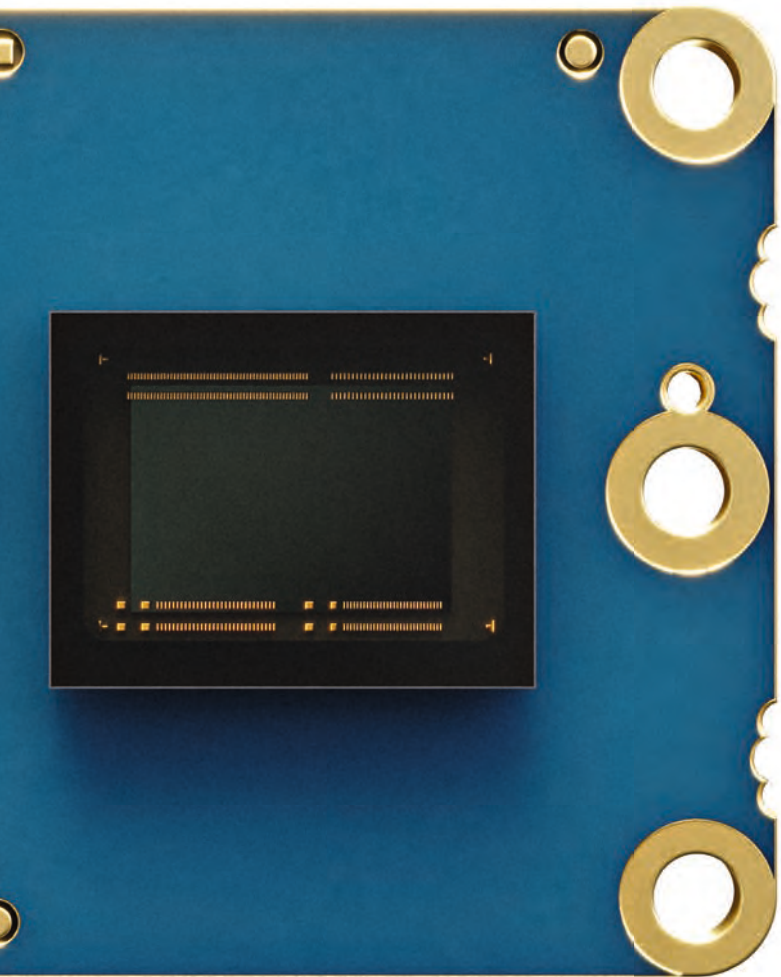
COLOUR KEY

- Opening / VISION Start-up Session / VISION Award 2024 - finalists / Panel Discussion
- Machine Vision Applications (Robot Vision, Logistics, Food, Packaging...)
- Lighting Systems and Illumination Technologies
- Imaging Standards
- Camera Technologies
- Machine Vision Software & AI
- Optics and Filters
- Beyond the Visible (SWIR, NIR, Hyperspectral, LWIR)
- Processor Technologies and Smart Cameras (Embedded Vision, IPC, GPU)
- 3D Imaging Technologies

Time	Thursday, 8 October 2026
09:10 - 09:55	Autolab-Next Automation GmbH DeepLained - Explainable and Validated AI for Industrial Vision
	Memorence AI Co., Ltd. Operator-Driven Instant Learning for High-Mix Manufacturing
	Raytron Microelectronics How Infrared Perception Is Shaping Industrial Machine Vision in Europe
	TiHive High-Speed Terahertz & AI Quality & Process Inspection Solutions
09:55 - 10:00	Syntcraft Synthetic Data for Next-Generation Computer Vision Systems
	VISION Start-Up of the Day Award Ceremony
10:00 - 10:20	Leistungselektronik JENA GmbH Beyond Standard: High-Performance OEM Lighting for Machine Vision
10:20 - 10:40	GEFASOFT Automatisierung und Software GmbH LED Current Control for Reproducible High-Speed Machine Vision
10:40 - 11:00	Exaktera LLC Light it. Scan it. Trust it. Lighting and Laser for Logistics Applications
11:00 - 11:20	Opto GmbH Unveil Defects and Anomalies of Surfaces for Quality Assurance with Solino
11:20 - 11:40	EVT - Eye Vision Technology AI-Powered 3D Robot Guidance for Sustainable Robotic Painting
11:40 - 12:00	BIODRONE SPEAR: Drones for Infrastructure Inspection and Complex Terrain Monitoring
12:00 - 12:20	A3, CMVU, EMVA , JIIA and VDMA Machine Vision Global Vision Standards Update
12:20 - 12:40	wenglör sensoric elektronische Geräte GmbH Standardized Integration of 2D Profile and 3D Sensor Data with GenICam

Time	Thursday, 8 October 2026
12:40 - 12:55	LUCID Vision Labs, Inc. Simplifying Multi-Camera GigE Systems with RDMA & Real-Time Synchronization
12:55 - 13:00	VISION Start-Up 2026 Award Ceremony
13:00 - 13:20	IDS Imaging Development Systems GmbH See, Understand, React. Camera-Based Process Monitoring
13:20 - 13:40	Allied Vision Konstanz GmbH 32k Line Scan Imaging for High-Throughput Semiconductor Inspection
13:40 - 14:00	Valens Semiconductor From 1 Gbps to 5 Gbps Over the Same Cable: A Migration Path from GigE Vision to USB3 Vision
14:00 - 14:20	HAIP Solutions GmbH Why Industrial Spectral Imaging Is Finally Taking Off
14:20 - 14:40	Exosens Beyond Visible: Unlocking Industrial Intelligence with UV, SWIR and LWIR
14:40 - 15:00	Specim Spectral Imaging Oy Ltd Stuck at 1%: the Sorting Gap Holding Back Textile Recycling
15:00 - 15:20	Optonic GmbH A Highly Accurate, Unit-Specific Camera Temperature Calibration
15:20 - 15:40	STMicroelectronics From Images to Depth: When Sensors Drive Robotic Intelligence
15:40 - 16:00	SinceVision Technology Laser Triangulation Solves New 3D Inspection Demands in AI Computing Era
16:00 - 16:20	VS Technology Optical Units: Maximizing Precision in Minimal Space
16:20 - 16:40	CBC (Europe) GmbH Integrated Filter-Switching Lens for Automated Multispectral Inspection
16:40 - 17:00	VICO Imaging Single-Shot 12-Inch Wafer Inspection: Solving Coaxial Uniformity for AI AOI

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Program Scientific VISION DAYS 2026

The Scientific Vision Days are the lecture series of the AIT Austrian Institute of Technology and its partners. Experts from science & applied research present cnew technologies in the field of machine vision – Hall 8 Booth C50

Tuesday, 6 October 2026			
10:00	Seeing the Unseen: Low-Light Imaging for Next-Gen Industrial Inspection Kevin Cheng, Shenzhen SinceVision Technology Co., Ltd.	13:00	Plan-Once, Place-Anywhere: A CAD-Centric Framework for Adaptive Robotic Inspection Vanessa Staderini, AIT Austrian Institute of Technology GmbH
10:20	RTI based Computational Imaging and AI for Surface Analysis Severine Cloix, Opto GmbH	13:20	How Can SWIR Imaging Improve Speed Without Sacrificing Accuracy? Fushuai Liu, Raytron Microelectronics Co., Ltd.
10:40	Programmable VCSEL Arrays for Adaptive Imaging and Quantum Sensing Nikolay Ledentsov, EPIGAP OSA Photonics GmbH	13:40	Multimodal Vision-Based Inspection of Inkjet-Printed Functional Structures Pablo Eugui, AIT Austrian Institute of Technology GmbH
11:00	Photonic Quantum Sensing and Imaging: From Fundamentals to Future Applications Valerio Flavio Gili, Fraunhofer IOF	14:00	EU Documentation Requirements – A Catalyst for Digitalization Ralf Robers, tekom Deutschland e.V.
11:20	Litavis: High-Speed Parallel Photon Counting and Time-Resolved Imaging Katjana Ehrlich, Singular Photonics	14:20	Xposure:1M:photometry – Inline Photometric Stereo Up to 1MHz Line-Rate Ernst Bodensterfer, AIT Austrian Institute of Technology GmbH
11:40	Systems-Level Optimizations of Embedded Vision through Optical-Computational Co-Design Mark Peterson, Theia Technologies	14:40	Digital Twins for Inspection: Rethinking How We Plan Machine Vision Setups Petra Gospodnetic, Medabsy GmbH
12:00	ViMo X: Industrial Vision Agent for Connected and Reusable Delivery Li Wanying, SmartMore Corporation Limited	15:00	Miniaturization and Customization of LED and LED Arrays Wolfgang Huber, Chips 4 Light GmbH
12:20	Break	15:20	Meeting QuantumBW – The LÄND of quantum Technology Alexander Heinrich, QuantumBW

Wednesday, 7 October 2026			
10:00	SlamLab: A Flexible, Tightly-Coupled Lidar-Inertial-GNSS Slam System for Survey-Grade Real-Time Mapping Clemens Hofbauer, AIT Austrian Institute of Technology GmbH	13:00	On-Device Deep Learning with CAD-Based AR Tracking Celaleddin Subasi, CDMVISION YAZILIM HIZMETLERI TICARET ANONIM ŞİRKETİ
10:20	Reliable Real-Time Vision: Detecting Unknowns in Production Gerhard Kruppl, KESTRELEYE GmbH	13:20	Bringing Real-Time AI Training into PC-Based Machine Vision Systems Hongsuk Lee, Neurocle
10:40	FPGA Implementation of GigE Vision 3.0 RoCEv2 Streaming for Machine Vision Jan Pech, imavix engineering	13:40	Liquid Lenses for 2D and 3D Vision Frederic Laune, Corning Varioptic
11:00	Efficient and Robust Training of Foundational Vision AI Models Using GenAI Sven Wanner, Artificial Pixels GmbH	14:00	Extending Inline Computational Imaging for 3D Inspection of Low-Texture Objects Ondrej Hlinka, AIT Austrian Institute of Technology GmbH
11:20	3D and Snapshot Hyperspectral Cameras Based on Continuously Variable Filter Oliver Pust, Delta Optical Thin Film A/S	14:20	Direct Comparison of Standard Area, Event-Based and Quanta Image Sensors: Theory and Use in Practical Application Bernd Jähne, University Heidelberg & EMVA
11:40	AI Meets 3D: Intelligent Weld Inspection for Resource-Saving Production Michael Beising, EVT – Eye Vision Technology	14:40	Unified Perception-to-Action for Robotics Nguyen (Eric) Huy-Hoang, AIT Austrian Institute of Technology GmbH
12:00	SiL Technology – Next Generation Optical Architectures for Imaging and Sensing Applications Giovanni Cennini, Anteryon BV	15:00	Depth of Field: Geometric vs. Diffraction Optics – Bridging the Gap Between Johannes Kühn, Schneider-Kreuznach Business Unit Industry
12:20	Break	15:20	Active Optical-Zoom Sensing and Multi-Actuator Control for Edge AI Vision Systems Kalyanaraman Rajesh, Oppila

Thursday, 8 October 2026			
10:00	From Visible to SWIR: SPAD Sensing Architectures for Industrial Machine Vision Utku Karaca, NovoViz	11:20	Photodex: High-Resolution Surface Inspection without Motion Constraints Georg Kaniak, AIT Austrian Institute of Technology GmbH
10:20	Quality Control in Nano Imprint Lithography Lukas Traxler, AIT Austrian Institute of Technology GmbH	11:40	From Seeing to Acting: Machine Vision in Biointelligent Production – Connecting Vision, Bioprocessing, Automation and AI Yannick Baumgartner, Fraunhofer IPA
10:40	Precision in Motion: High-Speed Microscopy for Miniaturized Component Inspection Caroline Girmen, Fraunhofer IPT	12:00	Ultra-Wide Rectilinear Imaging for High-Performance Vision Systems Mark Peterson, Theia Technologies
11:00	3D Shrinkage Estimation for Printed Ceramics Tamas Magyar, AIT Austrian Institute of Technology GmbH	12:20	Automation of Brake Dynamometer Testing through Image-Based Damage Detection Harald Unterrainer, WESTCAM Technologies GmbH

MACHINE VISION COMPONENTS

CXP Repeater Range



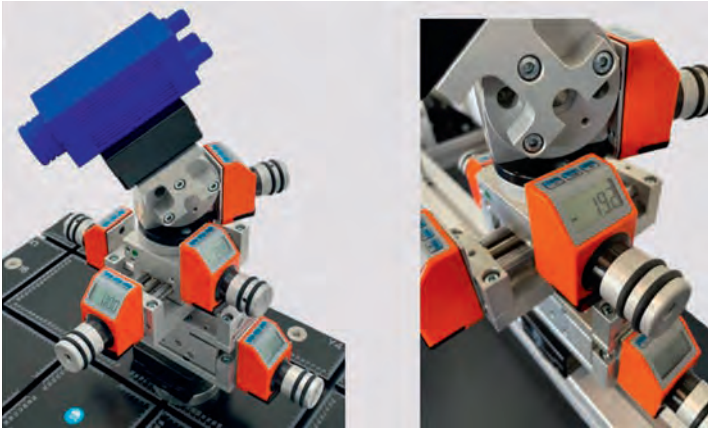
Cambridge Electronic Industries (CEI) introduces the Challenger CoaXPress Repeater range capable of working at CXP-12. The device supports all speeds up to CXP-12 and removes the problem with the potentially prohibitive short connection lengths of CXP-12 as well as providing signal improvement. The Xtensa Challenger is a small lightweight qualified device and is available in either a single, dual or quad connection formats. The Xtensa Neuron is the smallest CXP Repeater available at only 48x20x14mm. The repeaters require no external

power supply as it uses Power over CoaXPress (PoCXP).

Cambridge Electronic Industries Ltd
▼ Hall 10 | Booth A76

Precision Camera Positioning

For laboratory and testing applications, DK Fixiersysteme offers the MicroLine range, providing analog or digital precision positioning across up to five axes. The solution is based on standard components from the modular system, including linear adjustment units and rotary tables. This enables the precise adjustment of cameras and sensors, the reproducible preparation of measurement tasks, and the transfer of applications from the test setup to practical use.



DK Fixiersysteme GmbH
▼ Hall 10 | Booth C08

New Version Frame Grabber Acquisition Software



The new version of Allied Vision's acquisition software eGrabber 25.12 adds the 3-camera, line-scan firmware variant for PC3603 Coaxlink Quad CXP-12 and PC3603-4 Coaxlink Quad CXP-12 frame grabbers which allows to connect up to three line-scan cameras: one with one or two connections and the others with only one connection. Furthermore, the release adds the support for 1X_2YE TapGeometry to the 2-camera firmware variant of PC3603 Coaxlink Quad CXP-12, PC3603-4 Coaxlink Quad CXP-12 and PC3623 Coaxlink Quad CXP-12 Value frame grabbers. The 1X_2YE tap geometry is a configuration used in CoaXPress for area-scan cameras that feature two zones across the vertical direction.

Allied Vision Technologies GmbH
▼ Hall 10 | Booth F30

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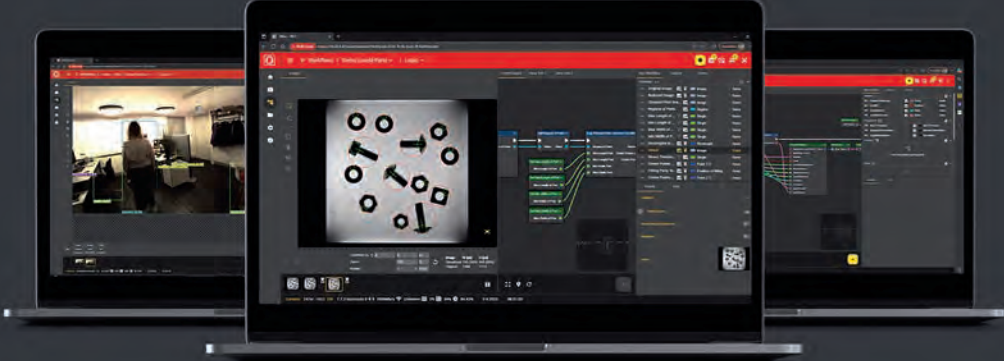
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MACHINE VISION COMPONENTS

Open Vision Platform

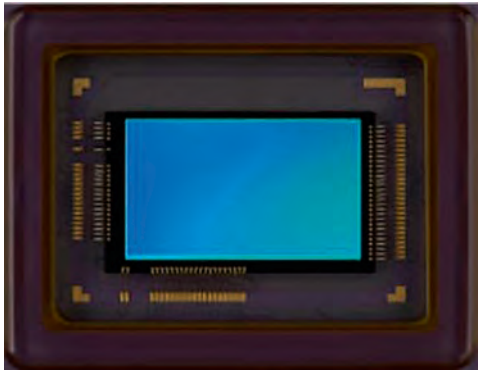


With evopro's platform-independent, open software platform Visionwebx, vision applications are developed once and deployed across any target system. This browser-based, no-code platform integrates image processing, AI, communication, and deployment. Thanks to GenI-

Cam support and open interfaces, maximum flexibility is maintained-completely free from vendor lock-in.

Evopro Systems Engineering AG
▼ Hall 10 | Booth G48

4K HDR Imaging for Edge Vision Systems



Samples of the Sony Electronics IMX908 are now available from Macnica Americas. Designed for compact machine vision systems, the IMX908 combines 4K HDR imaging in low-light conditions in a compact 1/2.8-inch format. With HDR modes, high frame rates, and Sony's Starvis 3 technology with Lofic, this sensor is designed to capture more detail even under challenging lighting and motion conditions.

Macnica ATD Europe GmbH
▼ Hall 8 | Booth D30

200GigE Vision Cameras



HYPERION 200GigE Area Scan Cameras: 1,000fps @ 21 MP

Emergent Vision is introducing the Hyperion area scan and Stratos line scan cameras, both featuring 200GigE. The first Hyperion model, the AH-21000-G, utilizes the Gpixel Gsprint4521 sensor and delivers 21MP images at up to 1,000 fps via a QSFP56 interface. The first Stratos model, the LST-16KG5, will use the Gpixel GLT5016BSI sensor to offer 16K resolution, 256-stage TDI, and line rates of up to 1MHz. Additionally, the Aeolus series of cameras makes its debut, fea-

STRATOS 200GigE Line Scan Cameras: 1 MHz @ 16K

turing in-camera H.265 compression that produces video files smaller than typical 1GigE output files. The Aeolus AA-12000-SB-H delivers 12.4 MP at 187 fps using the Sony IMX535 sensor, while the AA-25000-SB-H offers 25 MP at 105 fps using the IMX530 sensor.

Emergent Vision Technologies
▼ Hall 8 | Booth 8C36

Laser Modules for Machine Vision



One of the highlights from Laser Components at Vision is the Flexpoint MV laser modules. The Flexpoint MVgoldHP module features an output power of up to 2,000mW and a robust housing with integrated cooling. It is ideally suited for continuous operation in very bright ambient light and with short exposure times. With the MvpulseHP module – offering up to 1,000mW of output power – factory-optimized tuning of pulse length and duty cycle enables energy-efficient operation with high peak power, allowing for passive cooling. Both modules are manufactured in-house and offer a wide range of customization options, such as specific wavelengths or housing sizes.

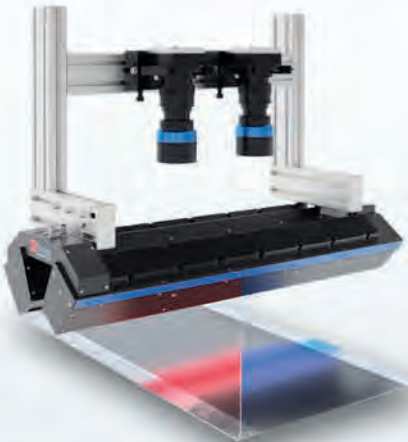
Laser Components Germany GmbH
▼ Hall 10 | Booth D15

Photometric Stereo made simple!

Photometric Stereo (PS) separates texture from topography by capturing images under different illumination directions. Our Photometric Stereo solutions bring this technology into high-speed industrial inspection, with optimized FPGA or GPU processing for fast results, advanced capabilities, and easy integration.

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- Multiple synchronized line scan cameras
- 4-channel PS Line Light
- FPGA processing up to 3.6 GB/s
- Integrated movement compensation
- Flexible scan widths with up to 1500 mm active light length
- Additional illumination setups

MSTVision
High end solutions for integrators

PS Advanced

Area scan for sequential inspection



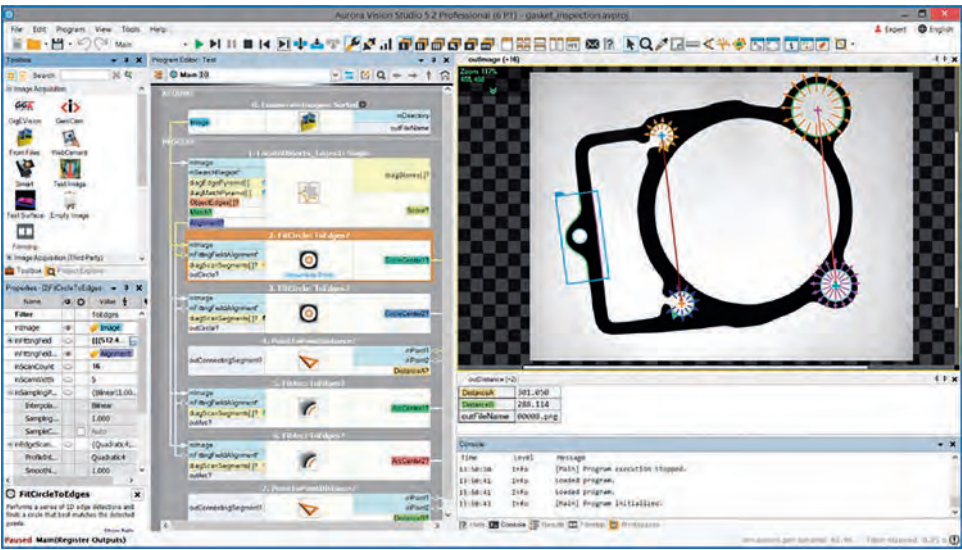
- High-speed area scan camera
- Segmented high-power illuminations
- GPU processing up to 600 MB/s
- Encoder-based movement compensation
- Flexible camera resolutions, working distances and optional multi-camera setups
- Up to 100 parts per second

MSTVision

www.mstvision.de | info@mstvision.de | +49 6134 9489100

MACHINE VISION COMPONENTS

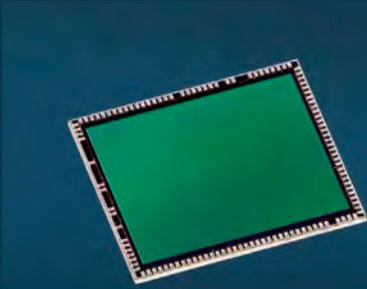
Graphical Development Environment



With the addition of AuroraVision Studio image processing software from Zebra, Rauscher is expanding its portfolio to include a graphical development environment. It enables the implementation of even demanding 2D/3D or deep learning applications without the need for traditional programming. Applications are created by selecting and connecting graphical filters. Images, intermediate results, and measurement data are available immediately, and changes are updated in real time. Numerous tools cover tasks such as measurement, contour/blob analysis, calibration, pattern recognition, code reading, OCR, and 3D point cloud processing. Rauscher provides the appropriate licenses as well as consulting services in Germany and Austria.

Rauscher GmbH
▼ Hall 8 | Booth C48

5MP Image Sensors with Dual Global and Rolling Shutter



STMicroelectronics announced new CMOS sensors with dual global and rolling shutter modes. By combining simultaneous pixel exposure (global shutter) and sequential exposure (rolling shutter), the sensors optimize image capture under a wide range of lighting and motion conditions. The global shutter mode eliminates motion artifacts for distortion-free images, while the rolling shutter improves dynamic range and light sensitivity, supported by integrated 18bit HDR.

The dual mode allows for flexible adaptation to specific applications. The sensors are available in monochrome and RGB-IR variants. The monochrome models (VD5943, VB5943) deliver raw grayscale images, while the RGB-IR models (VD1943, VB1943) feature integrated RGB-IR separation and intelligent upscaling. This optimizes the IR channel and delivers full 5MP IR images in addition to the 5MP RGB output.

STMicroelectronics International
▼ Hall 10 | Booth C41

Laser with Extended Wavelength Range

The ZM18-Vision is a precision laser module designed for demanding machine vision applications. Covering a significantly extended wavelength range from 405 to 830nm, it allows for optimal adaptation to a wide variety of materials and applications. Its robust IP67 industrial design, weight of 65g (fixed focus) or 85g (manual focus), fan angle of 20 to 60°, and output power of 40 to 170mW make it highly versatile.

Z-Laser GmbH
▼ Hall 10 | Booth C50



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VISIT US!
HALL 10
BOOTH 10C18



INDUSTRIAL CAMERAS FOR EVERY SPECTRUM



See the possibilities

inVISION News

inVISION – Europe's Leading Brand for Machine Vision

In addition to the official VISION trade fair newspaper, inVISION offers a wide range of relevant media channels – including newsletters, social media (LinkedIn), podcasts, videos, webinars, and print – to keep you informed about the latest trends in Machine Vision, AI & Embedded Vision, Spectral Imaging, 2D/3D Metrology, and Solutions. We briefly introduce these brands in this overview.



inVISION (Print)



If you would like more information on the new products featured at VISION, we recommend taking a look at the latest issues of inVISION. You can find them as e-magazines on the website.

Don't want to miss an issue of *inVISION*? Sign up now for the free e-magazine service to have every new issue sent to you by email at no cost as soon as it is released.



inVISION TechTalks

Since 2020, inVISION has conducted nearly 140 webinars. In the free inVISION TechTalks, three companies provide an overview of a specific focus area in 20-minute presentations each. You will find the current topics of our webinars at...



Online Conferences



In addition to the inVISION TechTalks, various online conferences on machine vision, robotics, and metrology are taking place – such as Robotics Day (October 14th). A highlight for all vision-focused attendees are the inVISION Days; this three-day (!) online-event offers an overview of Cameras & Optics (Dec. 1), Spectral Imaging (Dec. 2), and AI & Embedded Vision (Dec. 3).

New: Good Morning VISION

For the first time, inVISION asked as part of the video series 'Good Morning VISION' various exhibitors about their trade fair highlights in the run-up to VISION. The videos featuring responses from companies like Basler, Laser Components, Lucid Vision, Macnica Europe, Teledyne Vision Solutions, Theia Technologies, wenglor, Z-Laser



inVISION Podcast

The inVISION podcast '5 Questions...' already features over 30 episodes. Each episode lasts between ten and twenty minutes. Recent guests have included Allied Vision, Cubert, Pepperl+Fuchs, Photonfocus, and Stemmer Imaging. You can find the podcast on Spotify, deezer, Apple Podcasts, or at the inVISION homepage.



LinkedIn



The LinkedIn channel 'inVISION News' has over 23,000 followers from around the world. Every day, you will find the latest news, event dates, products, solutions, and expert articles there. Don't miss out and become a follower today.

Newsletter



The inVISION newsletter is the official industry newsletter for VISION, the world's leading trade fair. It provides a weekly, comprehensive overview of developments within the VISION industry.



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SinceVision

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HIGH-SPEED TRENDS

The Architecture Behind the Camera



Eric Petz
Head of Marketing
Emergent Vision
Technologies

High-speed vision is no longer just a race for faster interfaces. The real question is: What do you do with all that data? As 10, 25 and 100GigE move into broader use, success depends

RDMA/RoCEv2 make these systems practical at scale. Processing is moving directly to GPUs through RDMA and GPUDirect, while AI becomes a larger part of the pipeline. GPU parallelism helps sustain new camera data rates. New 100GigE area scan cameras can deliver 105MP at 112fps or 12.6MP at 811fps. Line scan now ranges from compact 4K 10GigE to 16K 25GigE at 120kHz and 100GigE reaching 8K at 1MHz or 16K at 500kHz. Those numbers matter only if the system can sustain them. In multi-camera applications, synchronisation, data movement, processing and storage must work together without dropped frames or bottlenecks.

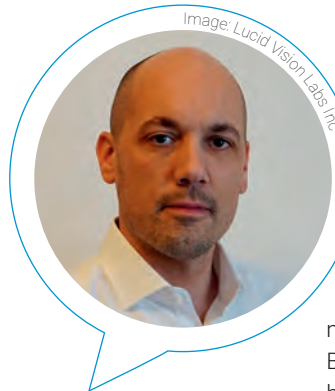
In multi-camera applications, synchronisation, data movement, processing and storage must work together without dropped frames or bottlenecks.

on the architecture behind the camera: reliable multi-camera acquisition, lossless transfer, processing and storage. Optimised GVSP and GigE Vision 3.0 with

gether without dropped frames or bottlenecks. That maturity turns camera specifications into usable application performance.

▼ Hall 8 | Booth C36

Greater Architectural Freedom



Alexis Teissie
Director of
Product Management
Lucid Vision

High-speed machine vision is no longer limited by camera bandwidth. As multi-camera systems scale to hundreds of gigabits

now be easily implemented using off-the-shelf Ethernet hardware with GigE Vision 3.0 and RDMA. Lucid's 10 and 25GigE cameras address this shift by enabling low-latency, CPU-efficient data transfer and scalable multi-camera architectures. Because GigE Vision 3.0 is built on Ethernet, system designers gain greater architectural freedom. Systems can use direct connections, switched networks, or distributed topologies; scale incrementally as camera counts and bandwidth requirements grow; and take advantage of the broader Ethernet ecosystem of switches, cabling, optics, ti-

GigE Vision 3.0 makes high-performance vision easier to deploy, expand, and adapt.

per second, the real challenge is moving image data efficiently and reliably through the network and into host or GPU memory with minimal system overhead. Imaging systems that once required complex, custom hardware and software can

ming, diagnostics, and network-management tools. This makes high-performance vision easier to deploy, expand, and adapt – without locking the system into dedicated point-to-point infrastructure.

▼ Hall 10 | Booth E40

High-Speed Entering a New Phase



Henning Tiarks
CPO
Allied Vision

High-speed interfaces are entering a new phase. With today's leading sensors such as Sony's latest Pregius S generation cameras can now generate data rates up to 100Gbit/s. Success depends on whether the overall system architecture can in-

ductive. 100GigE builds on the familiar Ethernet ecosystem and scales especially well in large, distributed multi-camera installations. With GigE Vision 3.0 and RDMA (RoCEv2), image streams can reach host memory with dramatically lower CPU involvement turning bandwidth into real throughput. In parallel, CoaX-Press-over-Fiber (CXPoF) remains the choice for time-critical inspection, offering deterministic triggering, deep buffering, and FPGA-based 'in-flight' processing via frame grabbers. At Allied Vision, we're enabling both approaches with a coherent 100Gbit/s ecosystem: cameras, transceivers, cables, NICs, and upcoming CXPoF solutions. Our customers can focus on applica-

We see two proven paths to make 100bit/s productive.

gest, move, and process that data reliably without jitter, CPU overload, or dropped frames. We see two proven paths to make 100bit/s pro-

tion value: higher units per hour and finer defect detection, especially in semiconductor AOI.

▼ Hall 10 | Booth F30

LINE SCAN CAMERAS AND SCANNER SYSTEMS

Monochrome or color from 512 to 8192 pixels

Corrosion Inspector

A color scanner system for the objective evaluation of filiform and other corrosion phenomena



Lasers for Machine Vision



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06 – 08 October 2026
Hall 10, Booth 10.C.19
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CAMERAS

High-Speed Line Scan Camera with USB 3.1 Gen 2 Interface

Necta X is Alkeria's next-generation line scan CMOS camera featuring a 10 Gbps USB 3.1 Gen 2 USB-C interface. Equipped with ams Osram Dragster sensors, it is available in a compact version (4K/8K, F-mount) and a large version (8K/16K, M72 mount), including versatile I/Os and encoder support.



Alkeria S.r.l.
Hall 8 | Booth 8C43

Higher Resolution & Crossed Polarizing Filters

Beckhoff's Vision Unit Illuminated with Liquid Lens Technology has been expanded to include 16 new models with new image sensors, now offering higher resolutions of 5.1, 8.1, and 12.4MP. An option with crossed polarizing filters is now available as well, a solution for suppressing distracting reflections on smooth or glossy surfaces. The linearly polarized light from the illumination is reflected largely unchanged and blocked by the orthogonally aligned filter on the image sensor. Surface glare is eliminated, and contrast and recognition accuracy are significantly improved.



Beckhoff Automation GmbH & CO. KG
Hall 10 | Booth 10F10

100GigE Camera Series



Allied Vision introduces the FXO 100GigE cameras fxo925x100GE and fxo926x100GE, both based on Sony IMX925 / IMX926 sensors. Key highlights are a 100GigE interface with RDMA support which offers 12.4MP at 662fps / 24.5MP at 442fps, which is approximately 4x higher frame rate compared to previous 24MP models. A fiber cable data transmission enables flexible cable lengths ranging from meters up to kilometers. The cameras have C-mount, flat-front & RF options for flexible integration.

Allied Vision Technologies GmbH
Hall 10 | Booth 10F30

Software Control of Zoom, Iris, and Focus for RF Lenses



Emergent Vision Technologies Inc.
Hall 8 | Booth 8C36

Emergent Vision announced new support for software-based control of zoom, iris, and focus when using Canon RF lens ecosystem with its camera lineup. With this release, zoom control is now supported on compatible RF lenses, expanding beyond existing iris and focus capabilities. This allows users to dynamically adjust focal length in real time. A firmware update is required for both the camera and the RF lens adapter, with adapter firmware version 4.0.1 or higher necessary to enable full functionality.



SWIR High-Speed Hyperspectral Camera

Teledyne Vision Solutions' SWIR hyperspectral camera Kaleido targets critical applications in recycling, food safety, pharmaceuticals, and waste management. Fully designed and vertically manufactured by Teledyne and encompassing the sensor, spectrograph, and interface, the camera delivers up to 1,280 pixel spatial resolution with line rates exceeding 2.3kHz. It simplifies the user experience with built-in spectral band selection and spectrograph-based aberration correction, ensuring consistent calibration across units throughout the full operating temperature range. The camera utilizes a 10GigE interface and is optimized for high responsivity and strong signal integrity even in low-light conditions.

Teledyne Vision Solutions
Hall 8 | Booth 8B10

Ad



VS TECHNOLOGY

MACHINE VISION OPTICS

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AT VISION 2026!

Precision optics, illumination and optical filters
— see them running in **live demonstrations** at our booth.

PRECISION OPTICS

OPTICAL FILTERS

ADVANCED ILLUMINATION

CUSTOM SOLUTIONS



Booth #10F70

HAPPY HOUR | OCT 7 | 17:00-18:00

CAMERAS

CL-GigE External Grabber



The iPort CL-GigE converts Camera Link cameras into GigE Vision-compliant devices and enables the transmission of image data over standard Ethernet networks. Pleora's solution is designed to extend the service life of existing cameras, simplify system integration, and offers long cable lengths, flexible network topologies, multicasting, and cross-vendor interoperability. This makes it ideal for modernizing existing machine vision systems.

Pleora Technologies Inc.
▼ Hall 8 | Booth 8B02

High-Speed up to 1.1 Million fps and 150ns

SinceVision's SH8 high-speed cameras feature a BSI image sensor (20µm pixel size) with a spectral response range of 250 to 1,050nm and a peak quantum efficiency exceeding 90 percent. In binning mode, 640x512 pixel images can be captured at 120,000fps. Otherwise, the cameras support 30,000fps at full resolution (1,280x1,024), a maximum frame rate of 1,100,000fps, and a minimum exposure time of 150ns.



Shenzhen SinceVision Technology Co., Ltd.
▼ Hall 8 | Booth 8A30

SPAD-Based Image Sensor



SPAD Camera with 100,000fps

Novoviz introduces the visible-light SPAD camera NV15-VFR. Built in a 45mm machine vision format for C/CS-mount optics and USB 3.0 connectivity, it combines binary photon detection with continuous sparse event readout, enabling acquisition rates exceeding 100,000fps. The SPAD sensing architecture allows for pixel binning and event-threshold adjustments with single-photon steps. It also delivers excellent low-light sensitivity and strong high-dynamic range performance.

NovoViz SA
▼ Hall 10 | Booth 10H35

Litavis is an image sensor based on a SPAD from Singular Photonics. It features a software-configurable architecture that combines highly sensitive photon counting, programmable time gating, and photon timing control on a scalable SPAD platform. By integrating embedded digital photon processing directly onto the sensor, it enables simultaneous photon counting and time-resolved detection for applications such as image processing and LiDAR. The sensor's functionality can be reconfigured via software.

Singular Photonics
▼ Hall 8 | Booth 8D47



Global Shutter AFZ Cameras

Active Silicon's new Harrier 10x and 30x AF-Zoom Global Shutter Cameras feature Sony Pregius S sensors, autofocus zoom, and Full HD video. The compact cameras deliver distortion-

free imaging of fast-moving targets via LVDS, USB, HDMI, and Ethernet IP.

Active Silicon Ltd.
▼ Hall 10 | Booth 10F59

GMSL 3D USB10G Event-based Streaming HDR AI Active Focus iTof



Trends. Innovations. Future.
Image processing and industrial cameras.
See you in Stuttgart from October 6–8
at Booth 8C60!



OPTICS & ILLUMIATIONS

Camera with a Rotating Protective Window

The Kowa Rotary Wiper is an integrated camera solution that ensures a clear view even under challenging outdoor and industrial conditions. The rotating protective window removes water, dirt and other contaminants from the viewing surface, ensuring reliable image capture. The solution is suitable for applications in the fields of CNC machines, infrastructure monitoring, and industrial image processing.

Kowa Optimed Deutschland GmbH
Hall 10 | Booth C66



Closed-Up Lenses



Midwest Optical close-up lenses are a cost-effective way to decrease working distance and increase magnification – without replacing your primary lens. Designed to thread directly onto the front of your existing lens, it allows you to get closer than with a lens alone. The lenses are available from stock, mounted in threaded, black anodized aluminum rings, sizes M25.5-M62. Each set consists of +1, +2 and +4 close-up lenses that can be threaded together for increased power.

Midwest Optical Systems
Hall 10 | Booth F52

In-Cable Lighting Controllers

Thanks to LumiSens technology, Evotron's digital in-cable LED lighting controllers (DCC2404-1WS and DCS2402-1S) deliver defined light and digital process data, and can be integrated into automation networks. These digitally controlled in-cable constant-current sources can be mounted directly at the light source, in a cable duct, or in a control cabinet. To ensure maximum light output with constant light energy – even at pulse durations as short as 1µs – the controllers can be positioned in close proximity to the lighting. Parameterisation can be performed directly on the device, via API, or using the 'DCConfig' app.

Evotron GmbH & Co. KG
Hall 10 | Booth H26

Remote Focus Operation

Computar Optics launched the LensConnect Telecentric Lens Series. The TEC-ML series offers remote focus control and dual-interface connectivity. Seamless I2C integration enables remote focus adjustment directly from compatible cameras. Flexible I2C/USB interface options accommodate diverse system configurations and integration requirements. The focus-driven series is available in four magnification options – 0.25, 0.5, 1.0, and 2.0x. All models maintain a consistent F-number of 6.5.

CBC Europe GmbH
Hall 10 | Booth H14



Extremely Ruggedized Lenses



The extremely ruggedized Fujinon HF-XA-1F series has five fixed focal lengths from 8 to 35mm, is designed for a sensor size of 2/3 to 1/1.2" and delivers a resolving power of 3.45µm

(5MP). The lenses are optically based on the existing HF-XA-5M series, i.e. angle of view, distortion, MOD etc. are identical. However, the lenses have been mechanically improved and are now equipped with Fujifilm's Anti Shock & Vibration Technology. The housing has become slightly larger with a diameter of 34mm. In addition, the new HF-1F series offers a fixed iris (with three interchangeable iris rings).

Fujifilm Germany GmbH
Hall 10 | Booth F50



Turn 1,080p into 4k

Optotune has launched the XPR-18, an extended pixel resolution (XPR) 4-position actuator, which offers a compact and cost-efficient way to increase image resolution by a factor of 4x. With a clear aperture of 18x14mm, it is designed for use with Texas Instrument 0.39" DMDs at 50 and 60Hz to increase resolution from native 1,080p to 4K on the screen. By accurately and rapidly tilting a glass window, it laterally shifts light with high precision, enabling higher on-screen resolution.

Optotune Siwtzerland AG
Hall 10 | Booth G25

Highly Dynamic Four-Channel Lighting Controller

Gefasoft presents the 4C-20A-V LED lighting controller. Four fully independent, current-controlled channels enable precise and flexible control of multiple lights. Power is supplied via a standard 24V DC supply. At the heart of the controller is a newly developed current control system with further improved dynamics and stability. This enables extremely fast and reproducible switching operations as well as high trigger frequencies of up to 50kHz. The turn-on delay until the preset current is reached is only 3µs.

Gefasoft
Automatisierungs und
Software GmbH
Hall 10 | Booth F02



LUMIMAX[®]
by Exaktera

SERIEN
LBHP
LRHP
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LQHP

HIGH-POWER MACHINE VISION LIGHTS
ENGINEERED FOR MODERN LOGISTICS.
Because Every Second Counts.

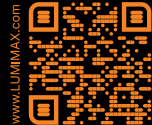
up to 5 M lux
in strobe mode

Plug & Play
Integrated controller

Max. scan rate
at maximum speed

24/7
working day & night

VISION
Meet us and
the entire
Exaktera Group!
Hall 10
Booth 10C50



OPTICS

More than Shielding a Camera



Mike Giznik,
President,
Midwest Optical Systems

tonomous systems and advanced sensing.

Protective windows are also doing more than simply shielding a camera or sensor. Advanced anti-reflection coatings help maximize transmission and reduce reflections, while oleophobic and hydrophobic coatings resist fingerprints, oils, moisture and other contaminants that can affect image quality.

Infrared imaging is another area driving innovation, particularly in defense, security and thermal imaging. MidOpt SiLWIR Silicon Protective Windows reflect this trend, offering more than twice the mechanical strength of germanium for demanding

Our Silicon Protective Windows offering more than twice the mechanical strength of germanium for demanding LWIR applications.

chine vision, filters are becoming more application-specific, helping cameras isolate critical wavelengths, improve contrast, control glare and achieve more consistent results across industrial inspection, robotics, au-

LWIR applications. With advanced coatings and a durable silicon design, SiLWIR provides an alternative for EO/IR systems, UAVs, surveillance, industrial thermal inspection and autonomous platforms.

▼ Hall 10 | Booth F52

Overall Optical System Makes the Difference



Dr. Jürgen Geffe,
Managing Director,
Vision & Control GmbH

ween optics, illumination, camera and image processing. One important trend is therefore towards custom-designed optics developed specifically for demanding inspection tasks. At the same time, telecentric systems continue to gain importance wherever precise and repeatable measurement and inspection are required.

At VISION 2026, we will demonstrate how these developments can be combined with advanced technologies such as Deep Learning and High-Speed Vision. We will also present our new

One important trend is custom-designed optics developed specifically for demanding inspection tasks.

solutions, smaller structures and, at the same time, ever faster inspection processes call for optical systems that are precisely matched to the specific application. Today, we no longer consider the lens in isolation. What really matters is the optimum interaction bet-

series of telecentric illuminators – accurate, precise, robust and designed for industrial use. Because even the most powerful image processing system depends on one essential prerequisite: the best possible image as the basis for reliable analysis.

▼ Hall 10 | Booth B87

Wafer Inspection from the Backside



Gerhard Holst,
PhD,
Excelitas
Deutschland GmbH

ultra-high-resolution Linos d.fine HR-M lens ensures optimal illumination and fine-detail imaging across a large FoV. A multispectral QR-code reader performs TDI line scanning for reliable identification at high production speeds and in low-light conditions. The apochromatic Linos inspec.x L 5.6/105 VIS-NIR lens supports ultra-sharp, high-contrast imaging across a broad wavelength spectrum from 400 to 1150nm, eliminating the need for refocusing. The semiconductor wafer inspection setup shows that quality control of silicon semiconductors is possible even from the backside with SWIR radiation. The Linos Rodagon

At Vision Excelitas presents a live demo at its booth. In a high-speed, high-resolution object-recognition setup, the machine vision components pair up with AI software for

The apochromatic Linos lens supports ultra-sharp, high-contrast imaging across a broad wavelength spectrum.

demanding inspection and sorting tasks. The camera captures precise images at a recording speed of over 2,000fps. The large-aperture,

2.0/25 SWIR lens offers exceptionally high transmission from the 840 to 1900nm wavelength range.

▼ Hall 10 | Booth E51

FUJIFILM
Value from Innovation



WHEN IT COMES TO QUALITY, IT'S BEST THINGS AREN'T DONE BY HALVES.

Our high-performance optics are the result of precision lens manufacturing with outstanding coatings, developed using an advanced arrangement of optical elements and robust mechanical design. For uncompromising quality in all areas of application. More details at www.fujifilm.com. **Fujinon.** To see more is to know more.

FUJINON

AI & EMBEDDED VISION

GMSL2 Cameras up to 23MP

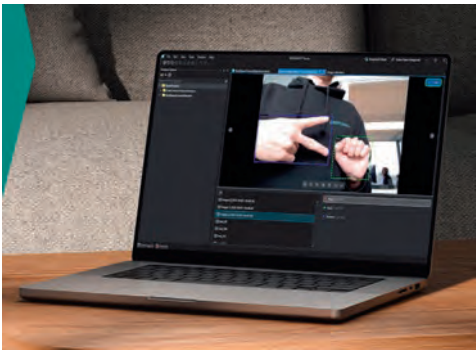
DAB-Embedded offers GMSL2 cameras for a wide range of applications, including automotive, robotics, medical technology, industrial automation, and more. The cameras are available with rolling-shutter or global-shutter image sensors and support resolutions ranging from 720px up to 23MP. Additional features include hardware synchronization over GMSL2, an integrated 6-axis IMU, a temperature sensor, calibration EEPROM, and various lens options.



DAB-Embedded
▼ Hall 10 | Booth G14



AI-Suite for Edge-AI Vision Models



Deepcraft Studio, Infineon Technologies's / Imagimob's end-to-end development platform for building Edge AI models, now supports the entire process of building computer vision (CV) models optimized for edge devices. The AI suite reduces the amount of time spent on data labelling and automatically applies a large host of data augmentations during training. The code generated is optimized for Infineon's PSoC Edge MCUs and designed to be seamlessly integrated. Due to the built-in Ultralytics' Yolo model training pipeline, there is no need to be a domain expert in order to build vision-based Edge AI models

Imagimob AB
▼ Hall 8 | Booth B13

AI Vision Sensor for OCR

The NS42 AI Vision Sensor from Zebra Technologies comes standard with AI-powered OCR (AI-OCR) and anomaly detection, enabling high-precision OCR reading without the need for training, as well as anomaly detection and assembly inspection. Variants with 2.3 and 5.1MP resolutions and frame rates of up to 60fps are available. The vision

sensor features integrated lighting, multiple connectivity options, an autofocus lens, and a software interface, allowing for setup and deployment in just a few minutes.

Zebra Technologies Europe Ltd.
▼ Hall 8 | Booth B40

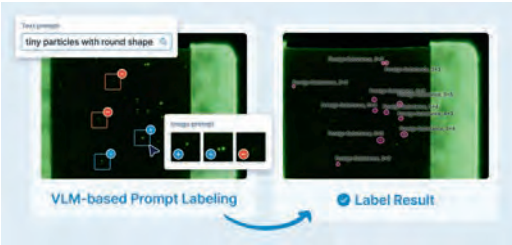
Operator-Driven Instant Learning

Memorence's Operagents is a Reliable AI Layer for Workstations designed to upgrade existing manual operations without rebuilding the production line. It combines work guidance, real-time visual checking, on-site learning, traceability and workstation management for assembly, inspection, testing, packaging and other SOP-based operations. A key capability is operator-driven instant learning. Frontline operators can teach new visual conditions and correct AI directly at the workstation using only a small number of examples. New conditions can typically be learned within minutes.

Memorence AI
▼ Hall 8 | Booth E60.13



Auto Deep Learning Vision Software



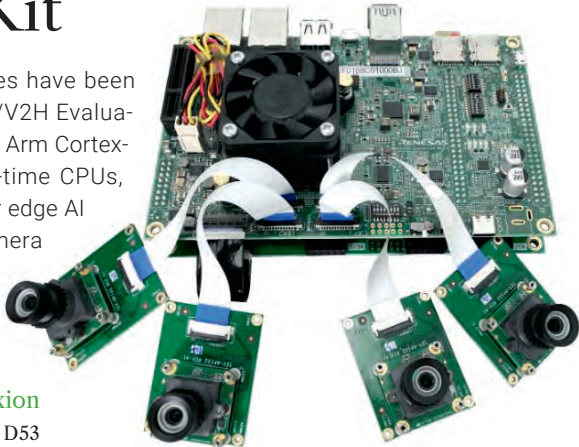
Neurocle is showcasing versions 5.0 of Neuro-T and Neuro-R, the highlight of which is a VLM-based 'Prompt Labeler.' This tool enables operators to locate and label defects on industrial target objects that are difficult to define using simple image and text instructions. This reduces the time required to create datasets from 2 hours and 25 minutes to 17 minutes. In addition to the dimensions of objects, the new model also recognizes their exact rotation angles and orientations. Through the expanded use of edge AI, Neuro-R achieves low-latency inference on various hardware platforms, recording 1.1ms on GPUs and 2.4ms on standard CPUs and NPUs.

Neurocle
▼ Hall 8 | Booth B11

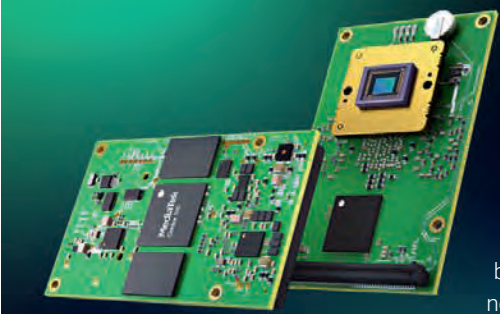
MIPI Cameras for RZ/V2H Evaluation Kit

TechNexion's MIPI CSI-2 camera modules have been tested and validated on the Renesas RZ/V2H Evaluation Kit. The kit is built around a quad-core Arm Cortex-A55 processor and dual Cortex-R8 real-time CPUs, with an integrated DRP-AI3 accelerator for edge AI performance. The Tevs MIPI CSI-2 camera modules can be seamlessly connected to the Renesas RZ/V2H EVK using a RPI22 adapter board.

TechNexion
▼ Hall 10 | Booth D53



All-in-One Camera with Onboard Edge AI Processor



Vision Components' EvoCam is a tiny 65x40mm intelligent board-level camera that integrates a MediaTek Genio 510 Edge AI processor along with all components for image acquisition and image processing. It can be configured with an onboard image sensor or with one or two cable-connected remote-head image sensors from the VC MIPI portfolio, and indi-

dually adapted to the respective application via interface boards. The NPU of the MediaTek processor delivers a performance of 3.2 TOPS; the camera ships with a customized Debian Linux operating system that natively supports common image processing functions.

Vision Components GmbH
▼ Hall 8 | Booth C31

Ruggedized IP67 Edge AI Platform with 2,070 FP4 TFLOPS

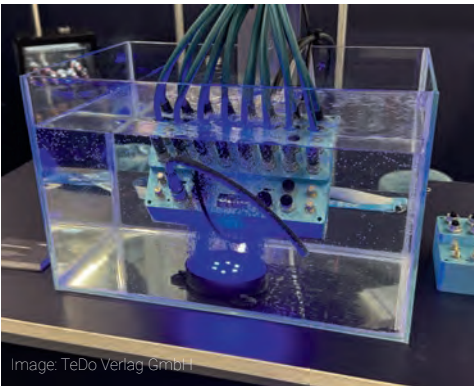


Image: TeDo Verlag GmbH

PCB Arts showcases its high-end Thorium platform. Based on the Nvidia Jetson AGX Thor, it was developed for edge AI applications where traditional embedded solutions are insufficient, meaning servers or cloud solutions are not viable options. Featuring 2,070 FP4 TFLOPS with 64 or 128GB RAM, 16x Gigabit Ethernet (M12 X-coded) with PoE or GMSL2, and a 10GbE port, the IP67 platform also offers drivers from PCB Arts' camera partners.

PCB Arts GmbH
▼ Hall 10 | Booth E70.1

Simply Create AI Models

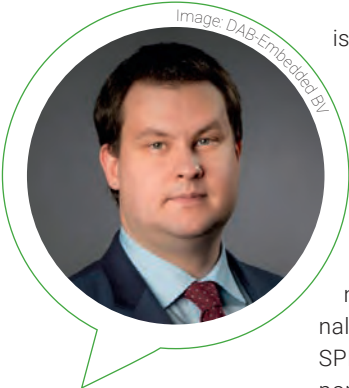
The Wenglor AI Lab, with its AI Loop, combines AI expertise with programming skills through a single workflow: capture images, annotate them, train the AI, and deploy models directly on machine vision cameras. This enables companies to implement AI applications—such as automated quality inspections – more quickly and with less investment.



Wenglor Sensoric GmbH
▼ Hall 8 | Booth C61

GMSL GOES VISION?

Either Range or Data Volume



Artsiom Staliarou,
CEO,
DAB Embedded

The GMSL interface allows video data to be transmitted over distances of up to 15m with microsecond-level latency. However, there

is related to the number of frames that can be fed into the processor. Here you have to choose, either range or data volume. As for the GMSL solution itself, it includes not only video transmission but also bidirectional interfaces such as I2C, SPI, UART, and, I/Os. It's important to note that GMSL has a competitor with MIPI A-PHY. It's expected that this interface will be integrated directly into the sensor itself, which will simplify the component count and reduce the camera's size. Overall, it would be great to see solutions from Nvidia, Qualcomm, and NXP where the GMSL deserializer is already

”

It would be great to see solutions from Nvidia, Qualcomm, and NXP where the GMSL deserializer is already integrated into the chip itself.

are reasonable limitations as the number of pixels per second. This value is limited by the GMSL bandwidth of the pixel pipeline. Ultimately, this

integrated into the chip itself, eliminating the need to convert GMSL to MIPI to feed data to the processor.

▼ Hall 10 | Booth G14

A Worthwhile Addition



Dr. Melanie Gräsel,
Product Manager,
Basler AG

With the increasing use of AI, image processing is shifting from desktop PCs

insufficient. GMSL builds upon the MIPI CSI-2 protocol and extends the range to up to 15meters. While the integration effort is higher – just as with MIPI CSI-2 – due to the lack of a unified standard, it is quite manageable, especially when camera manufacturers provide suitable drivers and high production volumes are planned. As always, the application determines the choice: established interfaces like USB and Ethernet score points with vision standards, easy integration, vendor independence, and flexible system scaling

”

GMSL represents a sensible addition to the range of interfaces available for embedded applications.

to specialized SoCs and SoMs. These typically rely on the MIPI CSI-2 interface, which, however, hits its limits with a maximum cable length of 50cm between the camera and the host system. For robots or autonomous vehicles, this may be

via switches and hubs. On the other hand, they occupy ports that could be used for other peripherals. GMSL therefore represents a sensible addition to the range of interfaces available for embedded applications.

▼ Hall 8 | Booth D50

Ideal for Embedded Vision



Dipl.-Ing. (FH) Martin Klahr,
Division Manager
Digital Imaging,
Phytec Messtechnik GmbH

For embedded vision applications, MIPI CSI-2 is the ideal interface. GMSL2 and FPD-Link III complement it by enabling longer dis-

allows for highly compact integration, and requires no additional component or CPU overhead. However, data transmission over FPC cables is limited—and this is where GMSL2 comes into play: Like the functionally equivalent FPD-Link III, this technology from the automotive industry provides a transparent transmission channel over coaxial cables for distances of up to 15m.

In practice, this means that MIPI is the first choice for most embedded applications. GMSL2 – or FPD-Link III, which is used by Phytec – is employed when longer cable lengths are required.

”

GMSL2 – or FPD-Link III, as used by Phytec – is employed when longer cables are required.

tances between the camera and the processor board.

MIPI CSI-2 is supported by most image sensors and embedded processors, al-

Even then, beyond the serializer and deserializer, MIPI CSI-2 remains the interface between the image sensor and the embedded board.

▼ Hall 8 | Booth C16



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IPC 4 VISION

Liquid-Cooled Rugged Edge AI Computer

Sintronex' Abox-5221 series is a high-performance, rugged edge AI computer designed for demanding machine vision and autonomous applications. Powered by the patented ThermoSiphon liquid cooling technology, the system operates entirely without fans or pumps, ensuring reliable cooling – even within sealed, IP-rated enclosures – across a temperature range of -40 to +70°C. Equipped with 14th Gen Intel Core processors and Nvidia RTX Ada GPUs, the platform delivers superior computing power up to 682 AI Tops for AI inference, real-time sensor fusion, and machine vision.



Sintronex Technology Corp.
▼ Hall 8 | Booth 8D14

AI Acceleration up to 36 TOPS

Vecow's ECX-4000 is a high-performance fanless AI computing system for modern edge AI applications. Powered by the Intel Core Ultra 200S Series processor (Arrow Lake) and Intel W880 PCH, the system leverages Intel's advanced hybrid architecture, which combines P-cores and E-cores for up to 24 cores, an integrated NPU for AI acceleration and Intel X LPG Graphics. A high throughput AI acceleration is possible, delivering up to 36 TOPS. It offers an array of I/O interfaces, including 4x COM ports, 6x USB 3.2 Gen2 ports, 2x external SIM card sockets, and versatile Ethernet options.



Vecow Co., Ltd.
▼ Hall 8 | Booth 8C15

Full AI Compatibility



Advantech's AFE-R761 is powered by the RK3588 processor and an integrated 6 TOPS INT8 NPU. It supports flexible expansion with AI accelerator cards, such as the Hailo-8 AI accelerator, delivering up to 26 TOPS and up to 25 TOPS INT8 AI acceleration, enabling efficient operation of YOLO-series object detection models. It also supports the deployment of lightweight

and quantised LLMs, such as DeepSeek 1.5/7B variants. The system is equipped with three M.2 slots to enable flexible configuration options.

Advantech Europe BV
▼ Hall 8 | Booth 8D12

Platform with Multi-Gen Intel Core Processing

Aaeon's fanless embedded controller Boxer-6839-RPL is built to accommodate a range of 12th, 13th, and 14th Generation Intel Core LGA 1700 socket-type CPUs. The system's I/O caters to a wide variety of industrial automation needs, with six DB-9 ports for RS-232/422/485, eight USB 3.2 Gen 2 Type-A ports, and four LAN ports. The PC has two possible configurations where expansion is concerned, with its A1 SKU featuring two PCIe slots (one x4, one x1) and its A2 SKU having one PCIe x4 with one PCI slot.



Aaeon Technology Inc.
▼ Hall 8 | Booth 8C19

Mini-ITX Board

The Spectra IMB-1247 Mini-ITX board is based on Intel Core Ultra processors and equipped with DDR5 memory. A highlight is



the integrated Thunderbolt 4 interface, which, in addition to standard video and data interfaces, enables further possibilities for high-speed data transfer and easy connection of external devices. Furthermore, the board offers a selection of industrial interfaces, including dual LAN, multiple USB ports, serial interfaces, and M.2 expansion slots.

Spectra GmbH & Co. KG
▼ Hall 8 | Booth 8B23

Edge AI for Real Time Control

Nodka's NP-6135U-H1B Automation Computer combines edge AI processing with industrial machine vision and real-time machine control.



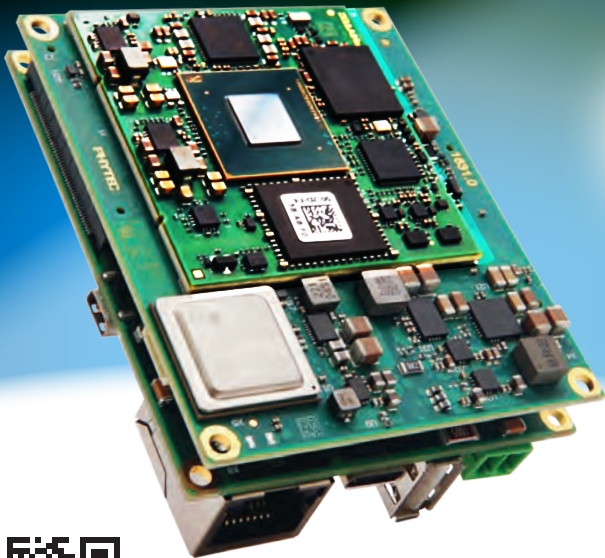
Based on Intel Core Ultra processors, it integrates CPU, GPU, and NPU resources and delivers up to 99 TOPS of AI performance for demanding vision workloads.

Nodka Automation Technology
▼ Hall 8 | Booth 8D15

VISION INTEGRATION PLATFORM

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to Your Embedded
Vision Product



LIVE
EDGE AI
DEMO

Hall 8 · Booth C16

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AI VISION

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Michael Busch,
Product Manager
Twincat Vision,
Beckhoff Automation

The current debate surrounding AI – focusing on tools, models, frameworks, and the question of the right approach – offers limited practical help to users. After all, AI projects rarely fail because of the algorithm

rectly into their specific applications. It integrates vision hardware – inclusive cameras, lenses, and lighting – with a highly scalable IPC portfolio (such as the ultra-compact C6043 industrial PC featuring an integrated Nvidia embedded GPU) and PLC-integrated AI execution modules. Vision, PLC, motion control, and measurement technology all run synchronously on the same cycle, eliminating the need for additional hardware, complex interface integration, or separate maintenance and IT security strategies for extra systems. Users can get started without a dedicated data science team: the web-based Twincat Machine Learning Creator guides

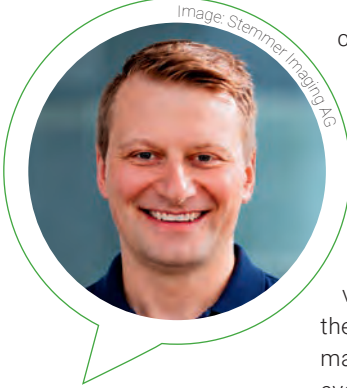
The Twincat Machine Learning Creator guides users through data upload, training, analysis, and download.

itself; instead, failure often stems from a lack of specialized expertise or incompatible components. Rather than offering mere individual building blocks, Beckhoff provides a comprehensive AI ecosystem that allows users to launch di-

them through the entire process of data upload, training, analysis, and download. In short, instead of getting bogged down in a debate about AI, users end up with a fully functional application.

▼ Hall 10 | Booth F10

AI is More than the Model



Simon Wölmüller,
Software Engineer,
Stemmer Imaging

AI is no longer merely an add-on or a nice-to-have to industrial machine vision; it is a key enabler of flexible, adaptive and intelligent vision systems. Foundation Models and Vision-Language Models

celerate development through synthetic data and rare-defect simulation, while edge and spatial AI bring visual intelligence closer to robotics.

However, successful AI vision is about more than the model. Reliable performance depends more than ever on the well-engineered interplay of cameras, optics, lighting, sensors, processing hardware, software and AI. Real-time processing, interfacing, cybersecurity, and data sovereignty must be designed from the start. A strong technology partner connects these technologies with system expertise, validation, service and support to create secure, scalable

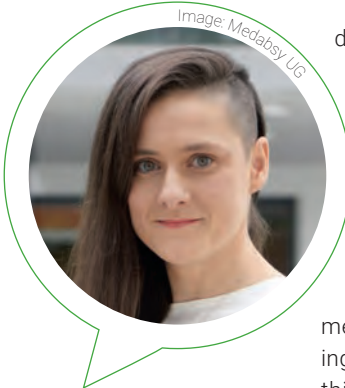
Successful AI vision is about more than the model.

(VLM), few- and zero-shot learning, and anomaly detection make complex applications easier to adapt with less labeled data. Generative AI can ac-

solutions – bridging AI innovation and reliable industrial applications.

▼ Hall 10 | Booth A81
▼ Hall 10 | Booth F16

Virtualised Machine Vision



Petra Gospodnetic,
CTO,
Medabsy

Synthetic data is only one piece of the picture. What really matters is the

data are no guarantee that an AI will learn to discern good from bad if the images are not showing the defect well enough. However, if you have the complete control of the imaging context, you can generate meaningful and highly varying datasets covering everything from everyday occurrence, to edge case scenarios. Virtual inspection planning gives you this power and we can see many players recognising its importance over pure synthetic data generation. Medabsy's goal is to democratise

Many players are recognising the importance of virtual inspection over pure synthetic data generation.

complete machine vision design process – virtualised. Will the camera fit the mounting hole? Will the lighting hide a defect or reveal it? Are the measurements accurate? How would a new material look under your existing vision system? These are the real questions driving vision industry crazy, and synthetic data is the cherry on top. But heaps of

machine vision. We let users control every aspect of machine vision system virtually, with intelligent assistance built directly into the process. Engineers can test, compare and validate a setup before a single component is ordered. Training data then becomes one useful output among many, rather than the starting point.

▼ Hall 8 | Booth E60.2

More Precision High performance laser scanner – precise, compact, intelligent

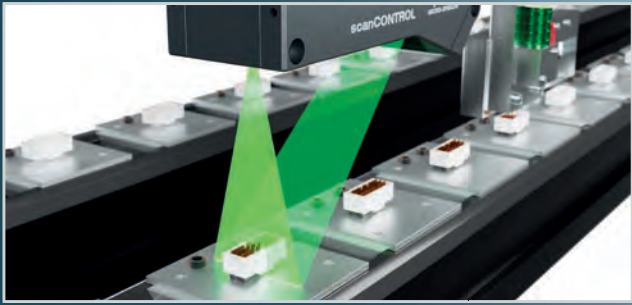


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Automated weld seam inspection



Pin inspection on connectors



micro-epsilon.com/scan

SPECTRAL IMAGING

High-Performance SWIR Lens

Excelitas introduces a new high-performance lens for the SWIR range. The Linos Rodagon 2.0/25 SWIR delivers focus-stable imaging performance across the entire 840-1,900nm wavelength range, eliminating the need for re-focusing. Designed for 1.1" sensors with an image circle of up to 18mm, it surpasses the imaging performance of conventional SWIR lenses while providing high resolution and strong contrast across the entire field of view. The f/2.0 aperture further enhances sensitivity.

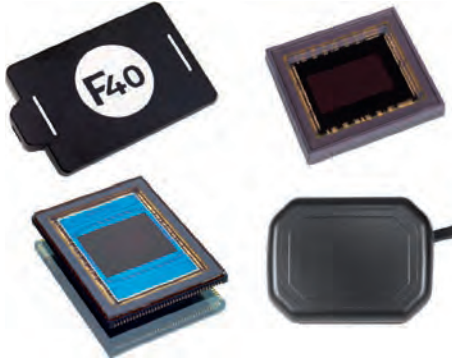
Excelitas Deutschland GmbH
▼ Hall 10 | Booth E51



Low-Noise CMOS Image Sensors

Hamamatsu Photonics is expanding its CMOS image sensor portfolio with products from Fairchild Imaging and is now marketing them specifically in Europe. The image sensors are suitable for demanding applications, such as medical and scientific imaging or space applications. They offer low noise of 0.25 e⁻ RMS. This enables imaging at very low photon counts, down to single-photon counting. A proprietary dual-gain architecture also ensures a high dynamic range.

Hamamatsu Photonics Deutschland GmbH
▼ Hall 10 | Booth C72.1



SWIR Line-Scan Cameras with Pixel Shift

JAI is expanding its Wave Series with two SWIR GigE Vision line-scan cameras featuring 12.5x12.5µm pixels. A peak quantum efficiency of up to 83 percent further enhances sensitivity. Both cameras offer flexible monochrome output at 8, 10, 12, and 14bits. The Wal-1001-GE features a 1x1,024-pixel sensor with a sensor width of 12.8mm and a line rate of up to 29kHz. The Wal-2001-GE offers a 2K output resolution and line rates of up to 40kHz. The camera utilizes a dual-line architecture (2x1,024pixels) with a 0.5-pixel offset, effectively increasing sampling density. Combined with operation at double the line rate, this results in an equivalent pixel size of 6.25x6.25µm and nearly doubles the resolution compared to 1K line-scan cameras.

JAI
▼ Hall 10 | Booth C18

2.5GigE Camera with NIR



Lucid Vision's Triton 2 TRT034S is a compact 3.2 MP 2.5GigE camera featuring Sony's IMX900 global-shutter CMOS sensor. With enhanced near-infrared sensitivity, the camera is well-suited for NIR-based inspection and recognition applications such as barcode reading, industrial automation, and robotics.

Lucid Vision Labs Inc
▼ Hall 10 | Booth E40

MWIR System Camera for Continuous Operation

The radiometrically calibrated ImageIR 6300 system camera from InfraTec is equipped with a latest-generation cooled focal-plane array photon detector. By combining the detector format of (640x512) IR pixels with a pixel pitch of 10µm, the camera delivers sharp images and, thanks to its snapshot mode, captures even moving objects without distortion or interruption. The detector can run at an operating temperature well above 80K. The service life of the integrated cooler is approximately 30,000 hours.

InfraTec GmbH
▼ Hall 8 | Booth E21



2K High-Speed Line-Scan SWIR Camera

New Imaging Technologies (NIT) LiSaSWIR 2048 v2 is a 2K SWIR high-speed line-scan camera. Powered by NIT's new NSC2301 In-GaAs sensor, this upgraded model delivers 2,048px and an 8µm pixel pitch. The camera supports line rates >110kHz, configurable exposure times, and both ITR and IWR readout modes. Key performance improvements of the sensor include enhanced uniformity, lower noise, reduced dark current, and refined gain control. Additional onboard features, such as Non-Uniformity Correction (NUC) and Bad Pixel Replacement (BPR), ensure reliable and consistent imaging performance.

New Imaging Technologies
▼ Hall 8 | Booth C42

LiSaSWIR 2048 v2
2K High-Speed Line-scan SWIR camera

2048x1px
8µm pitch

>110kHz
frame rate

<90e⁻
read-out noise

CameraLink interface
GenICam compliant

- Ad -

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SPECTRAL IMAGING

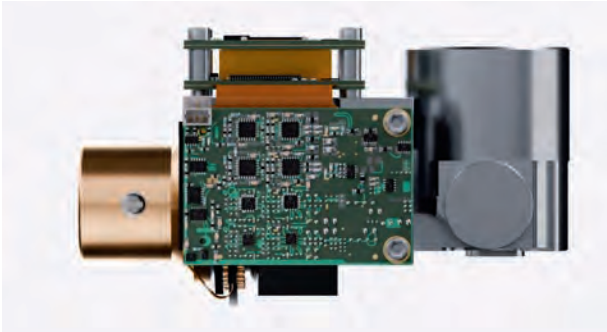
Compact SWIR Camera Module for Semiconductor Inspection

The NS-615A-GE SWIR camera module from Raytron Microelectronics, featuring area-scan technology, integrates InGaAs sensor technology into a compact industrial imaging platform. Designed for seamless OEM integration, the camera module enables the incorporation of SWIR imaging into automated test equipment, robotic inspection arms, and custom semiconductor test systems.

Raytron Microelectronics
▼ Hall 8 | Booth E19



eSWIR T2SL in VGA Resolution

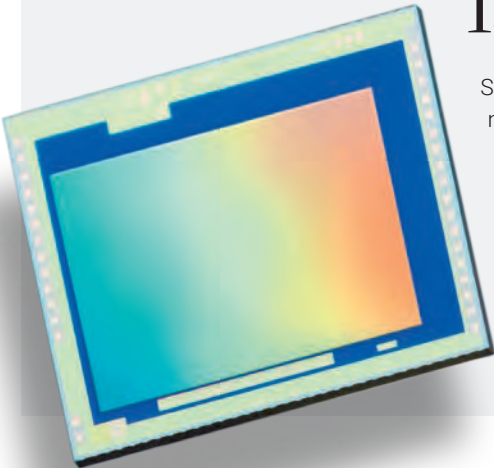


for high end eSWIR imaging. It is developed for integrating in compact Stirling IDDCAs for cameras requiring low SWaP and silent operation like the Owl eSWIR 640 from Raptor Photonics.

Irnova's Balder developed eSWIR T2SL technology at 640 VGA level. The detector is available in three formats: FPA, rotary and split linear IDDCA. The T2SL technology brings sensitivity, uniformity, stability and resolution to the full short-wave spectral range. Balder supports up to 300Hz frame rate and multiple readout modes, including windowing, snapshot, ITR and IWR

Irnova AB
▼ Hall 10 | Booth H15

Multispectral Sensor with 15 Channels



Spectricity introduce the first truly miniaturized, mass-manufacturable mobile multispectral image sensor. With a spectral range from 400 to 700nm it offers a 15-channel high spectral resolution with 34nm average FWHM. With 864 x 648pixels SVGA spatial resolution and a frame rate of 30fps is offers high stability due to full CMOS integration.

Spectricity
▼ Hall 10 | Booth G63

Smart IR Camera for Monitoring & Analysis



The IRSX-2 from AT Sensors combines intelligent temperature monitoring and analysis within a fully stand-alone IR camera. Thanks to plug&play integration and web-based configuration, the IP67-rated camera is ready for operation in no time. It connects directly to machine controls and system visualization interfaces via Ethernet and IoT protocols

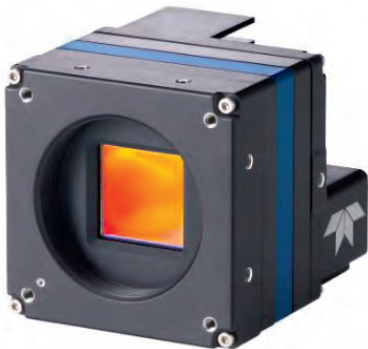
such as Modbus and REST API. The Smart Processing App allows multiple product-specific jobs or inspection plans to be stored on the camera, with distinct regions of interest (ROIs) defined for each job. At launch, models with 640x512 pixel resolution and frame rates of 60, 30, or 9Hz are available.

AT Sensors
▼ Hall 10 | Booth E55

67MP CLHS Scientific Camera

Teledyne Dalsa announced the 67MP Falcon4-CLHS M8200-Scientific camera. Built on a customized version of Teledyne e2v's Emerald 67MP CMOS, the camera delivers approximately 3 e⁻ read noise, up to 64 dB dynamic range, 70% quantum efficiency at 550nm, up to 65fps, and pixel-level factory calibration to support demanding low-light and quantitative imaging applications.

Teledyne Dalsa
▼ Hall 8 | Booth B10



Handheld Viewer for Short-Wave Infrared

FJW Optical Systems has redesigned the Find-R-Scope SWIR-View. This portable, handheld SWIR viewer has a wavelength range of 400–1,700nm (VIS-SWIR). With InGaAs imaging, an integrated display, digital video output, USB-C charging, and a specially developed SWIR lens, it delivers high-quality images in a compact, rugged design. This makes it suitable for applications such as semiconductor inspection, laser visualization, material analysis, and agriculture.

FJW Optical Systems
▼ Hall 10 | Booth F52

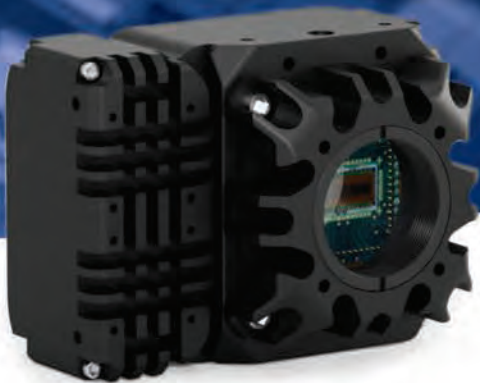
LiSaSWIR 2048 v2

Line-scan SWIR InGaAs cameras

2048x1_{px}
8µm pitch

>110k_{Hz}
full frame

<90_{e-}
readout noise



CameraLink interface
GenICam compliant

APPLICATIONS
Semiconductor Inspection
Hot Glass Quality Control
Food/ Waste Sorting
OCT/Spectroscopy

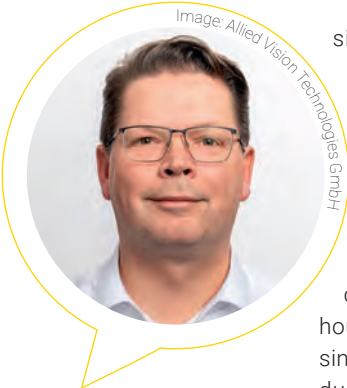


Booth
#8C42
VISION Stuttgart

0.9µm - 1.7µm wavelength
SWIR Sensors + Cameras
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SPECTRAL IMAGING

Actionable Spectral Data at the Edge



Henning Tiarks
CPO
Allied Vision

Spectral imaging is rapidly moving from specialized labs into mainstream industrial inspection. The biggest trend we see is the shift toward actionable spectral data at the edge. Customers no longer want to

sion is expanding the Smart Camera Alecs with VSWIR sensitivity: Alecs VSWIR integrates Sony's SenSWIR sensor technology (400–1,700nm) with Nvidia Jetson Orin processing in a rugged IP67 housing. By combining sensing and inference in one industrial device, we reduce system complexity, validation effort, and total cost. Flexible sensor options from 0.3 to 5.3MP enable right-sized performance for high-throughput tasks like plastics recycling, moisture and bruise detection in food, and agricultural inspection, especially where spectral insight must hold up in harsh, dusty, wet, or washdown-adjacent environments. With mat-

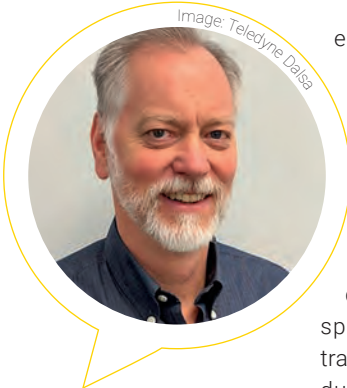
Customers no longer want to stream VSWIR images to a separate PC and wait for offline analysis.

stream VSWIR images to a separate PC and wait for offline analysis. They need deterministic, real-time decisions directly on the machine. That's why Allied Vi-

ching SWIR optics, accessories, and eVision libraries, spectral imaging becomes a deployable solution, not just a dataset.

▼ Hall 10 | Booth F30

Practical for Real-World Applications



Dale Deering
Vice President of
Product Marketing
Teledyne Imaging

Spectral imaging is becoming an increasingly valuable tool in machine vi-

enabling the detection of material composition, contamination, moisture content, and product variations that are often invisible to conventional cameras. Cameras such as Teledyne's Kaleido hyperspectral camera demonstrate how higher-speed, production-ready systems are making spectral imaging more practical for real-world applications, from food inspection and recycling to pharmaceutical and agricultural processing. Another important trend is the integration of spectral data with AI and con-

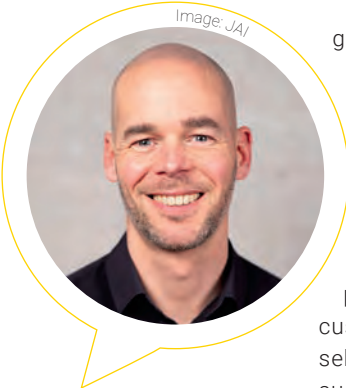
An important trend is the integration of spectral data with AI and conventional 2D and 3D vision systems.

sion as manufacturers seek to identify not only how an object looks, but also the material of which it is made. Advances in sensor technology are bringing hyperspectral imaging out of research labs and into industrial inspection systems,

ventional 2D and 3D vision systems, allowing manufacturers to combine appearance, shape, and material information to make more informed decisions, improve quality control, and reduce waste.

▼ Hall 8 | Booth B10

Focusing on Selected Spectral Bands



James Cameron
Global Segment Director,
Food
JAI

The machine vision market today offers much more than simply selecting an image sensor for a specific wavelength range. Hy-

generates large volumes of data and requires significant processing power, integration effort, and expertise. For many industrial applications, multispectral imaging offers a more practical approach. By focusing on a few carefully selected spectral bands such as RGB, NIR, or SWIR, it can provide the information needed to solve specific inspection challenges efficiently. At JAI, we see this trend especially in the food industry, where combining spectral information enables machine builders to detect subtle differences related to both external and internal product quality

By focusing on a few carefully selected spectral bands it can provide the information needed to solve specific inspection challenges efficiently.

perspectral imaging has opened new possibilities by capturing many narrow spectral bands, but it also

at high speeds, while keeping system complexity and cost under control.

▼ Hall 10 | Booth C18

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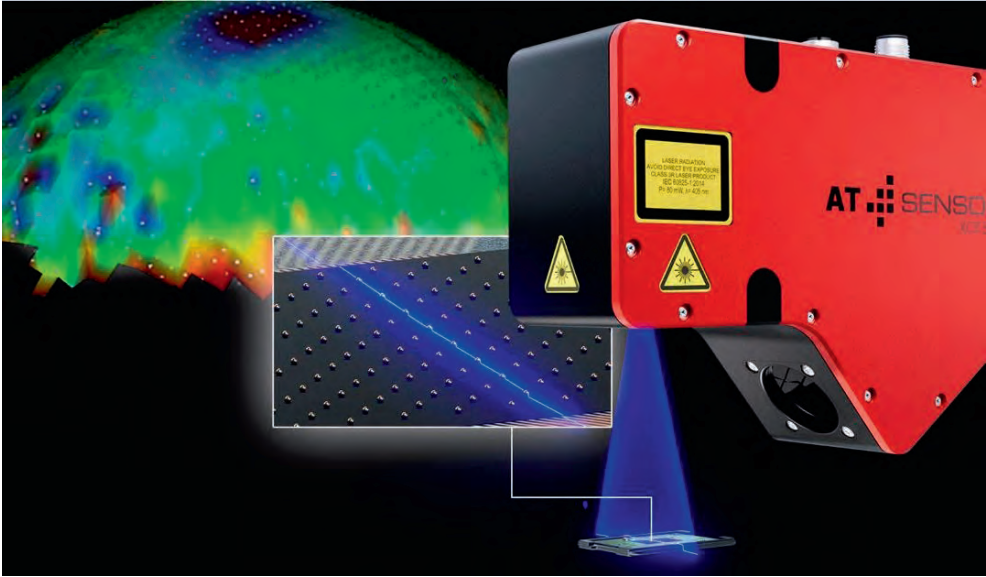
Portable Photometric Stereo Inspection

AIT Austrian Institute for Technology Photodex is the first portable inspection system to combine motion-robust photometric stereo, high-resolution surface inspection, CAD-based defect localization and AI-ready annotation in a single industrial solution. It enables continuous handheld and robotic surface inspection while automatically linking detected defects to the digital twin, creating a seamless workflow for digital quality assurance.

AIT Austrian Institute of Technology GmbH
▼ Hall 8 | Booth C50



3D Sensor with 7.8µm X-Axis Resolution



AT Sensors introduces the C7 XCS 3070 3D laser profile sensor which boasts an X-axis resolution of 7.8µm within a 24mm field of view, enabling it to capture even the smallest surface structures. As the first 3D laser profile sensor in the

XCS series, it is based on the newly developed C7 platform with an Nbase-T interface and transmits data at up to 5Gbit/s. In addition, the sensor is also available in the Warp variant with a profile rate of up to 94kHz. The thin and homo-

geneous 405nm laser line (laser class 3R) is primarily responsible for the extreme precision, enabling a highly accurate Z-resolution of 0.13µm.

AT Sensors
▼ Hall 10 | Booth E55

Inline Inspection up to 1,500mm/s

Image Access' WideScan line scan bars are precision-engineered components for inline inspection and scanning tasks, designed to integrate seamlessly into custom systems such as industrial production lines or single-pass printers. Available in sizes from 305 to 3,050mm and with either CIS or CCD technology, they deliver high-speed,



high-resolution performance in a compact, plug&play design with speeds up to 1,500mm/s (grayscale). UV and IR lighting options extend the capabilities of selected models.

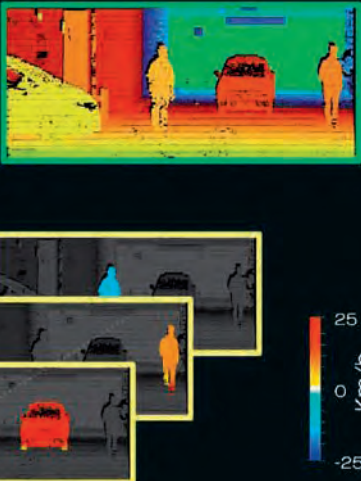
Image Access GmbH
▼ Hall 10 | Booth C84

4D On-Chip Sensing

Lidwave's patented Finite Coherent Ranging (FCR) technology reshapes automation, delivering unparalleled on-chip precision for advanced machine vision. It delivers per-pixel Instantaneous Velocity, adding a critical layer of information for real-time segmentation in safety-sensitive scenarios. The new technology generates millions of precise depth points per second, building accurate, detailed 3D maps over hundreds of meters.

Lidwave Ltd.
▼ Hall 8 | Booth E60.14

4D Data
(X, Y, Z)
+ Velocity



AI-Powered Inline Inspection



With the VS-G controller and the VS platform, Keyence provides AI-powered vision systems for in-line inspection and robotics. The controller features up to 32 processor cores with separate DSP, CPU, and AI engine cores, as well as up to 64GB of RAM. The VS All-in-One smart camera complements the controller to form a unified platform – two variants are available: models with ZoomTrax offering resolutions of up to 15MP, and models with a C-mount connector offering resolutions of up to 25MP. The company developed the IV4 series

for presence and difference checks, while the SR-X series and the ST-BR1500 provide specialized solutions for reading codes, even under difficult conditions or on the undersides of packages. The IV4 sensor can perform 250 checks per second. The SR-X wide-angle CMOS sensor features 2.3MP and 6 CPU cores and draws on a database of 100,000 reference images. The ST-BR1500 has a frame rate of up to 3,200Hz and captures up to 36 lines of pixels per frame.

Keyence Deutschland GmbH
▼ Hall 10 | Booth E20

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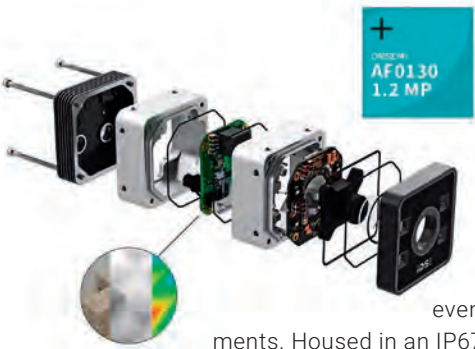
VoxelSensors presents the LyraCam P, its latest advancements to its patented Spaes (Single Photon Active Event Sensor) technology and an intelligent



dynamic triangulation system (Resolution 300x150) for XR and robotics. Unlike traditional vision systems, it integrates active event sensing with high-speed imaging and scanning to deliver a synchronized, multimodal dataset. This makes it capable of operating in environments that baffle boothard sensors, such as high-glare settings, dusty conditions, or complex, non-cooperative surfaces. Key capabilities are an ultra-low power and low latency for highly precise 2D/3D world perception, robust performance across indoor and outdoor lighting, and a continuous data stream. Paired with a laser beam scanning unit (Gemini B) the system will be available at Q4/26.

VoxelSensors
Hall 10 | Booth F36

1.2MP ToF Camera for
Dynamic Environments



The Nion time-of-flight camera from IDS combines high spatial resolution – thanks to the 1.2MP AF0130 sensor from onsemi's Hyperlux ID family – with reliable depth accuracy, delivering detailed 3D data even in challenging environments. Housed in an IP67-rated enclosure, the camera provides stable depth information even in direct sunlight. With 1.2MP, it offers up to four times the resolution of many other ToF cameras with VGA sensors. This results in finer object resolution in the 3D image – edges appear clearer, and smaller objects can be detected and measured more reliably – even in dynamic environments with moving objects.

IDS Imaging Development Systems GmbH
Hall 8 | Booth C60



High-End Laser Sensor with 150kHz

The OptoNCDT 5500 laser triangulation sensor from Micro-Epsilon now achieves a measurement rate of up to 150kHz across its entire measuring range, making it one of the fastest laser triangulation sensors in the world. Improved reproducibility of less than 0.04µm ensures maximum precision, while ambient light resistance of up to 200,000lux and temperature stability of up to ±0.008% d.M./K guarantee reliable measurements. The series is now also available with a 50mm measuring range and new fieldbus options (Profinet IRT, Etherat).

Micro-Epsilon Messtechnik GmbH & Co. KG
Hall 10 | Booth C30

Surface Measurement
via Reflection Patterns

At the heart of Opto's solino surface measurement system lies a computer-aided imaging approach. By precisely controlling the interaction of light with a surface, the system captures the object's optical fingerprint. Internally, 64 LEDs illuminate the object from various directions, while a 20MP camera records each illumination angle individually. The result is a multidimensional reflection map. By analyzing these reflection patterns (BRDF profiles), the system detects microscopic imperfections, roughness, contaminants, and other anomalies.



Opto GmbH
Hall 10 | Booth C46

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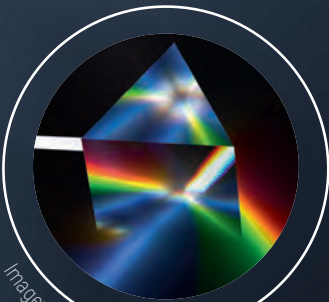
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Point Sensor for Thickness Measurements

Precitec's Enovasense point sensor enables fast, non-contact and non-destructive coating thickness measurements with ultracompact, easy-to-integrate probes. It precisely measures a wide variety of coatings in different thicknesses on nearly any substrate. The sensor is highly vibration-insensitive, offers a generous working-distance tolerance, and provides accurate results even on components with complex shapes and curvatures.



Precitec Optronik GmbH
▼ Hall 10 | Booth G58

Compact 3D Stereo Camera System

Basler is expanding its 3D portfolio with the Stereo mini – a compact, lightweight, and cost-efficient camera designed specifically for robotics and logistics applications. With base-lines of 50 and 95mm, the camera is suitable for short- to medium-range depth sensing. Depending on the model, USB 3.0, GigE, or – in the future – GMSL interfaces are available. Factory-calibrated stereo geometry ensures reliable depth acquisition and minimizes setup effort. Thanks to integration via the pylon SDK, the camera can be quickly incorporated into existing vision systems.



Basler AG
▼ Hall 8 | Booth D50

Manual Image Processing Measuring Device

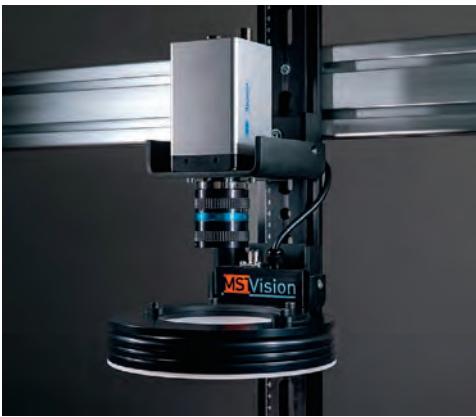
QM-Fit is an intelligent, compact manual image processing measuring device with intuitive touchscreen operation from Mitutoyo. It enables automatic geometry recognition and automatic edge detection, and displays the measurement results as a visual overlay directly on the workpiece image. In addition, measurement programs can be recorded and played back. The device features telecentric optics with a 20MP color camera capable of up to 100x magnification. The field of view is 115x75mm, and the depth of field is 36mm.



Mitutoyo Deutschland GmbH
▼ Hall 10 | Booth C80

Generating Photometric Stereo Result Images

PS Advanced from MSTVision is an integrated system solution for directly generating photometric stereo images from four individual matrix camera images, including a height map. Efficient processing directly on the GPU minimizes the CPU load, and the GenICam implementation allows for easy access to the image data. Typical problems caused by the time offset in image acquisition are compensated for during preprocessing by the MSTVision algorithm.



MSTVision GmbH
▼ Hall 10 | Booth G70

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3D VISION

Application-Specific Configuration



Daniel Seiler,
CEO,
AT Sensors

While high speed and performance remain in de-

lution-oriented components and showcase a wide range of real-world applications implemented for our customers using our profile sensors.

A second trend is also relevant: application-specific configuration to perfectly tailor sensors to each use case. Varying measurement ranges, resolutions, and installation constraints require flexible components. We have significantly expanded our modular system to meet this need, making it possible to configure

If a problem cannot be solved using our modular system, it cannot be effectively solved using laser triangulation.

mand, 3D sensors are no longer sold based on specifications alone; customers want to know how their specific measurement, inspection, or automation tasks can be reliably solved. That is why, at AT, we develop so-

the right profile sensor for any application. To put it boldly: if a problem cannot be solved using our modular system, it cannot be effectively solved using laser triangulation.

▼ Hall 10 | Booth E55

Sufficient Laser Power for Triangulation



Tobias Bürkle,
Head of Sales,
Z-Laser

The inspection of roads and railways is undergoing a quiet but consequential transformation. Across the industry, system designers are pushing measurement speeds to levels that were impractical just a few years ago. The catalyst is a

measurement speed in mind. Shorter camera exposure times mean less light per scan line, which translates directly into weaker signals and noisier point clouds. For surface defect detection on asphalt, rails or pantographs profiling at line speed, that's not a marginal trade off. It's a data quality problem that compounds through the entire inspection.

What this trend ultimately demands is a rethink of what "sufficient" laser power means in 2D/3D triangulation. The ZQ1 from Z-Laser was developed with exactly this in mind. High output power and a precisely homogeneous line profile give system integrators the signal quality they need to keep pace with

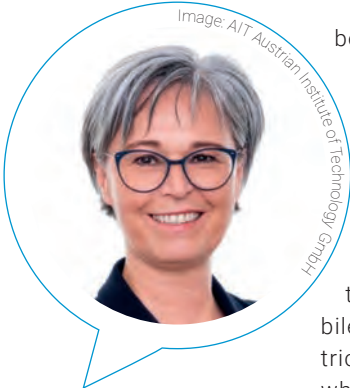
Infrastructure inspection is moving fast. The laser source needs to move with it.

new generation of high-speed industrial cameras. But as frame rates climb, a different topic comes into focus: the laser. Most line laser sources were not designed with this

camera technology without sacrificing measurement reliability. Infrastructure inspection is moving fast. The laser source needs to move with it.

▼ Hall 10 | Booth C50

High Resolution, Even While in Motion



Petra Thanner,
Thematic Coordinator
High-Performance Vision,
AIT Austrian Institute of
Technology GmbH

With Photodex, we are introducing a mobile system

be guided over the surface – either manually or by a robot. At the same time, the system accurately assigns detected defects to their specific locations on the digital twin. The advantage: Mobile, high-speed photometric stereo – performed while in motion – strategically employs multiple lighting directions. By analyzing varying brightness patterns, it determines surface normals on a pixel-by-pixel basis, thereby revealing the finest local changes in inclination and structure. This makes even minute scratches, dents, edges, or sur-

A key feature of Photodex is that the inspection system does not need to remain stationary during image acquisition.

for high-resolution surface inspection using photometric stereo. A key feature is that the inspection system does not need to remain stationary during image acquisition; instead, it can

face defects visible – features that are difficult to detect using conventional intensity images or even the best available purely geometric 3D scans.

▼ Hall 8 | Booth C50

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Basler AG	11	JAI A/S	13	New Imaging Technologies (NIT)	25	Smart Vision Lights	26
Emergent Vision Technologies	3	Landesmesse Stuttgart GmbH & Co. KG	31	Optonic GmbH	29	STMicroelectronics International NV	24
Fujifilm Germany GmbH	19	MBJ Imaging GmbH	7	PHYTEC Messtechnik GmbH	22	Vision & Control GmbH	21
IDS Imaging Development Systems GmbH	17	Micro-Epsilon Messtechnik GmbH & Co. KG	23	Precitec-Optronik GmbH	27	Vision Components GmbH	9
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