

PRESS RELEASE

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2025 Autumn IVSM Meeting Concludes Successfully in Haikou, China

Barcelona; December 3rd, 2025. The 2025 Autumn International Vision Standards Meeting (IVSM) was successfully held in Haikou, Hainan Province from November 3 to 7. Co-hosted by the China Machine Vision Union (CMVU) and Hainan University, the meeting emerged as a pivotal platform for global exchanges in the machine vision standards field, attracting over 120 R&D engineers from around the world.

The meeting featured nine sessions, including regular G3 standard meetings such as CoaXPress, USB3 VISION, GigE VISION, OPC Machine Vision and GenICam, as well as additional sessions on Cable and Connector Working Group Meeting and China Machine Vision Standards Meeting. The Plugfest (Standard Compliance and Interoperability Testing) session on Wednesday drew 55 categories of products from 28 domestic and foreign machine vision companies to participate in the testing.

During the meeting, the **CoaXPress Working Group** updated the technical part of CXP3.0 version. Currently, the maximum speed of copper transmission can reach to 25Gbps, and to be compatible with optical fiber transmission, part of the nGMII protocol content in the link layer integration has been added to the CXP3.0 protocol as well. The **USB3 VISION Working Group** released the official compliance test plan for USB cable extenders and will further

refine and update the verification software tools for U3V products. The **GigE VISION Working Group** plans to officially release the GEV3.0 version by the end of 2025. The new standard introduces the GenDC over RoCEv2 serial transmission protocol, which enables direct transmission of image data from the NIC to the application buffer, significantly reducing CPU usage and being particularly suitable for lossless transmission of high-throughput data above 25G. The **GenICam Working Group** has released the GenICam package 2025.10, containing GenApi version 3.5, this fall, and the working group plans to release SFNC Ver. 2.8 and GenDC Ver. 1.2 by the end of 2025. A new standard for a generic feature access API (working title: GenFeA) is under development. The **OPC Machine Vision Working Group** introduced the latest progress of the OPC MV Part 2 and demonstrated the demo system. Meanwhile, company from China shared successful stories of OPC UA and OPC MV in China's new energy industry. The **Cable and Connector Working Group** hosted by JIIA introduced the electrical compliance test for HD-BNC (Micro BNC) connector and CXP cables and the evaluation test for moveable MV cables. The concurrent **China Machine Vision Standard Meeting** also invited international technical experts to participate in discussions, focusing on new test requirements for 2D cameras, characterization for 3D cameras, and performance evaluation standards for industrial AI detection algorithms.

At the gala dinner, the standard managers of A3, JIIA and VDMA delivered speeches to congratulate the successful holding of the meeting. Ms. Isabel YANG, Vice President of Luster and Vice Chairman of CMVU, stated that we have witnessed the complete process of machine vision technology from germination to evolution and the market pattern from fluctuations to growth. As a witness who has worked within this industry for nearly 30 years, we deeply understand that building and unifying technical standards globally is not only an inevitable choice for the industry to mature but also a solid foundation for promoting global collaboration and achieving common technological progress. Pan JIN, Chairman of CMVU, emphasized that CMVU will continue to advance the process of machine vision

standardization and encourage Chinese member enterprises to actively participate in G3 standardization activities.

The next IVSM meeting will be organized by the European Machine Vision Association (EMVA) and held in Prague, the capital of the Czech Republic, from April 13 to 17, 2026. Registration is already open and technical experts in the relevant machine vision field are welcome to register actively.

About IVSM and G3

The machine vision standards community meets at the International Vision Standards Meeting (IVSM) held in both spring and fall each year, rotating across America, Europe, and Asia, and hosted by a different member company. During each week-long event, committees representing each of the standards discuss progress, road maps and collaboration.

Under the so-called 'G3 agreement' the leading machine vision associations cooperate in the development and dissemination of machine vision standards. Through this cooperation between A3 – Association For Advancing Automation (North America), CMVU – China Machine Vision Union, EMVA – European Machine Vision Association, JIIA – Japan Industrial Imaging Association and VDMA – German Mechanical and Plant Engineering Association, the members of all mentioned associations have access to the various technical working groups of standards hosted by any of the G3 organizations. Continued cooperation is established through the G3 committee which consists equally of representatives from all five industry associations. The G3 cooperation agreement enshrines the principles of openness, transparency, and consensus in standards development.

About EMVA

Founded in 2003, the European Machine Vision Association (EMVA) is a non-for-profit and non-commercial association representing the Machine Vision industry in Europe that is open for all types of organizations having a stake in machine vision, computer vision, embedded vision or imaging technologies: manufacturers, system and machine builders, integrators, distributors, consultancies, research organizations and academia. The EMVA

hosts four international vision standards, and all members – as the 100% owners of the association – benefit from the dedicated networking, standardization, and cooperation activities of the EMVA. www.emva.org.