

Compatibility for cameras and terminals

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Isobus terminal with camera plug contact (Photo: AEF)

THE SUCCESS OF THE AGRICULTURAL INDUSTRY ELECTRONICS FOUNDATION (AEF) related to Isobus has led to additional subject areas being submitted to the association. One such topic is the incompatibility of camera systems with each other and with Isobus Universal Terminals (UT) or others in cab displays. The Camera Systems project team set up by the AEF has now solved this problem and has created a proposed standard for an analog interface.

The Camera Systems team has prepared an international AEF guideline, which has already been implemented by some agricultural machinery manufacturers. As a result, users can connect with Isobus terminals or other displays regardless of the supplier or brand. This provides greater flexibility during the selection process, since users can choose any combination of tractors and implements. The simplification will also mean that more camera systems can be used. This, in turn, will improve the safety on and around tractors and implements and thus reduce the frequency of accidents when handling agricultural machinery.

The proposed standard of the project group – to which numerous experts from international manufacturers of tractors, implements, camera systems, and plug contacts belong – describes a video interface for analog systems. In the second phase, a solution for digital systems will be drawn up.

About the AEF

The AEF was established as a “round table” of the agriculture industry by seven leading companies and two trade associations. The AEF makes the Isobus technology defined in ISO 11783 come to life. Isobus standardizes the communication between tractors and implements but also the data transfer between mobile systems and farm management systems ensuring compatibility.

The voluntary association of more than 190 companies from the agriculture industry and their suppliers has recently introduced a Conformance Test for the AEF Isobus Certification of tractors and implements. The results of the tests will be stored in the freely accessible [AEF Isobus database](#), which can be used by customers and dealers to check the compatibility of machinery. Also, a certification label has been issued, which marks AEF-certified products. The AEF’s success with Isobus has led to submission of additional subject areas to the association. Examples of these additional subject areas requiring certification are electric drives, camera systems, and Farm Management Information Systems (FMIS).