

AVAD5

High-performance measurement and video system

Now with video streaming, expandable to up to four cameras.

Recording warning signals from driver assistance systems

The AVAD5 combines robust industrial hardware with state-of-the-art camera-, CAN/CAN-FD-, and I/O-technology. The system enables high-precision optical measurements, flexible video recording, and powerful bus analysis in a compact, mobile setup.

New: Features:

- Robust double-shell housing (stainless steel & aluminum)
- 12–24V DC wide-range voltage input
- Up to 4 cameras in parallel at 100 Hz (Full HD)
- CAN / CAN-FD with bit rate switching up to 5 Mbit/s
- High-speed GPIO with response times from to 3 μ s
- Parallel measurement and video recording (MP4 / AVI)
- Measurement data overlay in video (hardcoded or upcoming as subtitles)
- Modern HTML5 web interface without ActiveX

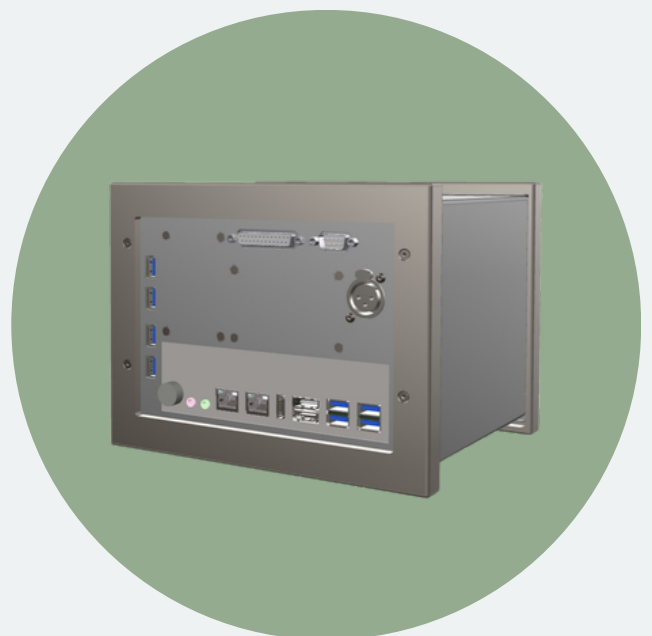


Ideal for:

- Autonomous and ADAS vehicle development
- Acoustic and optical testing
- CAN/CAN-FD bus analysis and validation
- Test and trial centers
- Mobile measurement applications

Hardware Specifications

Casing	Double shell made of stainless steel and aluminum, splash protection, actively cooled
Power Supply	12–24V DC
Cameras	Up to 4x USB3.0, 1920x1080, up to 150 FPS, KOWA lens 16mm focal length
Ethernet	2x Gigabit (DHCP + fixed IP)
Video formats	MP4, AVI
CAN	CAN, CAN-FD ISO & Non-ISO, up to 5 Mbit/s, 64 bytes
Digital I/O	4x DI, 4x DO, 2x GP DI, 2x GP DO, 2x GPIO
GPIO ResponseTime	Up to a minimum of 3 μ s, depending on the setup
Software	Windows 10, HTML5 Webinterface
FTP Server	Integrated, configurable
Audio	Line Out, Microphone In
Optional	Isofix mount, 19" rack installation (coming soon)



Software Specifications

Reference object	1x freely selectable reference object in the camera image per camera
Sample search	1x freely selectable pattern, optionally position-dependent on the reference object
Color search	2x freely selectable colors, optionally position-dependent on the reference object
Search area	1x freely definable search area for color search
Logic	Color and pattern search can be combined using AND/OR
Status evaluation	Recording of the OFF state for Fail / Warning / Pass
Acoustic detection	2x freely selectable tones with unlimited number of frequencies per tone
Frequency selection	Selection of acoustic measurement frequencies via recorded signal tones
Signal Output	Freely definable data packets via CAN, Ethernet, and digital outputs (including latency times relative to frame clock)
CAN transmission frequency	100 / 200 / 500 / 1000 Hz or user-specific
CAN output	Time- or event-driven
CAN baud rate	Extended baud rates possible (e.g., 666.67 kbaud)
Configuration	Via any web browser
Image-based setup	Configuration via live image, still image or reference images
Profile management	Configuration via live image, still image, or reference images
Optional	Increase in refresh rate up to 300 Hz (max. 3.3 ms latency, per camera)