



vicanlog pro
powered by **zuragon**

What is
Vicanlog pro?

zuragon

Engineering excellence is our motto

Zuragon was founded by a team committed to a disruptive change of the way the industry works with development and test systems for Autonomous Driving (AD) and Advanced driver assistance systems (ADAS). By introducing a consistent family of products reutilizing the power of multi-OS design, ADAS knowledge and open source computer vision technology, hand in hand with established standard technologies, Zuragon can offer a suite of products that assists in ADAS development from concept to code on the road.

www.zuragon.com



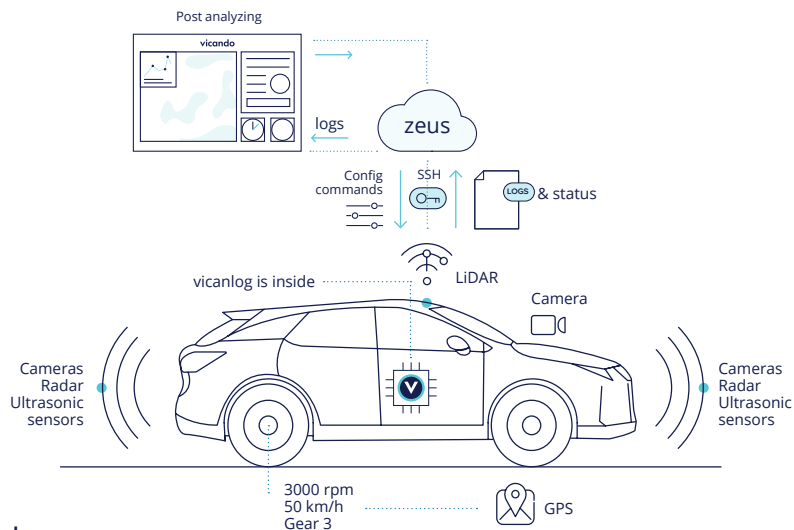
Vicanlog pro is a powerful and flexible ADAS/AD logger used to acquire data from multiple sensors and record it to the disk. It is designed not only to record but also to easily replay and analyse your recordings in to a HIL system or directly as stimuli to the ECU under the development.

The logging system records all data from various sensors and time stamps all the data with an universal application level timestamp. With the help of the unique patented time synchronization system , it is possible to control the replay with offset in time for various sensor data. The recorded data in Vicanlog can also be used to later analysed and visualized with various GUI components, such as graphs, traces etc. in Vicando at the office. It is also possible to run your own customized components developed with our SDK while logging and replaying. The unique logging system logs all data into separate sensor specific log files for improving search efficiency during post analysing process.

If needed, recorded data can also be exported to other applications in various standardized formats. **Vicanlog pro** supports most commonly used sensor brands for ADAS and AD development. It is also possible to daisy chain several units to increase i.e. the number of cameras upto to 24. The writing speed to the disk depends on the interface type of the SSD. ViCANlog also integrates to Zuragon's smart cloud solution Zeus where log files can be set OTA, trigger conditions and software upgrades can be transfered OTA and a direct stream of what is going on inside the logger at a specific moment is enabled to a direct access OTA to the logger. It is pre-equipped with modem and a high precision GPS and can be, through its versatile hardware concept ViCANlog can be configured to cover more or less every possible hardware scenario.



Vicanlog data collection



Vicanlog pro highlights

01. Covers all vehicles busses, CAN-HS/FD, LIN, FlexRay, BroadRRReach, Ethernet.
02. Covers all types of video stream, LVDS, Ethernet, USB.
03. Recording of auxiliaries, sound, position, I/O, Analogue.
04. Highly configurable hardware to suit the need of modern development.
05. Powerful trigger machine enabling smart logging of scenes that contains only necessary and valuable data.
06. Event triggering is possible on all connected sensor data.
07. Instant notification and log files can be sent directly to Zeus on interesting scenes recording .
08. Remote OTA logging and trigger condition configuration.
09. Powerful QML & JavaScript scripting supported.
10. Built in GDPR safe algorithms to mask vehicle license plates and pedestrian faces in the log.
11. Cropping of large log files directly on the disk. Enables transfer of important file fragments at low cost and high speed.
12. Massive computing power with Intel Xeon and Core i7/i5.
13. Up to 128 GB RAM to run powerful applications.
14. Removable storage unit for data logging
15. Supports 10 Gb Ethernet for highband recording.
16. Time synchronization based on IEEE Std 802.1AS for synchronous recording and clustering of systems.
17. Extended operating temperature range.
18. GPIO panel for tagging and triggers.
19. Extension for PCIe plugin cards for CAN/CANFD/FlexRay/10 Gigabit ethernet and LVDS cameras.

Technical specifications

System

Processor: Intel® Xeon®/Core™ i7/i5 Processor
Chipset: Intel® C246
BIOS: AMI
SIO: IT8786E
Memory: 4 DDR4 2666MHz SO-DIMM, up to 128GB (ECC/Non-ECC)

I/O Interface

Serial: 4 COM RS-232/422/485 (ESD 8KV)
USB: 6 USB 3.1 Gen 2 (External) / 1 USB 2.0 (Internal)
Isolated DIO: 32 Isolated DIO : 16 DI, 16 DO
LED: Power, HDD, Wireless
SIM Card: 2 External SIM Card Socket

Expansion

Mini PCIe: 2 Full-size for PCIe/USB/External SIM Card/mSATA
M.2: 1 M.2 Key E Socket
PCIe: 1 PCIe x8, 3 PCIe x4

Graphics

Graphics Processor: Intel® UHD Graphics 630
Interface: 1 DVI-I : Up to 1920 x 1200 @60Hz
2 DisplayPort : Up to 4096 x 2304 @60Hz

Storage

SATA: 4 SATA III (6Gbps) support S/W RAID 0, 1, 5, 10
mSATA: 2 SATA III (Mini PCIe Type, 6Gbps)
Storage Device: · 4 Front-access 2.5" SSD/HDD Tray
1 M.2 Key M Socket (Internal)

Audio

Audio Codec: Realtek ALC892, 5.1 Channel HD Audio
Audio Interface: 1 Mic-in, 1 Line-out

Ethernet

LAN 1: Intel® I219LM GigE LAN supports iAMT 12.0
LAN 2: Intel® I210 GigE LAN

Power

Power Input: 6V to 36V, DC-in
Power Interface: 3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control: 16 Mode (Internal)
Remote Switch: 3-pin Terminal Block Surge
Protection: Up to 80V/1 ms Transient Power

Others

TPM: Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer: Reset : 1 to 255 sec./min. per step
Smart Management: Wake on LAN, PXE supported
HW Monitor: Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Software Support

OS: Linux(Ubuntu 18.04.4 LTS pre-installed)

Mechanical

Dimensions: 250.4mm x 210.0mm x 172.0mm (9.86" x 8.27" x 6.77")
Weight: 5.0 kg (11.0 lb)
Mounting: Wallmount by mounting bracket

Environment

Operating Temperature:
35W TDP CPU : -40°C to 75°C (-40°F to 167°F)
65W TDP CPU : -40°C to 55°C (-4°F to 131°F)
80W TDP CPU : -40°C to 45°C (-4°F to 113°F)
Storage Temperature: -40°C to 85°C (-40°F to 185°F)
Humidity: 5% to 95% Humidity, non-condensing
Relative Humidity: 95% @ 75°C
Shock: · IEC 60068-2-27 / SSD : 50G @ wallmount, Half-sine, 11 ms
Vibration: IEC 60068-2-64 / SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC: CE, FCC, EN50155, EN50121-3-2